+GF+

Product range

PVC-U

Piping systems for industrial applications



Table of contents

Cover	1
PVC-U metric	5
PVC-U BS / JIS	317
PVC-U silicon free	443
PVC-U Electric and pneumatic actuators	489
PVC-U Solvent cements and tools	501
PVC-U Spare parts	507
Sales conditions	559
Back cover	560

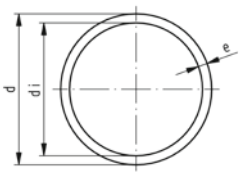
PVC-U metric		Page
	Pipes	8
	Fittings	13
	Adaptor fittings	24
	Threaded fittings	31
	Unions	34
	Seals	53
	Flange adaptors and flanges	56
	Branch and tapping saddles	66
	Saddles	68
	Installation fittings	69
	Ball valves type 546 Pro	72
	Linear ball valve type 546 Pro	80
	Accessory for Ball valves type 546 Pro	82
	Ball valves type 542	89
	Ball valves electric type 127	100
	Ball valves electric type 179	108
	Ball valves type 182 PVC-U	113

PVC-U metric		Page
	Ball valves electric type 104	113
	PVC-U ball valves type 546 Pro with PPA	115
	3-Way ball valves type 543 Pro	129
	3-Way ball valves type 543 Pro P	135
	3-Way ball valves electric type 167	144
	3-Way ball valves electric type 170	150
	Metering ball valves type 523 Pro	152
	Laboratory ball valves type 522	155
	Diaphragm valves	156
	Diaphragm valves pneumatic	163
	Diaphragm valves electric	182
	Butterfly valves type 567	187
	Butterfly valves electric type 145	191
	Butterfly valves pneumatic type 240	195
	Lugstyle butterfly valves type 578	198
	Lugstyle butterfly valves electric type 146	204
	Lugstyle butterfly valves pneumatic type 243	210

PVC-U metric		Page
	Wafer-style butterfly valves type 565	222
	Lugstyle butterfly valves type 565	244
	Pressure regulating valves	259
	Process control valves	265
	Cone check valves	270
	Wafer check valves	281
	Angle seat valves	284
	Solenoid valves	285
	Variable area flow meters	297
	Strainers	309
	Screen assemblies and Inspection glass	312
	Pipe clips	314

Pipes





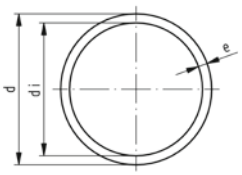
Pipe PVC-U grey
SDR13,6/PN16/S6,4

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 11
- **Note 1**: DIBT Z-40.23-1 approval
- **Note 3**: DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

	Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
*		12	11	16	**161 017 104**	0.062	1.1
	1, 3	16	13.6	16	**161 017 105**	0.091	1.2
	1, 3	20	13.6	16	**161 017 106**	0.139	1.5
	1, 3	25	13.6	16	**161 017 107**	0.215	1.9
	1, 3	32	13.6	16	**161 017 108**	0.347	2.4
	1, 3	40	13.6	16	**161 017 109**	0.533	3.0
	1, 3	50	13.6	16	**161 017 110**	0.821	3.7
	1, 3	63	13.6	16	**161 017 111**	1.310	4.7
	1, 3	75	13.6	16	**161 017 112**	1.850	5.6
	1, 3	90	13.6	16	**161 017 113**	2.640	6.7
	1, 3	110	13.6	16	**161 017 114**	3.910	8.1
	1, 3	125	13.6	16	**161 017 115**	5.040	9.2
	1, 3	140	13.6	16	**161 017 116**	6.030	10.3
	1, 3	160	13.6	16	**161 017 117**	8.230	11.8





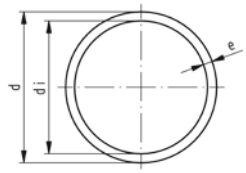
Pipe PVC-U grey
SDR9 High Performance

Model:

- SDR 9 / High Performance
- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- **Note 1**: DIBT Z-40.23-1 approval
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

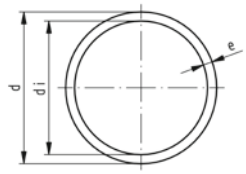
Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
1	6	9	16	**161 017 126**	0.025	1.0
1	8	9	16	**161 017 127**	0.035	1.0
1	10	9	16	**161 017 128**	0.054	1.2
1	12	9	16	**161 017 129**	0.074	1.4
1	16	9	16	**161 017 130**	0.125	1.8
1	20	9	16	**161 017 131**	0.199	2.3
1	25	9	16	**161 017 132**	0.299	2.8
1	32	9	16	**161 017 133**	0.489	3.6
1	40	9	16	**161 017 134**	0.761	4.5
1	50	9	16	**161 017 135**	1.180	5.6

table continued on the next page



Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
1	63	9	16	**161 017 136**	1.880	7.1
1	75	9	16	**161 017 137**	2.640	8.4
1	90	9	16	**161 017 138**	3.800	10.1
1	110	9	16	**161 017 139**	5.560	12.3





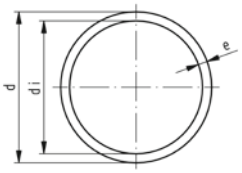
Pipe PVC-U grey SDR21/PN10/S10

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 17
- **Note 1**: DIBT Z-40.23-1 approval
- **Note 3**: DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

	Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
*	1, 3	25	17	10	**161 017 082**	0.177	1.5
*	1, 3	32	17	10	**161 017 083**	0.280	1.9
	1, 3	40	21	10	**161 017 084**	0.355	1.9
	1, 3	50	21	10	**161 017 085**	0.560	2.4
	1, 3	63	21	10	**161 017 086**	0.866	3.0
	1, 3	75	21	10	**161 017 087**	1.240	3.6
	1, 3	90	21	10	**161 017 088**	1.770	4.3
	1, 3	110	21	10	**161 017 089**	2.650	5.3
	1, 3	125	21	10	**161 017 090**	3.390	6.0
	1, 3	140	21	10	**161 017 091**	4.240	6.7
	1, 3	160	21	10	**161 017 092**	5.550	7.7
	1, 3	180	21	10	**161 017 093**	6.970	8.6
	1, 3	200	21	10	**161 017 094**	8.640	9.6
	1, 3	225	21	10	**161 017 095**	10.900	10.8
		250	21	10	**161 017 096**	13.300	11.9
		280	21	10	**161 017 097**	16.800	13.4
		315	21	10	**161 017 098**	21.200	15.0





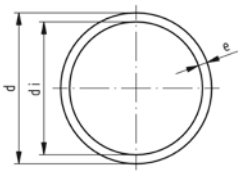
Pipe PVC-U transparent
SDR34,4/Series S16,7

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermical stress can cause discolouration
- Pipe length: 5000mm, with plain ends
- Approval: food grade, with declaration of conformity acc. EU 10/2011 and EU 1953/2004, Approval on request
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.
- * pcs in foil

	d (mm)	SDR	Code	Weight (kg/m)	e (mm)
* 5	50	34.4	**192 017 060**	0.366	1.5
* 1	160	34.4	**192 017 080**	3.490	4.7





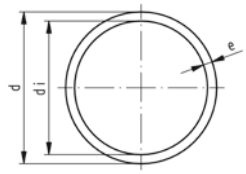
Pipe PVC-U transparent
SDR51/Series S25

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermical stress can cause discolouration
- Pipe length: 5000mm, with plain ends
- **Note 1**: Dimensional variatios of wall thickness not acc. to DIN 8062
- Approval: food grade, with declaration of conformity acc. EU 10/2011 and EU 1953/2004, Approval on request
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.
- * pcs in foil

	Note	d (mm)	SDR	Code	Weight (kg/m)	e (mm)	di (mm)
* 5	SDR 34,4	63	34.4	**192 017 036**	0.571	1.9	59.4
* 3	SDR 41	75	41	**192 017 037**	0.683	1.9	71.4
* 2		90	51	**192 017 038**	0.785	1.8	86.4
* 1	1	110	51	**192 017 039**	1.180	2.2	105.6
* 1		125	51	**192 017 040**	1.500	2.5	120.0
* 1		140	51	**192 017 041**	1.860	2.8	134.4
* 1		160	51	**192 017 042**	2.440	3.2	153.6
* 1		200	51	**192 017 044**	3.670	3.9	192.0
* 1	1	225	51	**192 017 045**	4.670	4.4	216.0
* 1		250	51	**192 017 046**	5.730	4.9	240.2
* 1	1	280	51	**192 017 047**	7.210	5.5	269.0





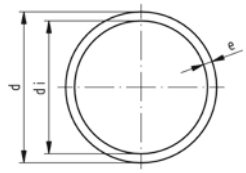
Pipe PVC-U transparent
SDR13,5/Series S6,3

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermical stress can cause discolouration
- Pipe length: 5000mm, with plain ends
- Food grade, with declaration of conformity acc. EU 10/2011 and EU 1953/2004
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.
- * SDR 11

	pcs in foil	Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	di (mm)	e (mm)
* 20	20	*	12	11	16	**192 017 104**	0.062	10.0	1.1
* 20	20		16	13.5	16	**192 017 105**	0.091	13.6	1.2
* 20	20		20	13.5	16	**192 017 106**	0.139	17.0	1.5
* 20	20		25	13.5	16	**192 017 107**	0.215	21.2	1.9
* 10	10		32	13.5	16	**192 017 108**	0.347	27.2	2.4
* 5	5		40	13.5	16	**192 017 109**	0.533	34.0	3.0
* 5	5		50	13.5	16	**192 017 110**	0.821	42.6	3.7
* 3	3		63	13.5	16	**192 017 111**	1.310	53.6	4.7





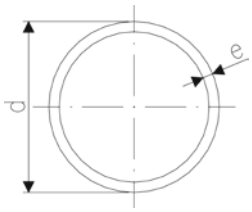
Pipe PVC-U transparent
SDR21 /Series S10

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8062
- Colour: transparent - Transparency depends on outer diameter and wall thickness! Chemical and thermical stress can cause discolouration
- Pipe length: 5000mm, with plain ends
- Approval: food grade, with declaration of conformity acc. EU 10/2011 and EU 1953/2004, Approval on request
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.
- * SDR17
- * pcs in foil

	Note	d (mm)	SDR	Code	Weight (kg/m)	e (mm)	di (mm)
* 20	*	25	17	**192 017 082**	0.177	1.5	22.0
* 10	*	32	17	**192 017 083**	0.280	1.9	28.4
* 10		40	21	**192 017 084**	0.355	1.9	36.2
* 5		50	21	**192 017 085**	0.560	2.4	45.2
* 3		63	21	**192 017 086**	0.866	3.0	57.0
* 3		75	21	**192 017 087**	1.240	3.6	67.8
* 2		90	21	**192 017 088**	1.770	4.3	81.4
* 1		110	21	**192 017 089**	2.650	5.3	99.4





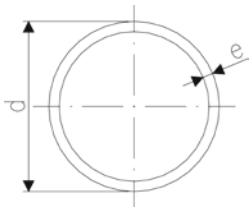
Pipe PVC-U grey
SDR34,4/PN6/S16,7

Model:

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- **Note 2**: according to DIN 8062
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
2	50	34.4	6	**161 017 060**	0.366	1.5
2	63	34.4	6	**161 017 061**	0.571	1.9
2	75	34.4	6	**161 017 062**	0.793	2.2
2	90	34.4	6	**161 017 063**	1.150	2.7
2	110	34.4	6	**161 017 064**	1.660	3.2
2	125	34.4	6	**161 017 065**	2.160	3.7
2	140	34.4	6	**161 017 066**	2.690	4.1
2	160	34.4	6	**161 017 067**	3.490	4.7
2	180	34.4	6	**161 017 068**	4.430	5.3
2	200	34.4	6	**161 017 069**	5.440	5.9
2	225	34.4	6	**161 017 070**	6.850	6.6
2	250	34.4	6	**161 017 071**	8.430	7.3
2	315	34.4	6	**161 017 072**	13.300	9.2
2	355	34.4	6	**161 017 073**	17.000	10.4
2	400	34.4	6	**161 017 074**	21.400	11.7





Pipe PVC-U grey
SDR51/PN4/S25

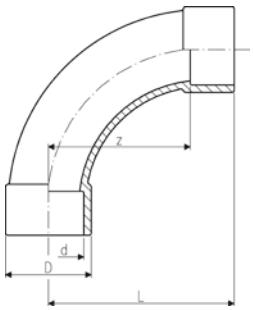
Model:

- Material: PVC-U
- Dimension: acc. to DIN 8061/62
- Colour: darkgrey RAL 7011
- Pipe length: 5000mm, with plain ends
- * SDR 41
- **Note 2**: according to DIN 8062
- **Note 3**: DVGW approval + DIN plus
- Attention: Pressure rates refer to operating temperatures at 20°C. Higher temperatures and aggressive flow media reduce pressure load (see above DIN and our technical documentation). Pressure load capacity has to be determined in consideration with safety demands of the respective applications and calculated in accordance.

	Note	d (mm)	SDR	PN (bar)	Code	Weight (kg/m)	e (mm)
*	2	75	41	4	**161 017 037**	0.683	1.9
	2	90	51	4	**161 017 038**	0.785	1.8
	2	110	51	4	**161 017 039**	1.180	2.2
	2	125	51	4	**161 017 040**	1.500	2.5
	2	140	51	4	**161 017 041**	1.860	2.8
	2	160	51	4	**161 017 042**	2.440	3.2
	2	180	51	4	**161 017 043**	3.060	3.6
	2	200	51	4	**161 017 044**	3.670	3.9
	2	225	51	4	**161 017 045**	4.670	4.4
	2	250	51	4	**161 017 046**	5.730	4.9
	2	280	51	4	**161 017 047**	7.210	5.5
	2	315	51	4	**161 017 048**	9.150	6.2

Fittings

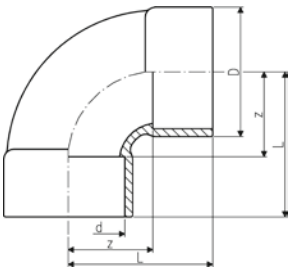




Bend 90° PVC metric

d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
20		16	**721 000 106**	0.029	40	27	56
25		16	**721 000 107**	0.049	50	33	69
32		16	**721 000 108**	0.074	64	38	86
40		16	**721 000 109**	0.121	80	47	106
50		16	**721 000 110**	0.298	100	61	131
63		16	**721 000 111**	0.516	126	76	164
75	2 ½	16	**721 000 112**	0.798	150	90	194
90		16	**721 000 113**	1.373	180	108	231
110		16	**721 000 114**	2.699	220	137	281
140	5	16	**721 000 116**	5.204	280	168	356
160		16	**721 000 117**	8.298	320	192	406



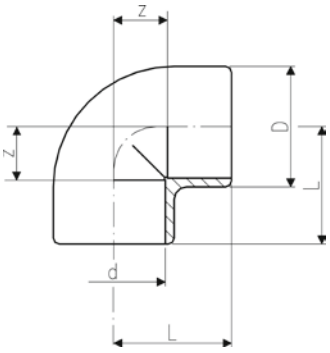


Bend 90° short pattern PVC-U metric

d (mm)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
225	10	**721 010 120**	7.554	168	256	287
280	10	**721 010 122**	16.987	210	318	357
315	6	**721 010 123**	21.567	237	356	402
400	6	**721 010 125**	30.000	300	442	521

Elbow 90° PVC-U metric

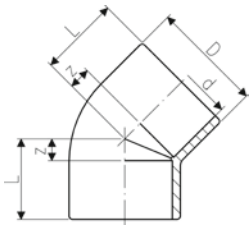




d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
6		16	**721 100 101**	0.004	4	11	16
8		16	**721 100 102**	0.004	5	13	17
10		16	**721 100 103**	0.004	6	14	18
12		16	**721 100 104**	0.006	7	17	19
16		16	**721 100 105**	0.007	9	21	23
20		16	**721 100 106**	0.012	11	25	27
25		16	**721 100 107**	0.024	14	32	33
32		16	**721 100 108**	0.043	17	40	39
40		16	**721 100 109**	0.062	23	47	49
50		16	**721 100 110**	0.107	26	59	57
63		16	**721 100 111**	0.202	33	73	71
75	2 ½	16	**721 100 112**	0.332	40	87	83
90		16	**721 100 113**	0.576	46	105	97
110		16	**721 100 114**	1.009	55	128	116
125		16	**721 100 115**	1.522	63	146	131
140	5	16	**721 100 116**	1.945	70	162	146
160		16	**721 100 117**	2.873	80	185	166
200		10	**721 100 119**	4.446	101	225	207
225		10	**721 100 120**	5.989	114	252	233
250		10	**721 100 121**	10.014	131	282	263

Elbow 45° PVC-U metric

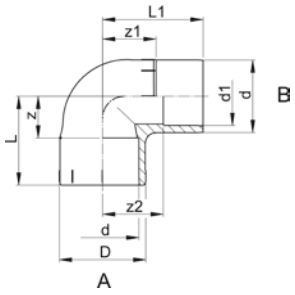




d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
16		16	**721 150 105**	0.008	5	21	19
20		16	**721 150 106**	0.011	5	25	21
25		16	**721 150 107**	0.017	6	31	25
32		16	**721 150 108**	0.021	8	38	30
40		16	**721 150 109**	0.048	10	47	36
50		16	**721 150 110**	0.086	12	59	43
63		16	**721 150 111**	0.160	14	73	52
75	2 ½	16	**721 150 112**	0.253	17	87	61
90		16	**721 150 113**	0.430	20	105	71
110		16	**721 150 114**	0.750	25	127	86
125		16	**721 150 115**	1.193	28	146	97
140	5	16	**721 150 116**	1.570	32	162	108
160		16	**721 150 117**	2.280	36	185	122
200		10	**721 150 119**	3.288	43	225	149
225		10	**721 150 120**	4.191	49	250	168
250		10	**721 150 121**	7.115	60	282	192
280		10	**721 150 122**	10.340	66	318	213
315		6	**721 150 123**	14.292	74	356	239
400		6	**721 150 125**	25.268	94	442	302

PRO-FIT elbow 90° PVC-U metric





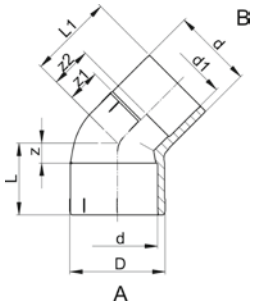
Model:

- Outlet: A = solvent cemented socket metric
- Outlet: B = solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)
20	16	16	**721 100 306**	0.011	11	16	18	25	27	32
25	20	16	**721 100 307**	0.020	14	18	21	31	33	37
32	25	16	**721 100 308**	0.038	17	22	25	38	39	44
40	32	16	**721 100 309**	0.069	23	30	34	47	49	56
50	40	16	**721 100 310**	0.122	26	36	41	58	57	67
63	50	16	**721 100 311**	0.237	33	45	52	73	71	83

PRO-FIT elbow 45° PVC-U metric



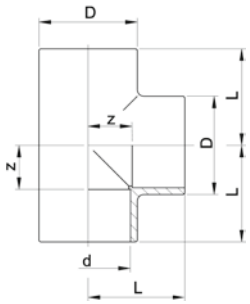


Model:

- Outlet: A = solvent cemented socket metric
- Outlet: B = solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)
20	16	16	**721 150 306**	0.010	5	9	11	25	21	25
25	20	16	**721 150 307**	0.015	6	11	14	31	25	30
32	25	16	**721 150 308**	0.027	8	13	16	38	30	35
40	32	16	**721 150 309**	0.053	10	17	21	47	36	43
50	40	16	**721 150 310**	0.090	12	18	23	58	43	49
63	50	16	**721 150 311**	0.175	14	23	30	73	52	61

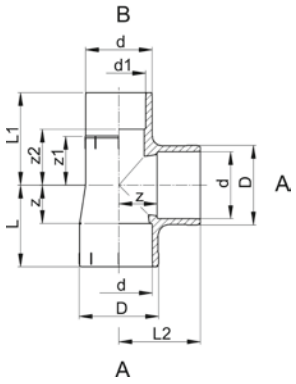




Tee 90° equal PVC-U metric

d (mm)	Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
6		16		**721 200 101**	0.004	11	16	4
8		16		**721 200 102**	0.008	13	17	5
10		16		**721 200 103**	0.008	16	18	6
12		16		**721 200 104**	0.011	19	19	7
16		16		**721 200 105**	0.011	21	23	9
20		16		**721 200 106**	0.019	25	27	11
25		16		**721 200 107**	0.029	31	33	14
32		16		**721 200 108**	0.055	38	39	17
40		16		**721 200 109**	0.100	48	49	23
50		16		**721 200 110**	0.156	58	57	26
63		16		**721 200 111**	0.291	73	71	33
75	2 ½	16	2 ½	**721 200 112**	0.476	87	83	39
90		16		**721 200 113**	0.824	105	97	46
110		16		**721 200 114**	1.411	127	116	55
125		16		**721 200 115**	2.521	151	135	66
140	5	16	5	**721 200 116**	3.410	169	147	71
160		16		**721 200 117**	4.982	193	167	81
200		10		**721 200 119**	5.868	225	207	101
225		10		**721 200 120**	9.268	256	233	114
250		10		**721 200 121**	14.350	282	263	132
280		10		**721 200 122**	19.541	318	298	152
315		6		**721 200 123**	27.254	356	332	168
400		6		**721 200 125**	35.000	442	420	214





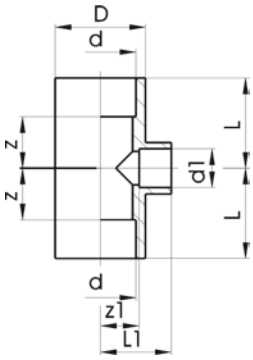
PRO-FIT tee 90° equal PVC-U metric

Model:

- Outlet: A = solvent cemented socket metric
- Outlet: B = solvent cemented spigot in combination with reducing socket metric
- Direct connection from fitting to fitting allowing shortest possible overall length

d (mm)	d1 (mm)	PN (bar)	Code	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
20	16	16	**721 200 306**	0.017	11	17	19	25	27	33	27
25	20	16	**721 200 307**	0.022	14	19	22	31	33	38	33
32	25	16	**721 200 308**	0.051	17	24	27	38	39	46	39
40	32	16	**721 200 309**	0.098	23	30	34	47	47	56	49
50	40	16	**721 200 310**	0.164	26	36	41	58	57	67	57
63	50	16	**721 200 311**	0.329	33	45	52	73	71	83	71

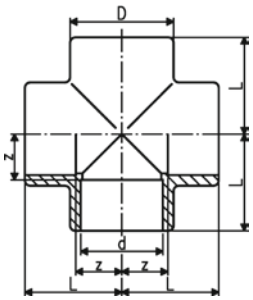




Tee 90° reducing PVC-U metric

d (mm)	d1 (mm)	PN (bar)	Size (inch)	Code	Weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
25	20	16		**721 200 134**	0.038	14	14	33	33	30
32	20	16		**721 200 141**	0.061	17	17	41	39	33
32	25	16		**721 200 138**	0.063	17	17	41	39	36
40	20	16		**721 200 155**	0.103	23	23	50	49	39
40	25	16		**721 200 151**	0.107	23	23	50	49	42
40	32	16		**721 200 147**	0.109	23	23	50	49	45
50	20	16		**721 200 009**	0.179	28	28	62	59	44
50	25	16		**721 200 010**	0.183	28	28	62	59	47
50	32	16		**721 200 164**	0.189	28	28	62	59	50
50	40	16		**721 200 161**	0.208	28	28	62	59	54
63	25	16		**721 200 011**	0.332	34	34	77	72	53
63	32	16		**721 200 178**	0.336	34	34	77	72	56
63	40	16		**721 200 174**	0.347	34	34	77	72	60
63	50	16		**721 200 170**	0.354	34	34	77	72	65
75	32	16	2 ½	**721 200 181**	0.535	40	41	92	84	63
75	40	16	2 ½	**721 200 182**	0.555	40	41	92	84	67
75	50	16	2 ½	**721 200 183**	0.541	40	41	92	84	72
75	63	16	2 ½	**721 200 184**	0.570	40	41	92	84	79
90	32	16		**721 200 142**	0.855	46	55	110	97	77
90	50	16		**721 200 144**	0.907	46	55	110	97	86
90	63	16		**721 200 145**	0.931	46	55	110	97	93
90	75	16		**721 200 146**	0.959	46	55	110	97	99
110	32	16		**721 200 135**	1.441	56	67	133	117	89
110	50	16		**721 200 136**	1.471	56	67	133	117	98
110	63	16		**721 200 132**	1.522	56	65	133	117	103
110	75	16		**721 200 133**	1.543	56	65	133	117	109
110	90	16		**721 200 137**	1.634	56	65	133	117	116
125	50	16		**721 200 139**	1.970	64	75	151	133	106
125	90	16		**721 200 140**	2.200	64	75	151	133	126
140	50	16	5	**721 200 148**	3.235	72	82	172	148	113
140	75	16	5	**721 200 149**	3.319	72	78	172	148	122
140	110	16	5	**721 200 150**	3.422	72	74	172	148	135
160	110	16		**721 200 152**	4.305	81	81	192	167	142
200	110	10		**721 200 153**	8.782	107	131	232	213	192
200	160	10		**721 200 154**	8.036	107	106	232	213	192
225	110	10		**721 200 156**	10.619	120	143	257	239	204
225	160	10		**721 200 157**	9.760	120	119	257	239	205
250	160	10		**721 200 159**	14.520	132	151	282	263	237
250	200	10		**721 200 162**	12.213	132	131	282	263	237
280	160	10		**721 200 165**	18.402	120	180	318	266	266
280	225	10		**721 200 167**	16.145	120	148	318	266	268
315	160	6		**721 200 169**	22.189	120	197	356	284	283
315	225	6		**721 200 172**	20.154	120	165	356	284	284
400	225	6		**721 200 176**	40.000	163	258	442	369	377
400	315	6		**721 200 180**	35.000	163	213	442	369	377

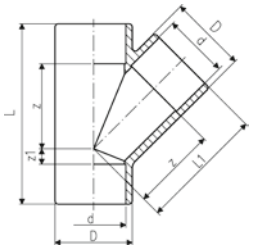




Cross PVC-U metric

d (mm)	d (inch)	PN (bar)	Size (inch)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
12		16		**721 300 104**	0.010	18	20	8
16		16		**721 300 105**	0.020	23	24	10
20		16		**721 300 106**	0.036	29	27	11
25		16		**721 300 107**	0.054	35	33	14
32		16		**721 300 108**	0.092	43	39	17
40		16		**721 300 109**	0.155	52	49	23
50		16		**721 300 110**	0.259	63	59	28
63		16		**721 300 111**	0.482	79	72	34
75	2 ½	10	2 ½	**721 300 112**	0.725	92	83	40
90		10		**721 300 113**	1.221	106	97	48
110		10		**721 300 114**	2.111	128	117	59

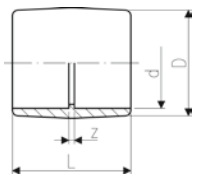




Tee 45° PVC-U metric

d (mm)	d (inch)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	z1 (mm)	D (mm)	L (mm)	L1 (mm)
10			10	**721 250 103**	0.013	18	4	16	46	30
12			10	**721 250 104**	0.014	21	4	18	49	33
16			10	**721 250 105**	0.022	25	5	23	58	39
20			10	**721 250 106**	0.035	30	6	28	68	46
25			10	**721 250 107**	0.056	36	9	33	83	55
32			10	**721 250 108**	0.096	45	10	41	99	67
40			10	**721 250 109**	0.159	56	10	50	118	82
50			10	**721 250 110**	0.265	66	12	60	140	97
63			10	**721 250 111**	0.439	85	14	74	175	123
75	2 ½	2 ½	6	**721 250 112**	0.816	101	18	91	207	145
90			6	**721 250 113**	1.275	122	20	107	245	173
110			6	**721 250 114**	2.579	149	27	134	298	210
125			6	**721 250 115**	3.616	167	30	147	335	236
140	5	5	6	**721 250 116**	5.628	190	34	168	376	266
160			6	**721 250 117**	7.187	213	41	190	428	300
200			6	**721 250 119**	12.314	265	48	232	527	372
225			6	**721 250 120**	15.735	296	54	260	590	416
250			6	**721 250 121**	20.350	330	60	286	654	462



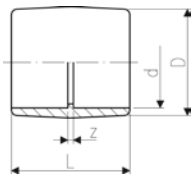


Socket equal PVC-U metric

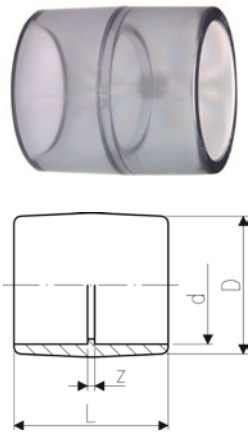
[1] Socket d355 and d400 fabricated from pipe. The socket length can vary up to +/- 20mm

d (mm)	d (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
6		16	**721 910 101**	0.004	3	12	27
8		16	**721 910 102**	0.005	3	14	27
10		16	**721 910 103**	0.004	3	16	27
12		16	**721 910 104**	0.004	3	19	27
16		16	**721 910 105**	0.006	3	22	31
20		16	**721 910 106**	0.011	3	26	35
25		16	**721 910 107**	0.015	3	32	41
32		16	**721 910 108**	0.026	3	39	47
40		16	**721 910 109**	0.045	3	48	55

table continued on the next page

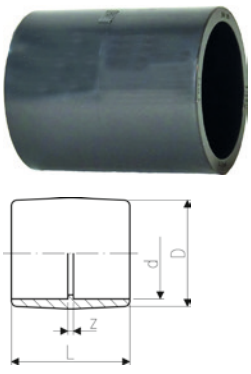


	d (mm)	d (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
	50		16	**721 910 110**	0.064	3	58	65
	63		16	**721 910 111**	0.187	3	73	79
	75	2 ½	16	**721 910 112**	0.188	4	87	92
	90		16	**721 910 113**	0.328	5	105	107
	110		16	**721 910 114**	0.554	6	128	128
	125		16	**721 910 115**	0.825	7	142	145
	140	5	16	**721 910 116**	1.118	7	162	159
	160		16	**721 910 117**	1.540	8	183	180
	200		10	**721 910 119**	2.559	9	221	221
	225		10	**721 910 120**	3.519	10	253	248
	250		10	**721 910 121**	5.394	16	284	284
	280		10	**721 910 122**	8.312	17	317	315
	315		6	**721 910 123**	10.388	17	356	349
1	355		6	**721 910 124**	10.706	68	383	480
1	400		6	**721 910 125**	11.326	73	425	531



Socket equal PVC-U transparent metric

d (mm)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
16	16	**752 910 105**	0.009	3	23	31
20	16	**752 910 106**	0.012	3	27	35
25	16	**752 910 107**	0.016	3	32	41
32	16	**752 910 108**	0.027	3	40	47
40	16	**752 910 109**	0.061	3	52	55
50	16	**752 910 110**	0.068	3	60	65
63	16	**752 910 111**	0.115	3	75	79



Adaptor socket PVC-U metric Inch/BS

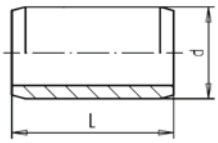
Model:

- With solvent cement sockets metric and BS inch

d (mm)	PN (bar)	Size (inch)	d (inch)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
16	16	⅜	⅜	**721 913 105**	0.010	5	23	35
20	16	½	½	**721 913 106**	0.012	5	27	38
25	16	¾	¾	**721 913 107**	0.020	5	33	45
32	16	1	1	**721 913 108**	0.031	5	41	51
40	16	1 ¼	1 ¼	**721 913 109**	0.054	5	51	60
50	16	1 ½	1 ½	**721 913 110**	0.074	4	59	65
63	16	2	2	**721 913 111**	0.155	5	75	79
90	16	3	3	**721 913 113**	0.340	6	104	108
110	16	4	4	**721 913 115**	0.488	4	128	128

Barrel nipple PVC-U metric





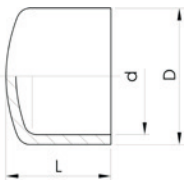
Model:

- With solvent cement spigots on both sides
- Overall length L = 2 x socket length
- For the shortest possible distance between fittings

d (mm)	Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)	L (mm)
16		16		**721 900 905**	0.002	28
20		16		**721 900 906**	0.005	32
25		16		**721 900 907**	0.009	38
32		16		**721 900 908**	0.015	44
40		16		**721 900 909**	0.027	52
50		16		**721 900 910**	0.048	62
63		16		**721 900 911**	0.092	76
75	2 ½	16	2 ½	**721 900 912**	0.156	88
90		16		**721 900 913**	0.260	102
110		16		**721 900 914**	0.455	122
125		16		**721 900 915**	0.673	138
140	5	16	5	**721 900 916**	0.932	152
160		16		**721 900 917**	1.565	192
200		10		**721 900 919**	1.779	212
225		10		**721 900 920**	2.566	238

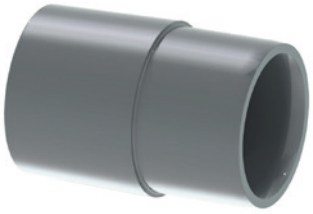
Cap PVC-U metric / BS

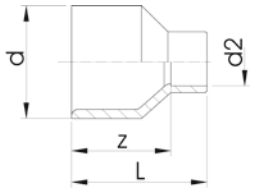




	d (mm)	d (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)
	12		16	**721 960 104**	0.004	19	15
	16		16	**721 960 105**	0.005	23	21
	20		16	**721 960 106**	0.008	27	24
	25		16	**721 960 107**	0.013	33	28
	32		16	**721 960 108**	0.020	40	32
	40		16	**721 960 109**	0.029	47	37
	50		16	**721 960 110**	0.051	58	45
	63		16	**721 960 111**	0.095	73	56
*	75	2 ½	16	**721 960 112**	0.152	87	65
	90		16	**721 960 113**	0.269	105	77
	110		16	**721 960 114**	0.457	128	94
*	140	5	10	**721 960 116**	1.036	164	114
	160		10	**721 960 117**	1.534	188	130
	200		10	**721 960 119**	2.614	230	170
	225		10	**721 960 120**	3.320	257	185
	280		10	**721 960 122**	6.200	318	230
	315		6	**721 960 123**	8.500	356	255
		⅜	15	**721 961 105**	0.007	26	23
		½	15	**721 961 106**	0.009	30	25
		¾	15	**721 961 107**	0.016	37	30
		1	15	**721 961 108**	0.025	44	34
		1 ¼	15	**721 961 109**	0.038	51	41
		1 ½	15	**721 961 110**	0.071	62	44
		2	15	**721 961 111**	0.133	78	54
		3	15	**721 961 113**	0.323	112	77
		4	15	**721 962 115**	0.762	141	101

Reducing bush long PVC-U metric





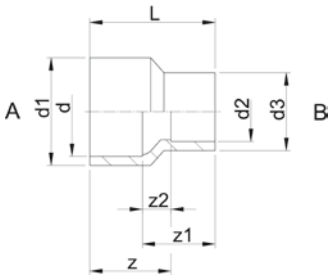
Model:

- With solvent cement spigot and socket metric

d (mm)	d2 (mm)	PN (bar)	Size (inch)	Code	Weight (kg)	z (mm)	L (mm)
8	6	16		**721 910 323**	0.003	15	27
10	6	16		**721 910 326**	0.003	15	27
10	8	16		**721 910 325**	0.003	15	27
20	16	16		**721 910 334**	0.009	21	35
25	20	16		**721 910 337**	0.014	25	41
32	25	16		**721 910 341**	0.024	30	49
40	32	16		**721 910 346**	0.044	36	58
50	40	16		**721 910 352**	0.074	44	70
63	50	16		**721 910 358**	0.148	54	85
75	63	16	2 ½	**721 910 364**	0.211	62	100
90	75	16		**721 910 370**	0.335	74	118
140	110	16	5	**721 910 385**	0.808	111	172

PRO-FIT reducing bush PVC-U metric



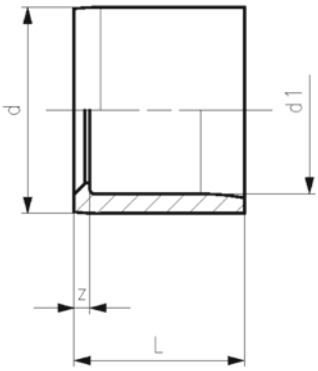


Model:

- Outlet: A and B = solvent cemented spigot in combination with reducing socket metric

d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	z1 (mm)	z2 (mm)	L (mm)
10	14	8	12		16	**721 910 903**	0.003	15	15	3	27
12	16	8	12		16	**721 910 905**	0.004	18	18	6	30
12	16	10	16		16	**721 910 906**	0.004	18	18	6	30
16	20	10	16		16	**721 910 908**	0.003	21	19	7	33
16	20	12	16		16	**721 910 909**	0.004	21	19	7	33
20	25	12	16		16	**721 910 910**	0.008	25	21	9	37
20	25	16	20		16	**721 910 911**	0.008	25	23	9	39
25	32	12	16		16	**721 910 912**	0.014	30	23	11	42
25	32	16	20		16	**721 910 913**	0.015	30	26	12	44
25	32	20	25		16	**721 910 914**	0.017	30	27	11	46
32	40	16	20		16	**721 910 915**	0.025	36	28	14	50
32	40	20	25		16	**721 910 916**	0.026	36	30	14	52
32	40	25	32		16	**721 910 917**	0.031	36	33	14	55
40	50	20	25		16	**721 910 918**	0.045	44	34	18	60
40	50	25	32		16	**721 910 919**	0.052	44	37	18	63
40	50	32	40		16	**721 910 920**	0.058	44	40	18	66
50	63	25	32		16	**721 910 921**	0.092	54	42	23	73
50	63	32	40		16	**721 910 922**	0.098	54	45	23	76
50	63	40	50		16	**721 910 923**	0.111	54	49	23	80
63	75	32	40		16	**721 910 924**	0.127	62	46	24	84
63	75	40	50		16	**721 910 925**	0.139	62	50	24	88
63	75	50	63		16	**721 910 926**	0.167	62	55	24	93
75	90	40	50	2 ½	16	**721 910 927**	0.224	74	56	30	100
75	90	50	63	2 ½	16	**721 910 928**	0.253	74	61	30	105
75	90	63	75	2 ½	16	**721 910 929**	0.265	74	68	30	112





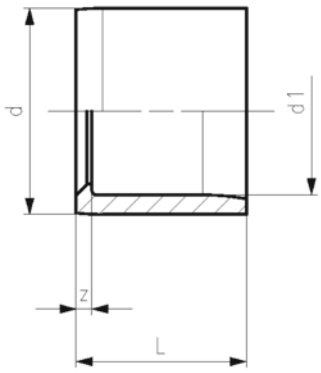
Reducing bush short PVC-U metric

Model:

- With solvent cement spigot and socket metric

d (mm)	d1 (mm)	PN (bar)	Size (inch)	Code	Weight (kg)	z (mm)	L (mm)
12	8	16		**721 900 329**	0.002	2	14
16	12	16		**721 900 331**	0.002	2	14
20	16	16		**721 900 334**	0.002	2	16
25	20	16		**721 900 337**	0.004	3	19
32	20	16		**721 900 342**	0.014	6	22
32	25	16		**721 900 341**	0.009	3	22
40	20	16		**721 900 348**	0.021	10	26
40	25	16		**721 900 347**	0.021	7	26
40	32	16		**721 900 346**	0.016	4	26
50	20	16		**721 900 355**	0.037	15	31
50	25	16		**721 900 354**	0.034	12	31
50	32	16		**721 900 353**	0.036	9	31
50	40	16		**721 900 352**	0.030	5	31
63	32	16		**721 900 360**	0.064	16	38
63	40	16		**721 900 359**	0.067	12	38
63	50	16		**721 900 358**	0.058	7	38
75	50	16	2 ½	**721 900 365**	0.109	13	44
75	63	16	2 ½	**721 900 364**	0.078	6	44
90	50	16		**721 900 372**	0.181	20	51
90	63	16		**721 900 371**	0.183	13	51
90	75	16		**721 900 370**	0.135	7	51
110	50	16		**721 900 379**	0.316	30	61
110	63	16		**721 900 378**	0.308	23	61
110	75	16		**721 900 377**	0.295	17	61
110	90	16		**721 900 376**	0.259	10	61
125	90	16		**721 900 381**	0.465	18	69
125	110	16		**721 900 380**	0.267	8	69
140	90	16	5	**721 900 386**	0.562	25	76
140	110	16	5	**721 900 385**	0.605	15	76
140	125	16	5	**721 900 384**	0.331	7	76
160	90	16		**721 900 391**	0.751	35	86
160	110	16		**721 900 390**	0.883	25	86
160	140	16		**721 900 388**	0.551	10	86
200	110	10		**721 900 393**	1.985	45	108
200	125	10		**721 900 325**	2.024	37	108
200	140	10		**721 900 394**	1.928	29	108
200	160	10		**721 900 392**	1.085	20	108
225	110	10		**721 900 397**	2.544	57	120
225	125	10		**721 900 399**	2.563	49	120
225	140	10		**721 900 398**	2.609	41	120
225	160	10		**721 900 396**	2.199	31	119
225	200	10		**721 900 181**	1.360	13	119
250	125	10		**721 900 326**	3.150	11	131
250	140	10		**721 900 300**	3.200	54	133
250	160	10		**721 900 301**	3.390	44	133
250	200	10		**721 900 302**	3.198	24	133
250	225	10		**721 900 303**	1.686	11	133
280	140	10		**721 900 307**	4.157	69	148
280	160	10		**721 900 308**	4.170	60	148
280	200	10		**721 900 304**	4.577	39	148
280	225	10		**721 900 305**	4.409	27	146
280	250	10		**721 900 306**	2.515	14	148
315	160	6		**721 900 313**	5.188	77	166
315	200	6		**721 900 309**	5.480	57	166
315	225	6		**721 900 310**	6.035	44	166
315	250	6		**721 900 311**	6.481	32	166
315	280	6		**721 900 312**	4.055	28	167
355	315	6		**721 900 315**	5.792	23	206

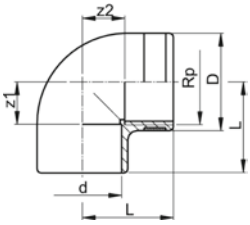
table continued on the next page



d (mm)	d1 (mm)	PN (bar)	Size (inch)	Code	Weight (kg)	z (mm)	L (mm)
400	250	6		**721 900 319**	11.528	60	206
400	280	6		**721 900 320**	11.366	60	206
400	315	6		**721 900 321**	13.006	42	206
400	355	6		**721 900 322**	7.524	22	206

Adaptor fittings





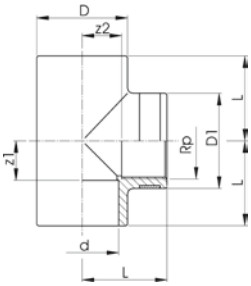
Elbow 90° PVC-U metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L (mm)
12	Rp	¼	16	**721 100 204**	0.010	7	7	20	19
16	Rp	⅜	16	**721 100 205**	0.015	9	9	25	23
20	Rp	½	16	**721 100 206**	0.023	13	11	30	27
25	Rp	¾	16	**721 100 207**	0.035	16	15	35	33
32	Rp	1	16	**721 100 208**	0.060	19	19	45	39
40	Rp	1 ¼	16	**721 100 209**	0.122	23	27	55	50
50	Rp	1 ½	16	**721 100 210**	0.187	27	36	62	58
63	Rp	2	16	**721 100 211**	0.324	33	46	75	73





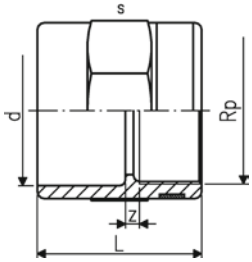
Tee 90° PVC-U metric Rp

Model:

- With solvent cement socket metric, branch with parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	D1 (mm)	L (mm)
12	Rp	¼	16	**721 200 204**	0.015	7	7	17	20	19
16	Rp	⅜	16	**721 200 205**	0.027	9	9	21	25	23
20	Rp	½	16	**721 200 206**	0.029	11	13	26	30	29
25	Rp	¾	16	**721 200 207**	0.043	14	15	32	35	33
32	Rp	1	16	**721 200 208**	0.080	17	19	40	45	39
40	Rp	1 ¼	16	**721 200 209**	0.134	23	26	47	55	49
50	Rp	1 ½	16	**721 200 210**	0.212	27	36	59	59	59
63	Rp	2	16	**721 200 211**	0.379	33	46	74	75	71





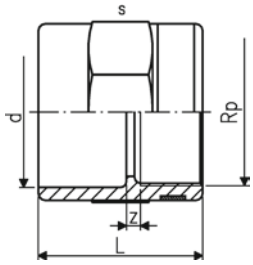
Adaptor socket PVC-U metric Rp Reinforced

Model:

- With solvent cement socket metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

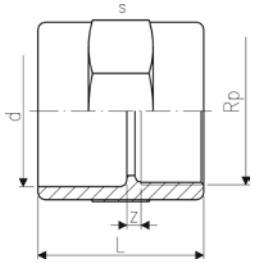
d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
12	Rp	¼	16	**721 910 204**	0.010	4	27	22
16	Rp	⅜	16	**721 910 205**	0.016	5	31	27
20	Rp	½	16	**721 910 206**	0.025	5	36	32
25	Rp	¾	16	**721 910 207**	0.032	5	40	36

table continued on the next page



d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
32	Rp	1	16	**721 910 208**	0.057	5	45	46
40	Rp	1 ¼	16	**721 910 209**	0.087	5	51	55
50	Rp	1 ½	16	**721 910 210**	0.126	7	59	65
63	Rp	2	16	**721 910 211**	0.206	7	69	80





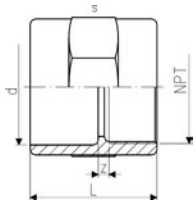
Adaptor socket PVC-U metric Rp

Model:

- With solvent cement socket metric and parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
75	Rp	2 ½	10	**721 916 012**	0.220	7	82	90
90	Rp	3	10	**721 916 013**	0.365	9	94	110
110	Rp	4	10	**721 916 014**	0.536	9	110	130





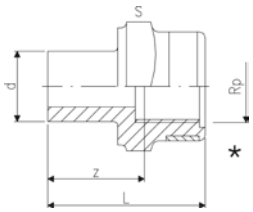
Adaptor socket PVC-U metric NPT

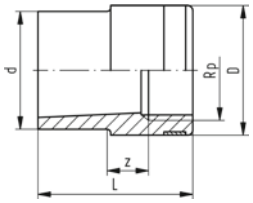
Model:

- With solvent cement socket metric and NPT (ASTM) taper female thread
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
20	NPT	½	10	**721 914 206**	0.021	5	35	32
25	NPT	¾	10	**721 914 207**	0.028	6	40	36
32	NPT	1	10	**721 914 208**	0.049	6	45	46
40	NPT	1 ¼	10	**721 914 209**	0.076	6	51	55
50	NPT	1 ½	10	**721 914 210**	0.110	10	59	65
63	NPT	2	10	**721 914 211**	0.175	10	69	80







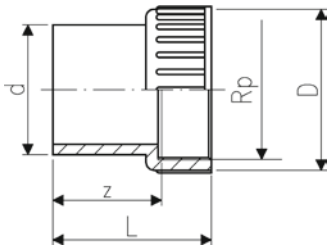
Reducing bush PVC-U metric Rp

Model:

- With solvent cement spigot metric and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

	d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)	s (mm)
*	12	Rp	¼	16	**721 910 404**	0.008	3	20	27	22
	20	Rp	⅜	16	**721 910 434**	0.014	7	25	35	
	25	Rp	½	16	**721 910 437**	0.021	7	30	41	
	32	Rp	¾	16	**721 910 441**	0.032	15	35	48	
	40	Rp	1	16	**721 910 446**	0.058	20	45	56	
	50	Rp	1 ¼	16	**721 910 452**	0.097	20	55	66	
	63	Rp	1 ½	16	**721 910 458**	0.151	10	62	77	





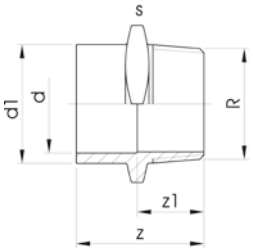
Adaptor PVC-U metric Rp

Model:

- With solvent cement spigot metric and parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
20	Rp	½	10	**721 900 406**	0.012	22	28	37
25	Rp	¾	10	**721 900 407**	0.018	25	34	41
32	Rp	1	10	**721 900 408**	0.035	29	42	48
40	Rp	1 ¼	10	**721 900 409**	0.063	34	52	56
50	Rp	1 ½	10	**721 900 410**	0.097	40	62	61
63	Rp	2	10	**721 900 411**	0.170	49	77	74





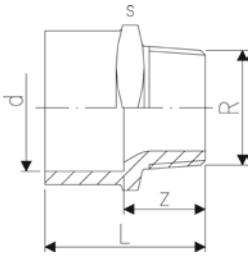
Adaptor socket nipple PVC-U metric R

Model:

- With solvent cement spigot/socket reducing metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	PN (bar)	d1 (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	s (mm)
12	R	⅜	16	16	**721 910 555**	0.010	35	23	27
16	R	½	16	20	**721 910 556**	0.016	42	28	32
20	R	¾	16	25	**721 910 557**	0.023	47	31	36
25	R	1	16	32	**721 910 558**	0.040	54	35	46
32	R	1 ¼	16	40	**721 910 559**	0.061	60	38	55
40	R	1 ½	16	50	**721 910 560**	0.094	66	40	65
50	R	2	16	63	**721 910 561**	0.164	78	47	80





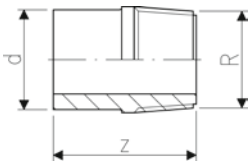
Adaptor bush equal PVC-U metric R

Model:

- With solvent cement socket metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
16	R	⅜	16	**721 910 705**	0.011	20	34	27
20	R	½	16	**721 910 706**	0.018	24	40	32
25	R	¾	16	**721 910 707**	0.025	25	44	36
32	R	1	16	**721 910 708**	0.039	28	50	46
40	R	1 ¼	16	**721 910 709**	0.061	31	57	55
50	R	1 ½	16	**721 910 710**	0.092	32	63	65
63	R	2	16	**721 910 711**	0.161	38	76	80
75	R	2 ½	10	**721 910 712**	0.227	42	86	90
90	R	3	10	**721 910 713**	0.389	46	97	110
110	R	4	10	**721 910 714**	0.572	53	114	130





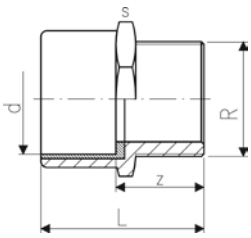
Adaptor nipple PVC-U metric R

Model:

- With solvent cement spigot metric and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)
16	R	⅜	10	**721 913 505**	0.006	31
20	R	½	10	**721 913 506**	0.010	35
25	R	¾	10	**721 913 507**	0.017	40
32	R	1	10	**721 913 508**	0.026	46



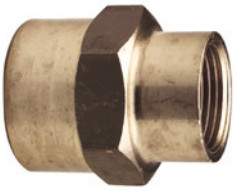


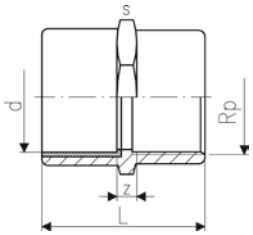
Adaptor socket PVC-U metric brass R

Model:

- Brass with taper male thread R and PVC-U solvent cement socket insert, metric
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
40	R	1 ¼	16	**720 910 709**	0.437	36	64	58
50	R	1 ½	16	**720 910 710**	0.671	38	72	70
63	R	2	16	**720 910 711**	1.035	43	84	85





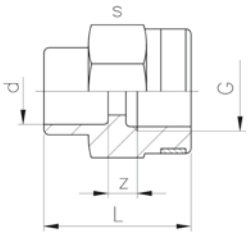
Adaptor socket PVC-U metric brass Rp

Model:

- Brass with parallel female thread Rp and PVC-U solvent cement socket insert, metric
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
40	Rp	1 ¼	16	**720 910 209**	0.482	17	66	58
50	Rp	1 ½	16	**720 910 210**	0.737	19	74	70
63	Rp	2	16	**720 910 211**	1.130	19	86	83





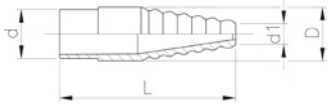
Manometer adaptor sockets PVC-U metric G

Model:

- With solvent cement socket metric and female thread G
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
12	G	¼	16	**721 916 204**	0.010	4	27	22
16	G	½	16	**721 916 206**	0.026	7	36	32





Laboratory hose connector PVC-U metric

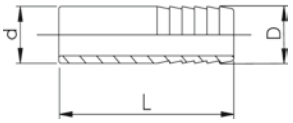
Model:

- With solvent cement spigot metric and tapered hose connection

d (mm)	PN (bar)	Code	Weight (kg)	d1 (mm)	D (mm)	L (mm)
10	16	**721 960 303**	0.004	6	12	51
12	16	**721 960 304**	0.004	6	12	51
16	16	**721 960 305**	0.007	8	16	57
20	16	**721 960 306**	0.016	11	22	73

Hose connector PVC-U metric





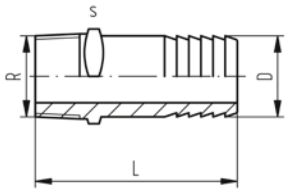
Model:

- With solvent cement spigot metric and parallel hose connection

d (mm)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)
10	16	**721 960 403**	0.002	8	47
12	16	**721 960 404**	0.003	12	51
16	16	**721 960 405**	0.008	16	57
20	16	**721 960 406**	0.016	20	73
25	16	**721 960 407**	0.021	25	79
32	16	**721 960 408**	0.035	30	89
32	16	**721 960 508**	0.035	32	89
40	16	**721 960 409**	0.060	40	100
50	16	**721 960 410**	0.112	50	105
63	16	**721 960 411**	0.180	60	120

Hose connector PVC-U R





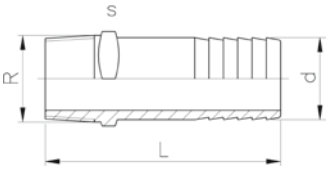
Model:

- With taper male thread R
- With parallel hose connector
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	s (mm)
R	¼	10	**721 960 704**	0.003	12	59	14
R	⅜	10	**721 960 705**	0.006	16	67	19
R	½	10	**721 960 706**	0.019	20	86	22
R	¾	10	**721 960 707**	0.026	25	92	27
R	1	10	**721 960 708**	0.048	30	103	36
R	1 ¼	10	**721 960 709**	0.079	40	115	46

Hose connector PVC-U R reduced





Model:

- With taper male thread R
- With parallel hose connector
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	Code	Weight (kg)	s (mm)	L (mm)
14	R	½	**721 961 706**	0.012	22	70
20	R	¾	**721 961 707**	0.021	27	80
27	R	1	**721 961 708**	0.042	36	90

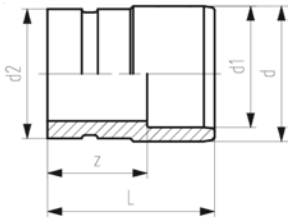
Adaptor fitting PVC-U metric - Victaulic



Model:

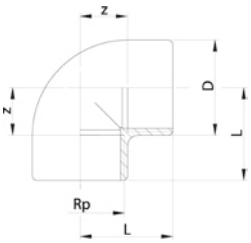
- With solvent cement spigot and socket metric
- For metal couplings (type Victaulic)

d (mm)	Size (inch)	PN (bar)	d1 (mm)	d2- victaulic (inch)	Code	Weight (kg)	L (mm)	z (mm)
50		10	40	1 1/2	**721 910 090**	0.150	71	45
63		10	50	2	**721 910 091**	0.200	78	47
75	2 ½	10	63	2 1/2	**721 910 092**	0.250	84	46



Threaded fittings





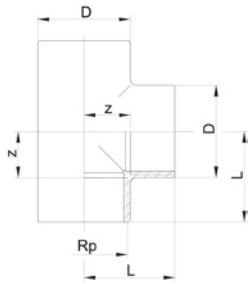
Elbow 90° PVC-U Rp

Model:

- With parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
Rp	⅜	10	**721 101 605**	0.013	9	23	23
Rp	½	10	**721 101 606**	0.017	12	27	27
Rp	¾	10	**721 101 607**	0.029	15	33	33
Rp	1	10	**721 101 608**	0.042	19	39	39
Rp	1 ¼	10	**721 101 609**	0.070	27	48	49
Rp	1 ½	10	**721 101 610**	0.178	35	61	59
Rp	2	10	**721 101 611**	0.322	44	75	72





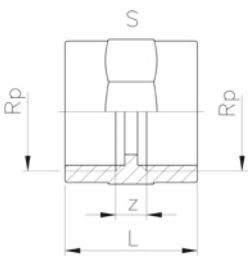
Tee 90° equal PVC-U Rp

Model:

- With parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
Rp	⅜	10	**721 201 605**	0.016	9	23	23
Rp	½	10	**721 201 606**	0.027	12	28	27
Rp	¾	10	**721 201 607**	0.039	15	33	33
Rp	1	10	**721 201 608**	0.072	19	41	39
Rp	1 ¼	10	**721 201 609**	0.146	27	50	49
Rp	1 ½	10	**721 201 610**	0.267	36	62	60
Rp	2	10	**721 201 611**	0.485	44	77	72





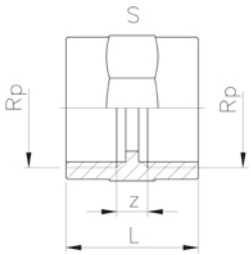
Socket PVC-U Rp

Model:

- With parallel female thread Rp
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

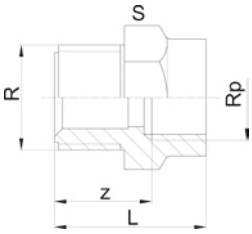
Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
Rp	¼	10	**721 910 604**	0.010	7	27	22
Rp	⅜	10	**721 910 605**	0.015	7	29	27
Rp	½	10	**721 910 606**	0.024	9	35	32
Rp	¾	10	**721 910 607**	0.029	9	39	36

table continued on the next page



Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
Rp	1	10	**721 910 608**	0.053	11	45	46
Rp	1 ¼	10	**721 910 609**	0.076	11	49	55
Rp	1 ½	10	**721 910 610**	0.106	11	49	65
Rp	2	10	**721 910 611**	0.180	11	57	80





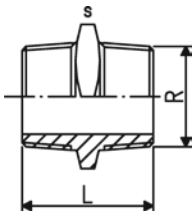
Reducing bush PVC-U R Rp

Model:

- With taper male thread R and parallel female thread Rp
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	Thread Type 2	Size 2 (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
R	½	Rp	⅜	10	**721 910 834**	0.014	25	36	27
R	¾	Rp	½	10	**721 910 837**	0.021	25	39	32
R	1	Rp	½	10	**721 910 842**	0.029	31	45	32
R	1	Rp	¾	10	**721 910 841**	0.031	29	45	36
R	1 ¼	Rp	1	10	**721 910 846**	0.050	32	50	46
R	1 ½	Rp	1 ¼	10	**721 910 852**	0.065	35	55	55
R	2	Rp	1 ½	10	**721 910 858**	0.127	45	65	65





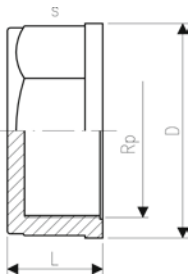
Doublenipple PVC-U R

Model:

- With taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	Type	Code	Weight (kg)	L (mm)	s (mm)
R	⅜	10	A	**721 911 905**	0.007	37	19
R	½	10	A	**721 911 906**	0.012	45	22
R	¾	10	A	**721 911 907**	0.019	49	27
R	1	10	A	**721 911 908**	0.034	57	36
R	1 ¼	10	A	**721 911 909**	0.052	62	46
R	1 ½	10	A	**721 911 910**	0.070	67	50
R	2	10	A	**721 911 911**	0.126	76	65





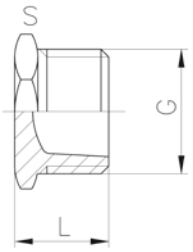
Cap PVC-U Rp

Model:

- With parallel female thread Rp
- Connection to plastic thread only
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	s (mm)
Rp	⅜	10	**721 960 605**	0.012	31	19	27
Rp	½	10	**721 960 606**	0.018	37	21	32
Rp	¾	10	**721 960 607**	0.024	42	24	36
Rp	1	10	**721 960 608**	0.040	50	26	46
Rp	1 ¼	10	**721 960 609**	0.060	60	29	55
Rp	1 ½	10	**721 960 610**	0.072	65	31	60
Rp	2	10	**721 960 611**	0.127	81	36	75





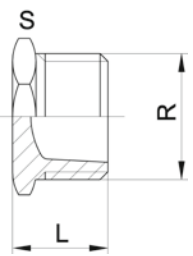
Plug PVC-U G

Model:

- With parallel male thread G
- Flat gasket necessary for sealing
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)
G	⅜	10	**721 960 905**	0.005	21	22
G	½	10	**721 960 906**	0.010	25	27
G	¾	10	**721 960 907**	0.018	29	36
G	1	10	**721 960 908**	0.029	32	41
G	1 ¼	10	**721 960 909**	0.048	36	50
G	1 ½	10	**721 960 910**	0.070	37	60
G	2	10	**721 960 911**	0.120	42	75





Plug PVC-U R

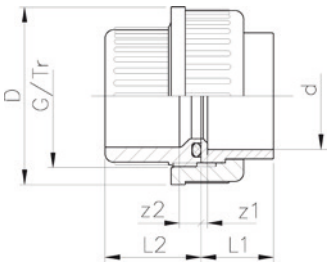
Model:

- With taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)	s (mm)
R	⅜	10	**721 961 905**	0.006	21	22
R	½	10	**721 961 906**	0.011	25	27
R	¾	10	**721 961 907**	0.020	29	36
R	1	10	**721 961 908**	0.030	32	41
R	1 ¼	10	**721 961 909**	0.048	36	50
R	1 ½	10	**721 961 910**	0.071	37	60
R	2	10	**721 961 911**	0.119	42	75

Unions





Union PVC-U metric

Model:

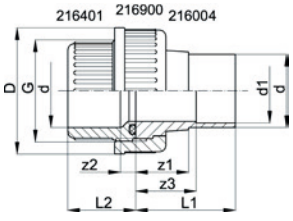
- Union End: solvent socket metric
- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM code no. 748 410 004-016; d90 748 410 248; FKM: 749 410 004-016; d90 749 410 248

d (mm)	d (inch)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
10			16	**721 510 103**	0.021	**721 510 128**	0.020
12			16	**721 510 104**	0.020	**721 510 129**	0.019
16			16	**721 510 105**	0.025	**721 510 130**	0.025
20			16	**721 510 106**	0.041	**721 510 131**	0.042
25			16	**721 510 107**	0.058	**721 510 132**	0.058
32			16	**721 510 108**	0.083	**721 510 133**	0.084
40			16	**721 510 109**	0.147	**721 510 134**	0.152
50			16	**721 510 110**	0.203	**721 510 135**	0.207
63			16	**721 510 111**	0.356	**721 510 136**	0.361
75	2 ½	2 ½	10	**721 510 112**	0.614	**721 510 137**	0.621
90			10	**721 510 313**	0.920	**721 510 338**	0.929
110			10	**721 510 114**	1.434	**721 510 139**	1.492

d (mm)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G/Tr (inch)
10	3	10	31	15	22	5/8
12	3	10	31	15	22	5/8
16	3	10	35	17	24	3/4
20	3	10	43	19	26	1
25	3	10	51	22	29	1 1/4
32	3	10	58	25	33	1 1/2
40	3	12	72	29	39	2
50	3	14	83	34	46	2 1/4
63	3	18	100	41	58	2 3/4
75	3	18	135	47	62	Tr108x5
90	5	18	158	56	69	Tr128x5
110	5	11	188	66	72	Tr154x6







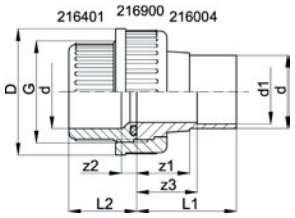
PRO-FIT union PVC-U metric

Model:

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Solvent socket metric
- Gasket: O-Ring EPDM code no. 748 410 005-011; FKM: 749 410 005-011

	d (mm)	PN (bar)	d1 (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
*	16	16	12	**721 510 305**	0.029	**721 510 330**	0.029
*	20	16	16	**721 510 306**	0.046	**721 510 331**	0.044
*	25	16	20	**721 510 307**	0.073	**721 510 332**	0.073
*	32	16	25	**721 510 308**	0.097	**721 510 333**	0.095
	40	16	32	**721 510 309**	0.169	**721 510 334**	0.171
	50	16	40	**721 510 310**	0.250	**721 510 335**	0.250
	63	16	50	**721 510 311**	0.437	**721 510 336**	0.449

table continued on the next page



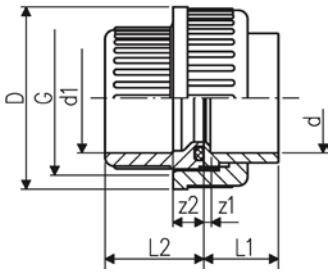
	d (mm)	G (inch)	z1 (mm)	z2 (mm)	z3 (mm)	D (mm)	L1 (mm)	L2 (mm)
*	16	¾	22	10	24	35	36	24
*	20	1	24	10	26	43	40	26
*	25	1 ¼	25	10	28	51	44	29
*	32	1 ½	27	10	30	58	49	33
	40	2	31	12	35	74	57	39
	50	2 ¼	35	14	40	83	66	46
	63	2 ¾	39	18	46	100	77	58



Adaptor union PVC-U metric BS

Model:

- Union End: Solvent cement socket metric
- Union Bush: Solvent cement socket BS inch
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)



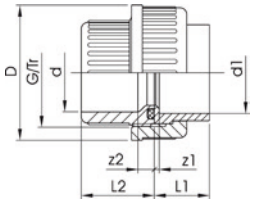
d (mm)	d1 (inch)	Size (inch)	PN (bar)	Code	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
16	⅜	⅜	15	**721 513 105**	0.025	¾	3	8	35	17	24
20	½	½	15	**721 513 106**	0.040	1	3	9	43	19	26
25	¾	¾	15	**721 513 107**	0.065	1 ¼	3	9	51	22	29
32	1	1	15	**721 513 108**	0.090	1 ½	3	9	58	25	33
40	1 ¼	1 ¼	15	**721 513 109**	0.155	2	3	10	72	29	39
50	1 ½	1 ½	15	**721 513 110**	0.200	2 ¼	3	10	83	34	46
63	2	2	15	**721 513 111**	0.341	2 ¾	3	10	100	41	58



Union PVC-U metric ASTM

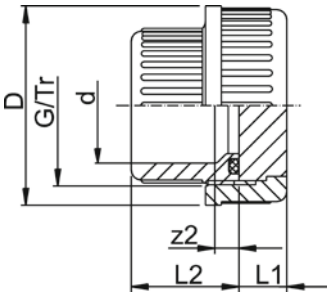
Model:

- Union End: Solvent cement socket ASTM
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)



d (mm)	d1 (inch)	Size (inch)	PN (bar)	Code	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
16	⅜	⅜	16	**721 514 105**	0.022	¾	3	10	35	22	24
20	½	½	16	**721 514 106**	0.042	1	3	10	43	25	26
25	¾	¾	16	**721 514 107**	0.065	1 ¼	3	10	51	28	29
32	1	1	16	**721 514 108**	0.103	1 ½	3	10	58	32	33
40	1 ¼	1 ¼	16	**721 514 109**	0.174	2	3	12	72	35	39
50	1 ½	1 ½	16	**721 514 110**	0.239	2 ¼	3	14	83	38	46
63	2	2	16	**721 514 111**	0.356	2 ¾	3	18	100	41	58





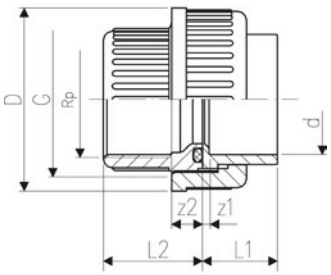
Union with union end blank PVC-U metric

Model:

- Union Bush: Solvent socket metric
- Jointing face: With O-ring groove
- Gasket: O-Ring EPDM code no. 748 410 004-016; d90 748 410 248; FKM: 749 410 004-016; d90 749 410 248

d (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	z2 (mm)	L2 (mm)	D (mm)	L1 (mm)	G/Tr (inch)
10		16	**721 510 003**	0.020	**721 510 028**	0.020	9	22	31	10	5/8
12		16	**721 510 004**	0.020	**721 510 029**	0.020	9	22	31	15	5/8
16		16	**721 510 005**	0.026	**721 510 030**	0.026	10	24	35	10	3/4
20		16	**721 510 006**	0.041	**721 510 031**	0.041	10	26	43	11	1
25		16	**721 510 007**	0.068	**721 510 032**	0.068	10	29	51	11	1 1/4
32		16	**721 510 008**	0.095	**721 510 033**	0.095	10	33	58	12	1 1/2
40		16	**721 510 009**	0.159	**721 510 034**	0.159	12	39	72	13	2
50		16	**721 510 010**	0.227	**721 510 035**	0.227	14	46	83	16	2 1/4
63		16	**721 510 011**	0.392	**721 510 036**	0.405	18	58	100	18	2 3/4
75	2 ½	10	**721 510 012**	0.679	**721 510 037**	0.693	18	62	135	22	Tr108x5
90		10	**721 510 213**	1.022	**721 510 238**	1.022	18	69	158	24	Tr128x5
110		10	**721 510 014**	1.556	**721 510 039**	1.573	11	72	188	26	Tr154x6





Adaptor union PVC-U metric Rp

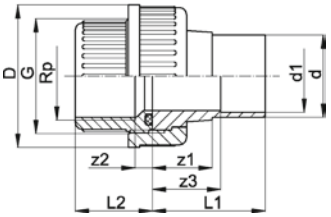
Model:

- Union End: Solvent cement socket metric
- Union Bush: Parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 004-011
- Gasket: O-ring FKM code no. 749 410 004-011 (to be ordered separately)
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
12	Rp	¼	10	**721 510 204**	0.019	⅝	3	12	31	15	22
16	Rp	⅜	10	**721 510 205**	0.020	¾	3	13	35	17	24
20	Rp	½	10	**721 510 206**	0.040	1	3	13	43	19	26
25	Rp	¾	10	**721 510 207**	0.057	1 ¼	3	14	51	22	29
32	Rp	1	10	**721 510 208**	0.084	1 ½	3	15	58	25	33
40	Rp	1 ¼	10	**721 510 209**	0.147	2	3	19	72	29	39
50	Rp	1 ½	10	**721 510 210**	0.218	2 ¼	3	26	83	34	46
63	Rp	2	10	**721 510 211**	0.383	2 ¾	3	33	100	41	58







PRO-FIT adaptor union PVC-U metric Rp

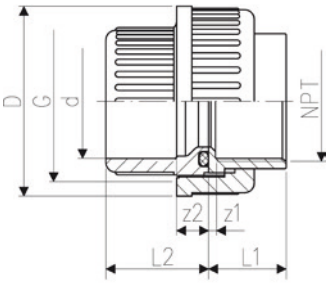
Model:

- Union End: Solvent cemented spigot in combination with reducing socket metric
- Union Bush: Threaded socket with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

	d (mm)	Thread Type	Size (inch)	PN (bar)	d1 (mm)	EPDM Code	Weight (kg)
*	16	Rp	⅜	10	12	**721 510 405**	0.032
*	20	Rp	½	10	16	**721 510 406**	0.046
*	25	Rp	¾	10	20	**721 510 407**	0.079
*	32	Rp	1	10	25	**721 510 408**	0.116
	40	Rp	1 ¼	10	32	**721 510 409**	0.192
	50	Rp	1 ½	10	40	**721 510 410**	0.263
	63	Rp	2	10	50	**721 510 411**	0.496

	d (mm)	G (inch)	z1 (mm)	z2 (mm)	z3 (mm)	D (mm)	L1 (mm)	L2 (mm)
*	16	¾	22	13	24	35	36	24
*	20	1	24	13	26	43	40	26
*	25	1 ¼	25	14	28	51	44	29
*	32	1 ½	27	15	30	58	49	32
	40	2	31	19	35	74	57	38
	50	2 ¼	35	26	40	83	66	45
	63	2 ¾	39	33	46	100	77	56





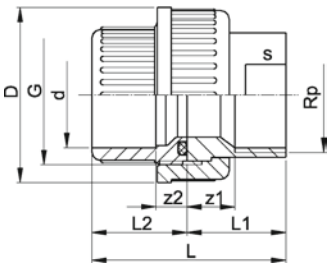
Adaptor union PVC-U metric NPT

Model:

- Union End: Taper female thread NPT (ASTM)
- Union Bush: Solvent socket metric
- Gasket: O-ring EPDM code no. 748 410 005-011
- Gasket: O-ring FKM code no. 749 410 005-011 (to be ordered separately)
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

d (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
16	NPT	⅜	10	**721 514 205**	0.026	¾	4	10	35	17	24
20	NPT	½	10	**721 514 206**	0.042	1	2	10	43	19	26
25	NPT	¾	10	**721 514 207**	0.068	1 ¼	4	10	51	22	29
32	NPT	1	10	**721 514 208**	0.093	1 ½	4	10	58	25	33
40	NPT	1 ¼	10	**721 514 209**	0.150	2	6	12	72	29	39
50	NPT	1 ½	10	**721 514 210**	0.228	2 ¼	11	14	83	34	46
63	NPT	2	10	**721 514 211**	0.387	2 ¾	17	18	100	41	58





Adaptor union PVC-U/stainless steel metric Rp

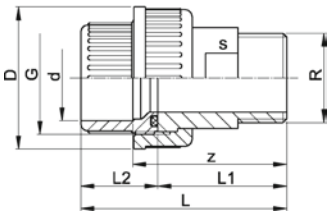
Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 005-011

d (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	Rp	⅜	16	**721 540 205**	0.053	**721 540 230**	0.053
20	Rp	½	16	**721 540 206**	0.096	**721 540 231**	0.096
25	Rp	¾	16	**721 540 207**	0.154	**721 540 232**	0.134
32	Rp	1	16	**721 540 208**	0.212	**721 540 233**	0.212
40	Rp	1 ¼	16	**721 540 209**	0.356	**721 540 234**	0.343
50	Rp	1 ½	16	**721 540 210**	0.455	**721 540 235**	0.455
63	Rp	2	16	**721 540 211**	0.730	**721 540 236**	0.721

d (mm)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)
16	¾	9	10	35	43	19	24	19
20	1	11	10	43	50	24	26	24
25	1 ¼	11	10	51	55	26	29	29
32	1 ½	12	10	58	61	29	33	36
40	2	14	12	72	71	33	39	45
50	2 ¼	15	14	83	79	34	46	54
63	2 ¾	15	18	100	95	39	58	63





Adaptor union PVC-U/stainless steel metric R

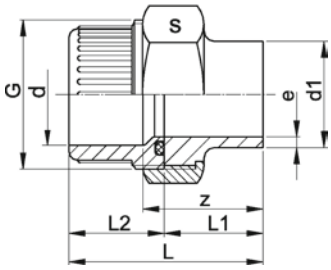
Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 005-011

d (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	R	⅜	16	**721 540 705**	0.073	**721 540 730**	0.073
20	R	½	16	**721 540 706**	0.126	**721 540 731**	0.126
25	R	¾	16	**721 540 707**	0.174	**721 540 732**	0.170
32	R	1	16	**721 540 708**	0.262	**721 540 733**	0.262
40	R	1 ¼	16	**721 540 709**	0.476	**721 540 734**	0.472
50	R	1 ½	16	**721 540 710**	0.535	**721 540 735**	0.535
63	R	2	16	**721 540 711**	0.934	**721 540 736**	0.931

d (mm)	G (inch)	z (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)
16	¾	40	35	54	30	24	19
20	1	44	43	60	34	26	24
25	1 ¼	46	51	65	36	29	32
32	1 ½	50	58	72	40	33	37
40	2	58	72	84	46	39	48
50	2 ¼	62	83	93	48	46	54
63	2 ¾	73	100	111	55	58	69





Adaptor union PVC-U metric/stainless steel metric welding end

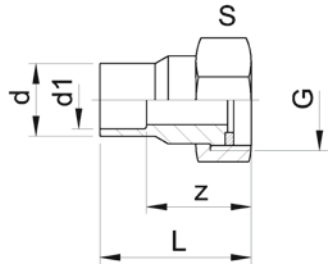
Model:

- Union Bush: Solvent cement socket PVC-U metric
- Union End: Stainless Steel 1.4404 (316L) with welding end
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-ring EPDM code no. 748 410 005-011

d (mm)	PN (bar)	d1 (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	16	17	**721 545 505**	0.101	**721 545 530**	0.101
20	16	21	**721 545 506**	0.176	**721 545 531**	0.168
25	16	27	**721 545 507**	0.204	**721 545 532**	0.198
32	16	34	**721 545 508**	0.313	**721 545 533**	0.313
40	16	42	**721 545 509**	0.493	**721 545 534**	0.493
50	16	48	**721 545 510**	0.566	**721 545 535**	0.605
63	16	60	**721 545 511**	0.902	**721 545 536**	0.902

d (mm)	G (inch)	z (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	s (mm)
16	¾	28	42	18	24	1.6	32
20	1	32	48	22	26	2.0	41
25	1 ¼	33	52	23	29	2.0	46
32	1 ½	36	58	26	33	2.0	55
40	2	38	64	26	39	2.0	68
50	2 ¼	42	73	28	46	2.0	74
63	2 ¾	50	88	32	58	2.6	88





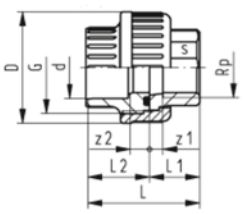
Tap connectors PVC-U/brass metric G

Model:

- Union End: PVC-U, solvent cement socket / spigot metric
- Union Nut: brass with female thread G
- Gasket: flat gasket EPDM code no. 748 400 030; 748 400 005-006

d (mm)	d1 (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
16	12	G	½	16	**721 550 305**	0.031	22	34	24
20	16	G	¾	16	**721 550 306**	0.049	24	38	30
25	20	G	1	16	**721 550 307**	0.079	27	43	38





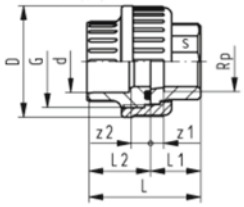
Adaptor union PVC-U/brass metric Rp

Model:

- Union Nut: PVC-U
- Union bush: Solvent cement socket metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)
20	Rp	½	16	**721 550 506**	0.088
25	Rp	¾	16	**721 550 507**	0.145
32	Rp	1	16	**721 550 508**	0.175
40	Rp	1 ¼	16	**721 550 509**	0.322

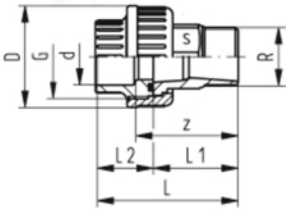
table continued on the next page



d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)
50	Rp	1 ½	16	**721 550 510**	0.467
63	Rp	2	16	**721 550 511**	0.776
75	Rp	2 ½	10	**721 550 512**	1.360
90	Rp	3	10	**721 550 513**	2.003

d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	s (mm)	z1 (mm)	z2 (mm)	G (inch)
20	43	48	22	26	25	7	10	1
25	51	54	25	29	30	9	10	1 1/4
32	58	60	27	33	36	8	11	1 1/2
40	72	70	31	39	46	10	13	2
50	83	81	35	46	55	13	15	2 1/4
63	100	98	40	58	65	14	20	2 3/4
75	127	109	47	62	85	16	18	Tr 108x5
90	150	121	52	69	95	18	18	Tr 128x5





Adaptor union PVC-U/brass metric R

Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)
20	R	½	16	**721 550 906**	0.125
25	R	½	16	**721 550 957**	0.196
25	R	¾	16	**721 550 907**	0.196
25	R	1	16	**721 550 967**	0.307
32	R	½	16	**721 550 958**	0.297
32	R	¾	16	**721 550 968**	0.297
32	R	1	16	**721 550 908**	0.283
40	R	1 ¼	16	**721 550 909**	0.502
50	R	1 ½	16	**721 550 910**	0.681
63	R	2	16	**721 550 911**	1.101
75	R	2 ½	10	**721 550 912**	1.706
90	R	3	10	**721 550 913**	2.662

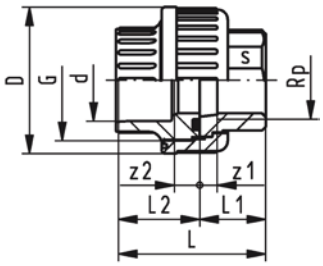
d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	G (inch)	s (mm)
20	43	63	37	26	47	1	25
25	51	66	37	29	47	1 1/4	30
25	51	71	42	29	52	1 1/4	30
25	51	75	46	29	56	1 1/4	30
32	58	70	37	33	48	1 1/2	36
32	58	75	42	33	53	1 1/2	36
32	58	79	46	33	57	1 1/2	36
40	72	91	52	39	65	2	46
50	83	102	56	46	71	2 1/4	55
63	100	125	67	58	87	2 3/4	65
75	127	139	77	62	95	Tr 108x5	85
90	150	155	86	69	104	Tr 125x8	95



Adaptor union PVC-U metric/malleable iron galvanised Rp

Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248



d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)
20	Rp	½	16	**721 530 306**	0.073
25	Rp	¾	16	**721 530 307**	0.107
32	Rp	1	16	**721 530 308**	0.154
40	Rp	1 ¼	16	**721 530 309**	0.282
50	Rp	1 ½	16	**721 530 310**	0.377
63	Rp	2	16	**721 530 311**	0.594
75	Rp	2 ½	10	**721 530 312**	1.008
90	Rp	3	10	**721 530 313**	1.350

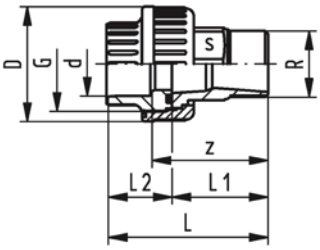
d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G (inch)	s (mm)
20	43	48	22	26	9	10	1	25
25	51	51	22	29	7	10	1 1/4	31
32	58	58	26	33	9	10	1 1/2	38
40	72	69	31	39	12	12	2	48
50	83	78	33	46	14	14	2 1/4	54
63	100	91	35	58	11	18	2 3/4	67
75	127	101	39	62	12	18	Tr 108x5	85
90	150	114	45	69	15	19	Tr 128x5	96



Adaptor union PVC-U metric/malleable iron galvanised R

Model:

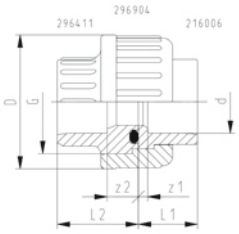
- Union Nut: PVC-U
- Union Bush: Solvent cement socket PVC-U metric
- Union End: Malleable iron with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-014; d90 748 410 248



d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)
20	R	½	16	**721 530 806**	0.107
25	R	¾	16	**721 530 807**	0.159
32	R	1	16	**721 530 808**	0.213
40	R	1 ¼	16	**721 530 809**	0.426
50	R	1 ½	16	**721 530 810**	0.528
63	R	2	16	**721 530 811**	0.863
75	R	2 ½	10	**721 530 812**	1.441
90	R	3	10	**721 530 813**	1.873

d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	G (inch)	s (mm)
20	43	66	40	26	50	1	25
25	51	72	43	29	53	1 1/4	31
32	58	80	48	33	58	1 1/2	38
40	72	95	57	39	69	2	48
50	83	104	59	46	73	2 1/4	54
63	100	118	62	58	80	2 3/4	67
75	127	137	75	62	93	Tr 108x5	85
90	150	149	80	69	99	Tr 128x5	96





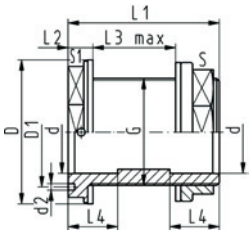
Thread union PVC-U Rp Rp

Model:

- Union Nut: PVC-U
- Union Bush: Parallel female thread Rp
- Union End: Parallel female thread Rp
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U
- Gasket: O-ring EPDM code no. 748 410 004-011
- Gasket: O-ring FKM code no. 749 410 004-011 (to be ordered separately)

Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
Rp	¼	10	**721 510 604**	0.019	⅝	3	12	31	22	15
Rp	⅜	10	**721 510 605**	0.027	¾	3	13	35	24	17
Rp	½	10	**721 510 606**	0.042	1	3	13	43	26	19
Rp	¾	10	**721 510 607**	0.065	1 ¼	3	14	51	29	22
Rp	1 ¼	10	**721 510 609**	0.160	2	3	19	72	38	29
Rp	1 ½	10	**721 510 610**	0.220	2 ¼	3	26	83	45	34
Rp	1	10	**721 510 608**	0.093	1 ½	3	15	58	32	25
Rp	2	10	**721 510 611**	0.415	2 ¾	3	33	100	56	41





Tank adaptor type 050 PVC-U Compact

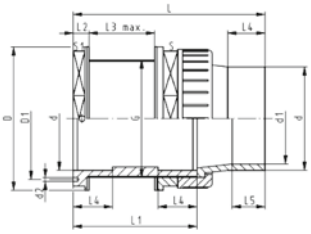
Model:

- End connection: solvent cement socket, metric
- Gasket: flat gasket EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- FKM flat gasket available for tank adaptor type 050

d (mm)	PN (bar)	EPDM Code	Weight (kg)
16	16	**161 050 445**	0.048
20	16	**161 050 446**	0.066
25	16	**161 050 447**	0.170
32	16	**161 050 448**	0.144
40	16	**161 050 449**	0.238
50	16	**161 050 450**	0.260
63	16	**161 050 451**	0.398

d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	D1 (mm)	S (mm)	D (mm)	L2 (mm)	S1 (mm)	L4 (mm)	L1 (mm)	d2 (mm)	G (inch)
16	28	28	29	32	44	11	40	14	58	5	¾
20	28	35	35	40	54	12	50	16	61	5	1
25	28	43	42	50	60	13	55	19	65	5	1 ¼
32	28	49	49	56	69	13	65	22	67	5	1 ½
40	29	61	59	69	84	13	80	26	72	5	2
50	30	67	70	76	92	15	85	31	76	5	2 ¼
63	35	83	82	95	108	15	100	38	84	5	2 ¾





Tank adaptor type 050 PVC-U
Reduced socket metric

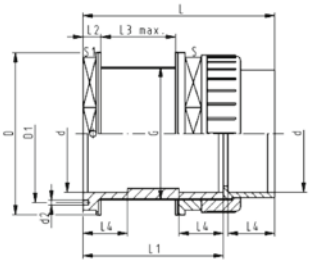
Model:

- Gaskets: flat gaskets EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- FKM flat gaskets available for tank adaptor type 050

d (mm)	PN (bar)	d1 (mm)	EPDM Code	Weight (kg)
16	16	12	**161 050 345**	0.068
20	16	16	**161 050 346**	0.102
25	16	20	**161 050 347**	0.157
32	16	25	**161 050 348**	0.220
40	16	32	**161 050 349**	0.353
50	16	40	**161 050 350**	0.438
63	16	50	**161 050 351**	0.680

d (mm)	L (mm)	D (mm)	L1 (mm)	L5 (mm)	L4 (mm)	S1 (mm)	L2 (mm)	S (mm)	D1 (mm)	Diameter of bore in tank side (mm)	L3 max (mm)	G (inch)	d2 (mm)
16	96	44	58	12	14	40	11	32	29	28	19	¾	5
20	104	54	61	14	16	50	12	40	35	35	17	1	5
25	112	60	65	16	19	55	13	50	42	43	18	1 ¼	5
32	119	69	67	19	22	65	13	56	49	49	19	1 ½	5
40	132	84	72	22	26	80	13	69	59	61	16	2	5
50	145	92	76	26	31	85	15	76	70	67	16	2 ¼	5
63	163	108	84	31	38	100	15	95	82	83	19	2 ¾	5





Tank adaptor type 050 PVC-U metric with O-Ring

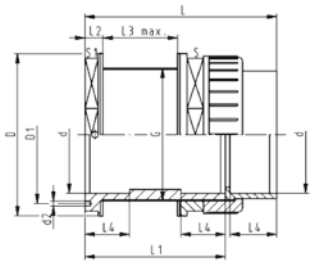
Model:

- Gaskets: O-ring EPDM, flat gasket EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- For round tanks

d (mm)	PN (bar)	Code	Weight (kg)
16	16	**161 050 385**	0.040
20	16	**161 050 386**	0.070
25	16	**161 050 387**	0.160
32	16	**161 050 388**	0.200
40	16	**161 050 389**	0.240
50	16	**161 050 390**	0.400
63	16	**161 050 391**	0.530

d (mm)	G (inch)	d2 (mm)	D1 (mm)	S (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	S1 (mm)	L4 (mm)	L (mm)	L2 (mm)	L1 (mm)	D (mm)
16	¾	5	29	32	19	28	40	14	77	11	58	44
20	1	5	35	40	17	35	50	16	83	12	61	54
25	1 ¼	5	42	50	18	43	55	19	90	13	65	60
32	1 ½	5	49	56	19	49	65	22	95	13	67	69
40	2	5	59	69	16	61	80	26	104	13	72	84
50	2 ¼	5	70	76	16	67	85	31	113	15	76	92
63	2 ¾	5	82	95	19	83	100	38	128	15	84	108





Tank adaptor type 050 PVC-U cementing socket metric

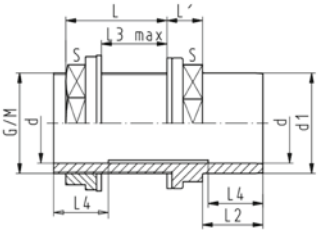
Model:

- Gaskets: flat gaskets EPDM
- Washer: PP
- Run-out holes: two holes in octagonal head
- FKM flat gaskets available for tank adaptor type 050

d (mm)	PN (bar)	Code	Weight (kg)
16	16	**161 050 245**	0.064
20	16	**161 050 246**	0.070
25	16	**161 050 247**	0.100
32	16	**161 050 248**	0.196
40	16	**161 050 249**	0.328
50	16	**161 050 250**	0.395
63	16	**161 050 251**	0.530

d (mm)	L (mm)	L2 (mm)	L1 (mm)	D (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	S1 (mm)	L4 (mm)	d2 (mm)	D1 (mm)	S (mm)	G (inch)
16	77	11	58	44	19	28	40	14	5	29	32	¾
20	83	12	61	54	17	35	50	16	5	35	40	1
25	90	13	65	60	18	43	55	19	5	42	50	1 ¼
32	95	13	67	69	19	49	65	22	5	49	56	1 ½
40	104	13	72	84	16	61	80	26	5	59	69	2
50	113	15	76	92	16	67	85	31	5	70	76	2 ¼
63	128	15	84	108	19	83	100	38	5	82	95	2 ¾





Tank adaptor adjustable PVC-U

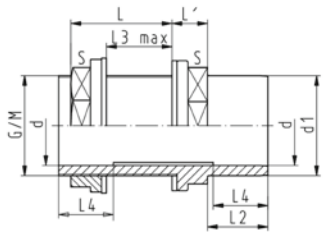
Model:

- Gasket: flat gasket EPDM
- Washer: PP
- Spare parts on request

d (mm)	Size (inch)	d1 (mm)	Code	Weight (kg)
20	¾	25	**161 050 206**	0.046
25	1	32	**161 050 207**	0.066
32	1 ¼	40	**161 050 208**	0.106
40	1 ¾	50	**161 050 209**	0.190
50	2	63	**161 050 210**	0.248
63	2 ½	75	**161 050 211**	0.352
75	3	90	**161 050 212**	0.539
90		110	**161 050 213**	1.083
110		125	**161 050 214**	1.350

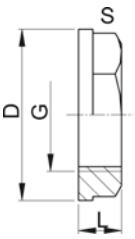
d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	G (inch)	L1 (mm)	L2 (mm)	L (mm)	L4 (mm)	s (mm)	M
20	23	28	¾	13	19	42	16	32	
25	23	35	1	15	22	45	19	40	
32	24	43	1 ¼	17	26	49	22	50	
40	21	55	1 ¾	19	31	48	26	60	
50	21	61	2	21	38	52	31	69	

table continued on the next page



d (mm)	L3 max (mm)	Diameter of bore in tank side (mm)	G (inch)	L1 (mm)	L2 (mm)	L (mm)	L4 (mm)	s (mm)	M
63	23	77	2 ½	23	44	53	38	85	
75	20	89	3	26	51	56	44	100	
90	20	115		32	61	62	51	125	M113
110	22	135		36	69	66	61	147	M133





Backing nut PVC-U tank adaptor

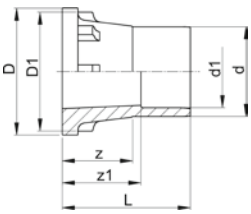
Model:

- With G thread ISO 228/1
- Spare part for tank adaptor type 050

Thread Type	Size (inch)	M	Code	Weight (kg)	D (mm)	L (mm)	s (mm)
G	¾		**161 490 630**	0.007	39	13	32
G	1		**161 490 632**	0.012	48	15	40
G	1 ¼		**161 490 634**	0.019	58	17	50
G	1 ½		**161 490 635**	0.027	65	18	56
G	1 ¾		**161 490 636**	0.036	72	19	64
G	2		**161 490 637**	0.043	79	21	69
G	2 ¼		**161 490 638**	0.053	86	21	76
G	2 ½		**161 490 639**	0.063	94	23	85
G	2 ¾		**161 490 640**	0.092	106	25	95
G	3		**161 490 641**	0.101	112	26	100
G	4		**161 490 644**	0.164	139	32	126







Spigot union end PVC-U metric

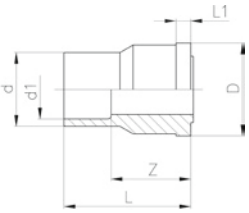
Model:

- Solvent cement spigot in combination with reducing socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514

	d (mm)	PN (bar)	d1 (mm)	Code	Weight (kg)	z (mm)	z1 (mm)	D (mm)	D1 (mm)	L (mm)
*	16	16	12	**721 500 405**	0.010	22	24	24	22	36
*	20	16	16	**721 500 406**	0.009	24	26	30	28	40
*	25	16	20	**721 500 407**	0.026	25	28	39	36	44
*	32	16	25	**721 500 408**	0.035	27	30	45	42	49
	40	16	32	**721 500 409**	0.055	31	35	57	53	57
	50	16	40	**721 500 410**	0.085	35	40	63	59	66
	63	16	50	**721 500 411**	0.108	39	46	79	74	77

Union end PVC-U metric
For tap connector code no. 721 550 305-307



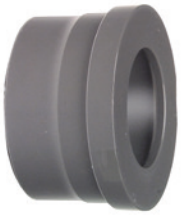


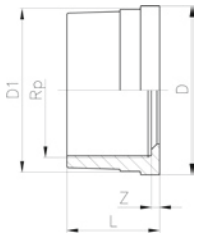
Model:

- For tap connector code no. 721 550 305-307

d (mm)	PN (bar)	d1 (mm)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)	L1 (mm)
16	16	12	**721 600 305**	0.005	22	19	34	3
20	16	16	**721 600 306**	0.009	24	24	38	5
25	16	20	**721 600 307**	0.016	27	30	43	5

Union end PVC-U Rp



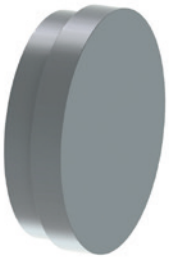


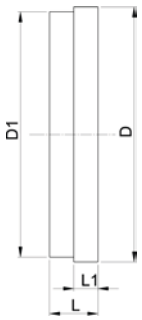
Model:

- Parallel female thread Rp

Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
Rp	¼	10	**721 600 654**	0.004	5	20	18	15
Rp	⅜	10	**721 600 655**	0.005	6	24	22	17
Rp	½	10	**721 600 656**	0.010	6	30	28	19
Rp	¾	10	**721 600 657**	0.015	7	39	36	22
Rp	1	10	**721 600 658**	0.019	8	45	42	25
Rp	1 ¼	10	**721 600 659**	0.038	10	57	53	29
Rp	1 ½	10	**721 600 660**	0.057	11	63	59	34
Rp	2	10	**721 600 661**	0.102	18	78	74	41

Union end blank PVC-U



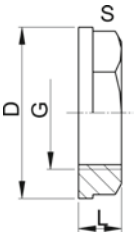


Model:

- For unions, tank adaptor and diaphragm valve type 514
- Flat sealing faces

d (mm)	DN (mm)	PN (bar)	Inch (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
10/12		16	1/8	**721 600 004**	0.006	20	18	9	4
16	10	16	3/8	**721 600 005**	0.004	24	22	10	5
20	15	16	1/2	**721 600 006**	0.009	30	28	11	5
25	20	16	3/4	**721 600 007**	0.017	39	36	11	6
32	25	16	1	**721 600 008**	0.025	45	42	12	6
40	32	16	1 1/4	**721 600 009**	0.042	57	53	13	7
50	40	16	1 1/2	**721 600 010**	0.061	63	59	16	7
63	50	16	2	**721 600 011**	0.108	78	74	18	8
75	65	10	2 1/2	**721 600 012**	0.216	101	90	22	10
90	80	10	3	**721 600 013**	0.333	121	108	24	11
110	100	10	4	**721 600 014**	0.530	146	131	26	12





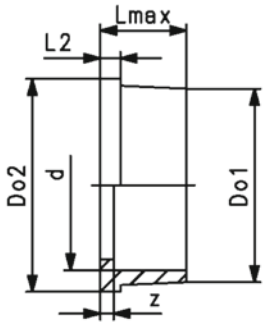
Backing nut PVC-U tank adaptor

Model:

- With G thread ISO 228/1
- Spare part for tank adaptor type 050

Thread Type	Size (inch)	M	Code	Weight (kg)	D (mm)	L (mm)	s (mm)
G	¾		**161 490 630**	0.007	39	13	32
G	1		**161 490 632**	0.012	48	15	40
G	1 ¼		**161 490 634**	0.019	58	17	50
G	1 ½		**161 490 635**	0.027	65	18	56
G	1 ¾		**161 490 636**	0.036	72	19	64
G	2		**161 490 637**	0.043	79	21	69
G	2 ¼		**161 490 638**	0.053	86	21	76
G	2 ½		**161 490 639**	0.063	94	23	85
G	2 ¾		**161 490 640**	0.092	106	25	95
G	3		**161 490 641**	0.101	112	26	100
G	4		**161 490 644**	0.164	139	32	126





ecoFIT Union end PE80 d20-63mm

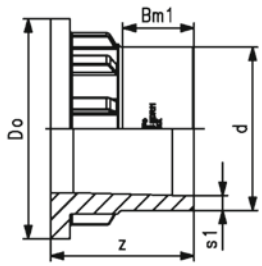
Model:

- With fusion socket metric
- Suitable for unions, tank connectors and diaphragm valves Type 514

*Only for variable area flow meters

	d (mm)	Do1 (mm)	Do2 (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L2 (mm)	Lmax (mm)	z (mm)
	20	28	30	15	10	**734 600 106**	0.006	5	19	5
	25	36	39	20	10	**734 600 107**	0.013	5	21	5
	32	42	45	25	10	**734 600 108**	0.015	6	23	5
	40	53	57	32	10	**734 600 109**	0.026	6	25	5
	50	59	63	40	10	**734 600 110**	0.027	7	28	5
	63	74	79	50	10	**734 600 111**	0.044	8	32	5
*	75	90		65	10	**700 246 419**	0.163		47	3





ecoFIT Union end PE100 d20-110mm / SDR11

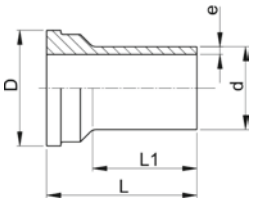
Model:

- Conventional butt-welding according to DVS 2207
- IR = Infrared- (IR Plus) compatible.

*Only for variable area flow meters

	d (mm)	DN (mm)	PN (bar)	FM	Code	Weight (kg)	Do (mm)	s1 (mm)	Z (mm)	Bm1 (mm)
	20	15	16	IR	**753 508 606**	0.011	30.0	1.9	54	38
	25	20	16	IR	**753 508 607**	0.018	39.0	2.3	57	42
	32	25	16	IR	**753 508 608**	0.027	45.0	2.9	60	41
	40	32	16	IR	**753 508 609**	0.044	57.0	3.7	63	42
	50	40	16	IR	**753 508 610**	0.061	63.0	4.6	66	44
	63	50	16	IR	**753 508 611**	0.100	78.0	5.8	69	45
	75	65	10	IR	**753 508 212**	0.144	101.5	6.8	66	34
*	75	65	10	IR	**700 246 420**	0.300	101.0	6.8	66	34
	90	80	10	IR	**753 508 213**	0.158	101.5	8.2	65	55
	110	100	10	IR	**753 508 214**	0.230	121.0	10.0	65	55





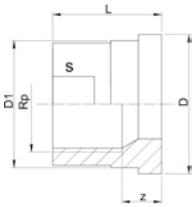
ecoFIT Union end PE100
d75-110mm / SDR17

Model:

- IR = Infrared- (IR Plus) compatible.
- Conventional butt-welding according to DVS 2207

d (mm)	DN (mm)	PN (bar)	SDR	FM	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	e (mm)
75	65	10	17	IR	**753 508 112**	0.125	101.5	66	34	4.5
90	80	10	17	IR	**753 508 113**	0.136	101.5	65	55	5.4
110	100	10	17	IR	**753 508 114**	0.190	121.0	65	55	6.7





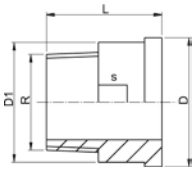
Union end stainless steel Rp

Model:

- Material: stainless steel 1.4404 (316L)
- Parallel female thread Rp

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)	s (mm)
16	Rp	⅜	16	**724 600 655**	0.030	9	24	22	19	19
20	Rp	½	16	**724 600 656**	0.060	11	30	28	24	24
25	Rp	¾	16	**724 600 657**	0.092	11	39	36	26	29
32	Rp	1	16	**724 600 658**	0.137	12	45	42	29	36
40	Rp	1 ¼	16	**724 600 659**	0.226	14	57	53	33	45
50	Rp	1 ½	16	**724 600 660**	0.314	15	63	59	34	54
63	Rp	2	16	**724 600 661**	0.438	15	78	74	39	63





Union end stainless steel R

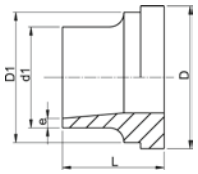
Model:

- Material: stainless steel 1.4404 (316L)
- Taper male thread R

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	s (mm)
16	R	⅜	16	**724 600 705**	0.052	24	22	30	19
20	R	½	16	**724 600 706**	0.083	30	28	34	24
25	R	¾	16	**724 600 707**	0.125	39	36	36	32
32	R	1	16	**724 600 708**	0.189	45	42	40	37
40	R	1 ¼	16	**724 600 709**	0.356	57	53	46	48
50	R	1 ½	16	**724 600 710**	0.407	63	59	48	54
63	R	2	16	**724 600 711**	0.668	78	74	55	69

Union end stainless steel welding end





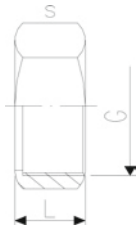
Model:

- Material: stainless steel 1.4404 (316L)

d (mm)	PN (bar)	d1 (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	e (mm)
16	16	17	**724 605 505**	0.029	24	22	18	1.6
20	16	21	**724 605 506**	0.046	30	28	22	2.0
25	16	27	**724 605 507**	0.080	39	36	23	2.0
32	16	34	**724 605 508**	0.112	45	42	26	2.0
40	16	42	**724 605 509**	0.188	57	53	26	2.0
50	16	48	**724 605 510**	0.222	63	59	28	2.0
63	16	60	**724 605 511**	0.361	78	74	32	2.6

Union nut stainless steel 1.4404 (316L)



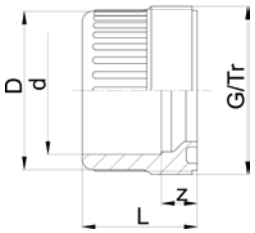


* Octagon union nut

	d (mm)	PN (bar)	Code	Weight (kg)	G (inch)	closest inch (inch)	L (mm)	s (mm)
	16	16	**724 690 105**	0.060	¾	⅜	19	32
	20	16	**724 690 106**	0.105	1	½	21	41
	25	16	**724 690 107**	0.091	1 ¼	¾	23	46
	32	16	**724 690 108**	0.170	1 ½	1	24	55
*	40	16	**724 690 109**	0.218	2	1 ¼	27	68
*	50	16	**724 690 110**	0.316	2 ¼	1 ½	31	74
*	63	16	**724 690 111**	0.364	2 ¾	2	35	88

Union bush PVC-U metric



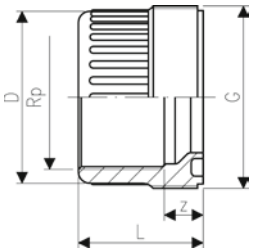


Model:

- Solvent cement socket metric
- Jointing face: with O-ring groove
- Gasket: O-ring EPDM code no. 748 410 004-016; d90 748 410 248

d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)	G/Tr (inch)
10		16	**721 840 103**	0.002	10	20	22	5/8
12		16	**721 840 104**	0.007	10	20	22	5/8
16		16	**721 840 105**	0.009	10	24	24	3/4
20		16	**721 840 106**	0.014	10	29	26	1
25		16	**721 840 107**	0.020	10	34	29	1 1/4
32		16	**721 840 108**	0.032	10	42	33	1 1/2
40		16	**721 840 109**	0.057	12	52	39	2
50		16	**721 840 110**	0.073	14	62	46	2 1/4
63		16	**721 840 111**	0.137	18	78	58	2 3/4
75	2 ½	10	**721 840 112**	0.210	18	93	62	Tr108x5
90		10	**721 840 123**	0.355	18	110	69	Tr128x5
110		10	**721 840 114**	0.445	11	133	72	Tr154x6





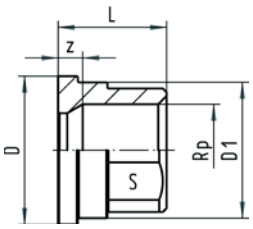
Union bush PVC-U Rp

Model:

- With parallel female thread Rp
- Jointing face: with O-ring groove
- Gasket: O-ring EPDM code no. 748 410 004-011
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	G (inch)	z (mm)	D (mm)	L (mm)
Rp	¼	10	**721 840 604**	0.007	⅝	12	20	22
Rp	⅜	10	**721 840 605**	0.009	¾	13	24	24
Rp	½	10	**721 840 606**	0.013	1	13	29	26
Rp	¾	10	**721 840 607**	0.026	1 ¼	14	34	29
Rp	1	10	**721 840 608**	0.036	1 ½	15	42	32
Rp	1 ¼	10	**721 840 609**	0.063	2	19	53	38
Rp	1 ½	10	**721 840 610**	0.098	2 ¼	26	63	45
Rp	2	10	**721 840 611**	0.187	2 ¾	33	78	56



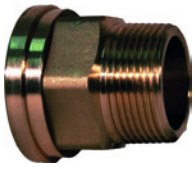


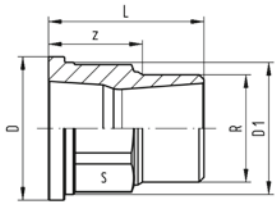
Union end brass Rp

Model:

- Union End: Brass with parallel female thread Rp

d (mm)	Thread Type	Size (inch)	Code	Weight (kg)	L (mm)	s (mm)	D (mm)	D1 (mm)	z (mm)
20	Rp	½	**720 600 236**	0.059	22	25	30	28	5
25	Rp	¾	**720 600 237**	0.100	25	30	39	36	6
32	Rp	1	**720 600 238**	0.128	27	36	45	42	6
40	Rp	1 ¼	**720 600 239**	0.211	31	46	56	53	7
50	Rp	1 ½	**720 600 240**	0.324	35	55	62	59	7
63	Rp	2	**720 600 241**	0.510	40	65	78	74	8
75	Rp	2 ½	**720 600 242**	0.893	47	85	100	92	10
90	Rp	3	**720 600 243**	1.395	52	95	121	110	11





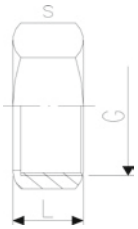
Union end brass R

Model:

- Union End: Brass with taper male thread R

d (mm)	Thread Type	Size (inch)	Code	Weight (kg)	z (mm)	D1 (mm)	D (mm)	s (mm)	L (mm)
20	R	½	**720 600 246**	0.092	22	28	30	25	37
25	R	¾	**720 600 247**	0.151	25	36	39	30	42
25	R	½	**720 600 257**	0.142	27	36	39	30	42
32	R	1	**720 600 248**	0.216	28	42	45	36	46
32	R	½	**720 600 258**	0.113	31	42	45	36	46
32	R	¾	**720 600 268**	0.206	30	42	45	36	46
40	R	1 ¼	**720 600 249**	0.408	32	53	56	46	52
50	R	1 ½	**720 600 250**	0.538	36	59	62	55	56
63	R	2	**720 600 251**	0.859	42	74	78	65	67
75	R	2 ½	**720 600 252**	1.446	49	92	100	85	77
90	R	3	**720 600 253**	2.063	54	110	121	95	86



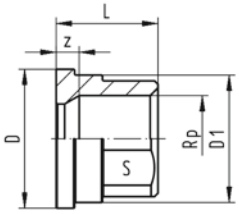


Union nut, brass

- d12 - d20 for tap connector No. 21 55 03

PN (bar)	d (mm)	G (inch)	Code	Weight (kg)	L (mm)	s (mm)
16	16	½	**720 690 405**	0.024	16	24
16	16	¾	**720 690 005**	0.040	17	30
16	20	1	**720 690 006**	0.065	19	38
16	25	1 ¼	**720 690 007**	0.105	20	47
16	32	1 ½	**720 690 008**	0.102	22	52
16	40	2	**720 690 009**	0.199	25	66
16	50	2 ¼	**720 690 010**	0.268	25	72
16	63	2 ¾	**720 690 011**	0.280	27	87
16	75	3 ½	**720 690 012**	0.675	34	110





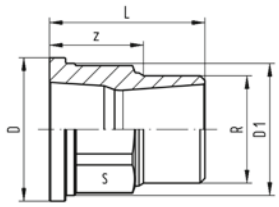
Union end malleable iron galvanized Rp

Model:

- Union End: malleable iron with parallel female thread Rp

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	s (mm)	z (mm)	D1 (mm)
20	Rp	½	16	**724 600 206**	0.037	30	22	25	9	27
25	Rp	¾	16	**724 600 207**	0.072	39	22	31	7	36
32	Rp	1	16	**724 600 208**	0.088	44	26	38	9	41
40	Rp	1 ¼	16	**724 600 209**	0.172	56	31	48	12	52
50	Rp	1 ½	16	**724 600 210**	0.210	62	33	54	14	58
63	Rp	2	16	**724 600 211**	0.324	78	35	67	11	73
75	Rp	2 ½	16	**724 600 212**	0.557	100	39	85	12	92
90	Rp	3	16	**724 600 213**	0.650	110	45	96	15	104





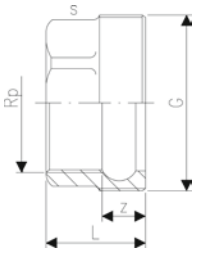
Union end malleable iron galvanized R

Model:

- Union End: Malleable iron with taper male thread R

d (mm)	Thread Type	Size (inch)	Code	Weight (kg)	D (mm)	L (mm)	D1 (mm)	z (mm)	s (mm)
20	R	½	**724 600 806**	0.069	30	40	27	25	23
25	R	¾	**724 600 807**	0.115	39	43	36	27	30
32	R	1	**724 600 808**	0.161	44	48	41	29	36
40	R	1 ¼	**724 600 809**	0.294	56	57	52	36	48
50	R	1 ½	**724 600 810**	0.353	62	59	58	37	54
63	R	2	**724 600 811**	0.570	78	62	73	36	66
75	R	2 ½	**724 600 812**	0.980	97	75	92	45	85
90	R	3	**724 600 813**	1.217	110	80	104	47	95





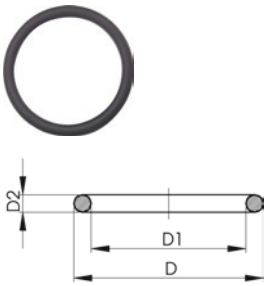
Union bush malleable iron galvanized Rp

Model:

- Parallel female thread Rp

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	G (inch)	z (mm)	s (mm)	L (mm)
20	Rp	½	16	**724 630 606**	0.058	1	12	25	25
25	Rp	¾	16	**724 630 607**	0.100	1 ¼	13	31	28
32	Rp	1	16	**724 630 608**	0.127	1 ½	14	28	31
40	Rp	1 ¼	16	**724 630 609**	0.204	2	14	47	33
50	Rp	1 ½	16	**724 630 610**	0.268	2 ¼	17	53	36
63	Rp	2	16	**724 630 611**	0.443	2 ¾	18	66	42
75	Rp	2 ½	16	**724 630 612**	0.679	3 ½	19	82	46
90	Rp	3	16	**724 630 613**	0.913	4	22	96	52

Seals



O-ring EPDM/FKM

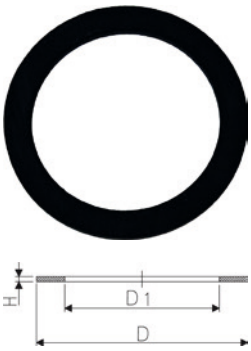
Model:

- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

* For unions PVC-U, PVC-C and ABS: 21 51 01, 21 51 11, 21 53 03, 21 53 08, 21 55 04, 21 55 13, 21 55 18, 23 51 01 and 29 51 01 only

	d (mm)	DN (mm)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	10 - 12	8	**748 410 004**	0.002	**749 410 004**	0.020
	16	10	**748 410 005**	0.002	**749 410 005**	0.002
	20	15	**748 410 006**	0.002	**749 410 006**	0.002
	25	20	**748 410 007**	0.002	**749 410 007**	0.002
	32	25	**748 410 008**	0.003	**749 410 008**	0.002
	40	32	**748 410 009**	0.003	**749 410 009**	0.007
	50	40	**748 410 010**	0.004	**749 410 010**	0.060
	63	50	**748 410 011**	0.005	**749 410 011**	0.003
*	90	80	**748 410 248**	0.002	**749 410 248**	0.020

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	closest inch (inch)
	10 - 12	17.62	12.37	2.62	¼
	16	20.78	15.54	2.62	⅜
	20	27.28	20.22	3.53	½
	25	35.23	28.17	3.53	¾
	32	39.99	32.93	3.53	1
	40	51.33	40.65	5.34	1 ¼
	50	57.68	46.99	5.34	1 ½
	63	70.37	59.69	5.34	2
*	90	105.30	94.62	5.34	3



Flat gasket

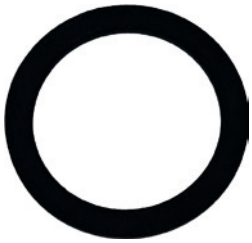
Model:

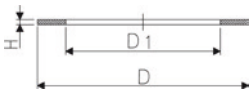
- Hardness approx. 65° Shore
- For tap connectors No. 21 55 03

Attention:

- For tap connector d16 - 1/2": 748 400 030
- For tap connector d20 - 3/4": 748 400 005
- For tap connector d25 - 1": 748 400 006

d (mm)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)
16	**748 400 030**	0.020	18	14	2
16	**748 400 005**	0.002	24	17	2
20	**748 400 006**	0.002	30	21	3



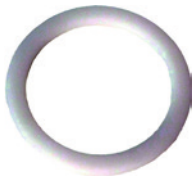


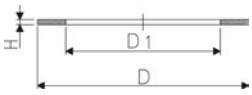
Flat Gasket inside the tank EPDM/FKM
For tank adaptors type 050

Model:

- Hardness approx. 65° Shore
- Dimension size "inch" correspond with the thread dimension "G" of the tank adaptor

Size (inch)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)
1	**748 400 042**	0.003	**749 400 042**	0.003	46	34	3
1 ¼			**749 400 009**	0.003	55	42	3
1 ½	**748 400 043**	0.005	**749 400 043**	0.009	69	49	3
2			**749 400 011**	0.006	78	60	3
2 ¼	**748 400 044**	0.008	**749 400 044**	0.009	90	64	3
2 ¾	**748 400 045**	0.011	**749 400 045**	0.011	106	82	3





Washer PP
For tank adaptor

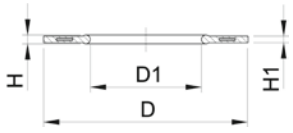
Model:

- Spare part for tank adaptor type 050

d (inch)	Code	Weight (kg)	H (mm)	D1 (mm)	D (mm)
3/4	**727 490 005**	0.002	3	27	39
1	**727 490 006**	0.002	3	34	47
1 1/4	**727 490 007**	0.300	3	43	58
1 3/4	**727 490 008**	0.024	4	55	72
2	**727 490 009**	0.470	4	61	79
2 1/4	**727 490 010**	0.007	4	67	86
2 1/2	**727 490 011**	0.560	4	77	95
3	**727 490 012**	0.013	5	90	112
M113	**727 490 013**	0.021	5	115	139
M133	**727 490 014**	0.025	5	135	160







Profile Flange Gasket EPDM/FKM
metric

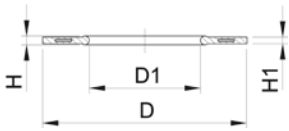
Model:

- For all metric GF Flange Adaptors
- Hardness: 70° Shore EPDM, 75° Shore FKM
- EPDM: approved acc. to DVGW Water W 270, KTW recommendation
- Centering on the inner diameter of the screw crown
- material steel insert: carbon steel
- Rubber-steel body combined with rubber profile cord ring up to d630
- Rubber-steel body ideal for big dimensions (d710 - d1000)

di FA are the suitable inner diameters of flanges adaptors

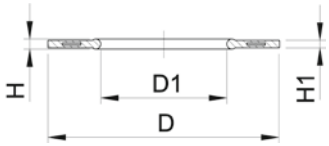
d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
16	10	16	**748 440 705**	**749 440 705**	0.012	46	16	6 - 16	4	3
25	20	10	**748 440 707**	**749 440 707**	0.014	61	22	12 - 22	4	3
32	25	16	**748 440 708**	**749 440 708**	0.019	71	28	18 - 28	4	3
50	40	16	**748 440 710**	**749 440 710**	0.039	92	46	36 - 46	4	3
63	50	16	**748 440 711**	**749 440 711**	0.050	107	58	48 - 58	5	4
75	65	16	**748 440 712**	**749 440 712**	0.082	127	69	59 - 69	5	4
90	80	16	**748 440 713**	**749 440 713**	0.083	142	84	73 - 84	5	4
110	100	16	**748 440 714**	**749 440 714**	0.127	162	104	94 - 104	6	5
125	100	16	**748 440 715**	**749 440 715**	0.105	162	123	113 - 123	6	5
140	125	16	**748 440 716**	**749 440 716**	0.173	192	137	127 - 137	6	5
160	150	16	**748 440 717**	**749 440 717**	0.207	218	160	150 - 160	8	6

table continued on the next page



d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
200	200	16	**748 440 719**	**749 440 719**	0.263	273	203	192 - 203	8	6
225	200	16	**748 440 720**	**749 440 720**	0.255	273	220	207 - 220	8	6
250	250	16	**748 440 721**	**749 440 721**	0.462	328	252	238 - 252	8	6
280	250	16	**748 440 722**	**749 440 722**	0.323	328	274	264 - 274	8	6
315	300	16	**748 440 723**	**749 440 723**	0.549	378	306	296 - 306	8	6
355	350	16	**748 440 724**	**749 440 724**	0.870	438	355	340 - 355	10	7
400	400	16	**748 440 725**	**749 440 725**	1.088	489	400	385 - 400	10	7
450	500	10	**748 440 726**	**749 440 726**	0.718	594	403	393 - 403	10	7
500	500	10	**748 440 727**	**749 440 727**	0.718	594	447	437 - 447	10	7
560	600	10	**748 440 728**	**749 440 728**	0.923	695	494	484 - 494	10	7
630	600	10	**748 440 729**	**749 440 729**	0.923	695	555	545 - 555	10	7
710	700	6	**748 440 730**		0.890	810	712	562 - 712	6	3
800	800	6	**748 440 731**		1.340	917	813	663 - 813	6	3
900	900	6	**748 440 732**		1.170	1017	915	765 - 915	6	3
1000	1000	6	**748 440 733**		1.360	1124	1016	866 - 1016	6	3





Profile Flange Gasket, metric
MPTFE envelope / EPDM inside

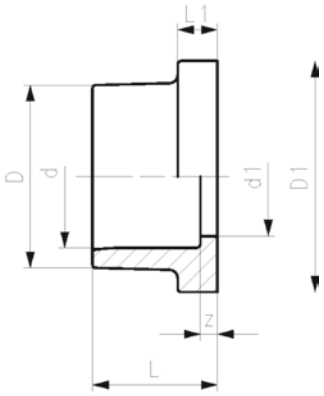
Model:

- For all metric GF Flange Adaptors
- Centering on the inner diameter of the bolt circle
- Envelope made of modified PTFE with diffusion barrier
- Ideal for aggressive media, High-Purity and silicone-free / paint compatible (acc. VDMA test)
- EPDM Profile Flange Gasket inside
- Individually bagged
- Suitable for contact with food stuff (conform to FDA 21 § 177.1550)

d (mm)	DN (mm)	PN (bar)	MPTFE/ EPDM Code	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
20	15	16	**747 440 706**	51	20	10 - 20	4	3
25	20	16	**747 440 707**	61	22	12 - 22	4	3
32	25	16	**747 440 708**	71	28	18 - 28	4	3
40	32	16	**747 440 709**	82	40	30 - 40	4	3
52	40	16	**747 440 710**	92	46	36 - 46	4	3
63	50	16	**747 440 711**	107	58	48 - 58	5	4
75	65	16	**747 440 712**	127	69	59 - 69	5	4
90	80	16	**747 440 713**	142	84	73 - 84	5	4
110	100	16	**747 440 714**	162	104	94 - 104	6	5
125	100	16	**747 440 715**	162	123	113 - 123	6	5
140	125	16	**747 440 716**	192	137	127 - 137	6	5
160	150	16	**747 440 717**	218	160	150 - 160	8	6
200	200	16	**747 440 719**	273	203	192 - 203	8	6
225	200	16	**747 440 720**	273	220	207 - 220	8	6
250	250	16	**747 440 721**	328	252	238 - 252	8	6
280	250	16	**747 440 722**	328	274	264 - 274	8	6
315	300	16	**747 440 723**	378	306	296 - 306	8	6
355	350	16	**747 440 724**	438	355	340 - 355	10	7
400	400	16	**747 440 725**	489	400	385 - 400	10	7

Flange adaptors and flanges





Flange adaptor PVC-U
Combined jointing face flat and serrated metric

Model:

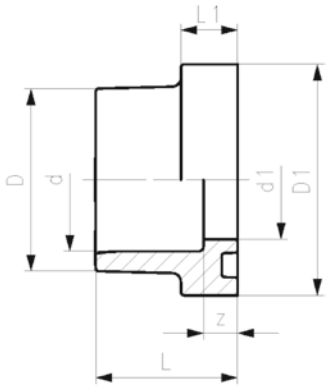
- Solvent cement socket metric
- d16 - d50: Sealing surface flat
- d63 - d400: combined jointing face flat and serrated
- Combination with gasket: profile flange gasket EPDM code no. 748 440 705-725, FKM code no. 749 440 705-725 or flat gasket EPDM code no. 748 440 705-725, only use O-ring EPDM code no. 748 410 000-174, FKM code no. 749 410 000-174 in combination with conterpart flange adaptor code no. 721 810 105-123
- Combination with flanges (metric & ANSI): PVC-U, PP-V, PP-Steel

Note:

* bevel on pipe may be needed if used with butterfly valve type 037/038/039
The flat gasket affects the maximum allowable operating pressure!

	d (inch)	d (mm)	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
		16		10	16	**721 800 105**	0.006	22	29	13	17	6	3
		20		15	16	**721 800 106**	0.009	27	34	16	19	6	3
		25		20	16	**721 800 107**	0.015	33	41	21	22	7	3
		32		25	16	**721 800 108**	0.024	41	50	28	25	7	3
		40		32	16	**721 800 109**	0.039	50	61	36	29	8	3
		50		40	16	**721 800 110**	0.056	61	73	45	34	8	3
		63		50	16	**721 790 111**	0.103	77	90	57	41	9	3
	2 ½	75	2 ½	65	16	**721 790 112**	0.159	91	106	69	47	10	3
		90		80	16	**721 790 113**	0.253	108	125	82	56	11	5
		110		100	16	**721 790 114**	0.417	131	150	102	66	12	5
		125		125	16	**721 790 115**	0.533	148	170	117	74	13	5
	5	140	5	125	16	**721 790 116**	0.725	165	188	132	81	14	5
		160	6	150	16	**721 790 117**	1.093	188	213	152	91	16	5
*		200		200	10	**721 790 119**	1.460	224	250	192	112	24	6
		225		200	10	**721 790 120**	1.743	248	274	217	125	25	6
*		250		250	10	**721 790 121**	2.203	274	303	240	140	23	9
		280		250	10	**721 790 122**	2.930	308	329	270	151	23	5
*		315		300	6	**721 790 123**	4.455	346	379	302	172	27	8
		355		350	6	**721 790 124**	5.963	384	430	341	194	32	10
		400		400	6	**721 790 125**	9.041	438	482	384	216	34	10





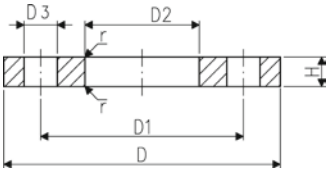
Flange adaptor PVC-U
Jointing face with O-ring groove metric

Model:

- Solvent cement socket metric
- Counterpart: flange adaptor flat code no. 721 800 105-721 790 111-125, combined flange adaptor (d160, d200, d225, d280, d315)
- Gasket: O-ring EPDM code no. 748 410 000-176, FKM code no. 749 410 000-176
- Flange: PVC-U code no. 721 700 005-138, PP/steel code no. 727 700 206-223, PP-V for socket systems metric code no. 727 700 406-423

d (inch)	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
	16	10	16	**721 810 105**	0.008	22	29	13	20	9	6
	20	15	16	**721 810 106**	0.011	27	34	16	22	9	6
	25	20	16	**721 810 107**	0.018	33	41	21	25	10	6
	32	25	16	**721 810 108**	0.027	41	50	28	28	10	6
	40	32	16	**721 810 109**	0.046	50	61	36	34	13	8
	50	40	16	**721 810 110**	0.068	61	73	45	39	13	8
	63	50	16	**721 810 111**	0.120	77	90	57	46	14	8
2 ½	75	65	16	**721 810 112**	0.183	91	106	69	52	15	8
	90	80	16	**721 810 113**	0.286	108	125	82	61	16	10
	110	100	16	**721 810 114**	0.478	131	150	102	72	18	11
	125	125	16	**721 810 115**	0.607	148	170	117	80	19	11
5	140	125	16	**721 810 116**	0.804	165	188	132	87	20	11
	160	150	16	**721 810 117**	1.226	188	213	152	97	22	11
	200	200	10	**721 810 119**	1.593	224	250	192	118	30	12
	225	200	10	**721 810 120**	1.878	248	274	217	131	31	12
	250	250	10	**721 810 121**	2.175	274	303	240	140	23	9
	280	250	10	**721 810 122**	3.170	308	329	270	158	30	13
	315	300	6	**721 810 123**	4.891	346	379	302	180	35	17





Flanges PVC-U

Model:

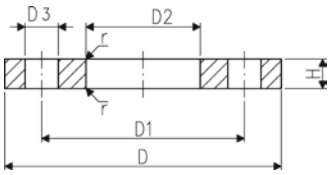
- For socket systems metric and BS
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Maximum medium- or ambient temperature 45 °C

AL: number of holes

[1]) Not for BS

	d (mm)	DN (mm)	Size (inch)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	16	10	⅜	10	Metric	PN10	Socket	**721 700 005**	0.053
	20	15	½	10	Metric	PN10	Butt/Socket	**721 700 006**	0.067
	25	20	¾	10	Metric	PN10	Butt/Socket	**721 700 007**	0.092
	32	25	1	10	Metric	PN10	Butt/Socket	**721 700 008**	0.133
	40	32	1 ¼	10	Metric	PN10	Butt/Socket	**721 700 009**	0.198
	50	40	1 ½	10	Metric	PN10	Butt/Socket	**721 700 010**	0.247
	63	50	2	10	Metric	PN10	Butt/Socket	**721 700 011**	0.312
	75	65	2 ½	10	Metric	PN10	Butt/Socket	**721 700 012**	0.376
	90	80	3	10	Metric	PN10	Socket	**721 700 013**	0.464
	110	100	4	10	ASME	class 150	Socket	**161 483 180**	0.538
1	110	100	4	10	Metric	PN10	Socket	**721 700 014**	0.543
	125	125	4 ½	10	Metric	PN10	Socket	**721 700 015**	0.904
	140	125	5	10	Metric	PN10	Socket	**721 700 016**	0.758
1	160	150	6	10	Metric	PN10	Socket	**721 700 017**	1.009
	200	200	7	10	Metric	PN10	Socket	**721 700 019**	1.669
	225	200	8	10	Metric	PN10	Socket	**721 700 020**	1.377
	250	250	9	6	Metric	PN10	Socket	**721 700 021**	2.376
	250	225	9	6	Metric	PN10	Socket	**721 700 136**	1.800
	280	250	10	6	Metric	PN10	Socket	**721 700 137**	1.746
	315	300	12	6	Metric	PN10	Socket	**721 700 138**	2.349

table continued on the next page

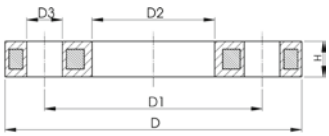


	d (mm)	DN (mm)	Size (inch)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	355	350	14	6	Metric	PN10	Socket	**721 700 139**	3.485
	400	400	16	6	Metric	PN10	Socket	**721 700 140**	4.526
	20	15	½	10	ASME	class 150	Socket	**721 702 206**	0.068
	25	20	¾	10	ASME	class 150	Socket	**721 702 207**	0.090
	32	25	1	10	ASME	class 150	Socket	**721 702 208**	0.128
	40	32	1 ¼	10	ASME	class 150	Socket	**721 702 209**	0.203
	50	40	1 ½	10	ASME	class 150	Socket	**721 702 210**	0.238
	63	50	2	10	ASME	class 150	Socket	**721 702 211**	0.302
	75	65	2 ½	10	ASME	class 150	Socket	**721 702 212**	0.369
	90	80	3	10	ASME	class 150	Socket	**721 702 213**	0.509
	110	100	4	10	ASME	class 150	Socket	**721 702 214**	0.516
	140	125	5	10	ASME	class 150	Socket	**721 702 216**	0.737
	160	150	6	10	ASME	class 150	Socket	**721 702 217**	1.910
	225	200	8	10	ASME	class 150	Socket	**721 702 220**	1.360

	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	r (mm)	AL	SC
	90	60	23	14	10	1	4	M12
	95	65	28	14	11	1	4	M12
	105	75	34	14	12	2	4	M12
	115	85	42	14	14	2	4	M12
	140	100	51	18	15	2	4	M16
	150	110	62	18	16	2	4	M16
	165	125	78	18	18	3	4	M16
	185	145	92	18	19	3	4	M16
	200	160	110	18	20	3	8	M16
	220	190	133	19	22	3	8	
1	220	180	133	18	22	3	8	M16
	250	210	150	18	26	5	8	M16
	250	210	167	18	26	4	8	M16
1	285	240	190	22	28	4	8	M20
	340	295	226	22	32	4	8	M20
	340	295	250	22	32	4	8	M20
	395	350	277	22	36	4	12	M20
	370	325	277	22	36	4	8	M20
	395	350	310	22	36	4	12	M20
	445	400	348	22	36	4	12	M20
	505	460	388	22	38	5	16	M20
	565	515	442	26	42	5	16	M24
	95	60	28	16	11	1	4	
	105	70	34	16	12	2	4	
	115	79	42	16	14	2	4	
	140	89	51	16	15	2	4	
	150	98	62	16	16	2	4	
	165	121	78	19	18	3	4	
	185	140	92	19	19	3	4	
	200	152	110	19	20	3	4	
	220	190	138	19	22	3	8	
	250	216	167	22	26	4	8	
	285	241	200	22	28	4	8	
	340	298	250	22	32	4	8	







Flanges PP-Steel

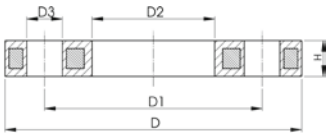
Model:

- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes
* FM 1613 approved - 15 bar
** Profiled loose flange

	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20	15	95	16	ASME	class 150	Butt/Socket	**727 701 206**	0.213
	20	15	95	16	Metric	PN10	Butt/Socket	**727 700 206**	0.216
	25	20	105	16	Metric	PN10	Butt/Socket	**727 700 207**	0.279
	25	20	105	16	ASME	class 150	Butt/Socket	**727 701 207**	0.260
	32	25	115	16	Metric	PN10	Butt/Socket	**727 700 208**	0.429
	32	25	115	16	ASME	class 150	Butt/Socket	**727 701 208**	0.416
	40	32	140	16	Metric	PN10	Butt/Socket	**727 700 209**	0.621
	40	32	140	16	ASME	class 150	Butt/Socket	**727 701 209**	0.730
	50	40	150	16	Metric	PN10	Butt/Socket	**727 700 210**	0.722
	50	40	150	16	ASME	class 150	Butt/Socket	**727 701 210**	0.809
	63	50	165	16	Metric	PN10	Butt/Socket	**727 700 211**	0.900
	63	50	165	16	ASME	class 150	Butt/Socket	**727 701 211**	0.866
	75	65	185	16	Metric	PN10	Butt/Socket	**727 700 212**	1.110
	75	65	185	16	ASME	class 150	Butt/Socket	**727 701 212**	1.117
*	90	80	200	16	Metric	PN10	Butt	**724 700 313**	1.390
	90	80	200	16	Metric	PN10	Socket	**727 700 213**	1.369
	90	80	200	16	Metric	PN10	Butt	**727 700 313**	1.390
	90	80	200	16	ASME	class 150	Socket	**727 701 213**	1.492
	90	80	200	16	ASME	class 150	Butt	**727 701 313**	1.499
*	110	100	223	16	Metric	PN10	Butt	**724 700 314**	1.407
	110	100	220	16	Metric	PN10	Socket	**727 700 214**	1.522
	110	100	220	16	Metric	PN10	Butt	**727 700 314**	1.407
	110	100	229	16	ASME	class 150	Socket	**727 701 214**	1.695
	110	100	229	16	ASME	class 150	Butt	**727 701 314**	1.739
*	125	100	223	16	Metric	PN10	Butt	**724 700 315**	1.408
	125	100	220	16	Metric	PN10	Butt	**727 700 315**	1.408
	125	125	250	16	Metric	PN10	Socket	**727 700 815**	2.475
*	140	125	250	16	Metric	PN10	Butt	**724 700 316**	2.318
	140	125	250	16	Metric	PN10	Butt	**727 700 716**	2.318
	140	125	250	16	Metric	PN10	Socket	**727 700 816**	2.033
*	160	150	285	16	Metric	PN10	Butt	**724 700 317**	3.491
	160	150	285	16	Metric/ASME	PN10/ class 150	Butt	**727 700 717**	3.491
	160	150	285	16	Metric/ASME	PN10/ class 150	Socket	**727 700 817**	3.167
*	180	150	285	16	Metric	PN10	Butt	**724 700 318**	3.108
	180	150	285	16	Metric/ASME	PN10/ Class 150	Butt	**727 700 718**	3.108
*, **	200	200	344	16	Metric	PN16	Butt	**724 700 319**	3.549
	200	200	340	16	Metric/ASME	PN10/ class 150	Butt	**727 700 719**	5.600
	200	200	340	16	Metric/ASME	PN10/ class 150	Socket	**727 700 819**	6.143
*, **	225	200	344	16	Metric	PN16	Butt	**724 700 320**	3.380
	225	200	340	16	Metric/ASME	PN10/ class 150	Butt	**727 700 720**	5.533
	225	200	340	16	Metric/ASME	PN10/ class 150	Socket	**727 700 820**	4.448
*, **	250	250	410	16	Metric	PN16	Butt	**724 700 321**	6.390
	250	225	395	16	Metric	PN10	Socket	**727 700 031**	8.340
	250	250	406	10	ASME	class 150	Butt	**727 701 321**	6.000
	250	250	395	16	Metric	PN10	Butt	**727 700 721**	6.632
	250	250	395	16	Metric	PN10	Socket	**727 700 821**	7.179
*, **	280	250	410	16	Metric	PN16	Butt	**724 700 322**	6.310
	280	250	395	16	Metric	PN10	Butt	**727 700 722**	6.573

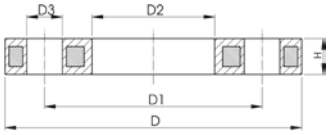
table continued on the next page



	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	280	250	395	16	Metric	PN10	Socket	**727 700 822**	5.547
*, **	315	300	455	16	Metric	PN16	Butt	**724 700 323**	9.740
	315	300	445	16	Metric	PN10	Butt	**727 700 723**	7.903
	315	300	445	16	Metric	PN10	Socket	**727 700 823**	6.980
	315	300	483	10	ASME	class 150	Butt	**727 701 322**	11.800
*, **	355	350	521	16	Metric	PN16	Butt	**724 700 324**	15.203
	355	350	515	16	Metric	PN10	Butt	**727 700 724**	14.587
	355	350	515	16	Metric	PN10	Socket	**727 700 824**	12.465
	355	350	540	10	ASME	class 150	Butt	**727 701 323**	17.900
*, **	400	400	582	16	Metric	PN16	Butt	**724 700 325**	20.600
	400	400	574	16	Metric	PN10	Butt	**727 700 725**	20.034
	400	400	574	16	Metric	PN10	Socket	**727 700 825**	17.607
	400	400	597	10	ASME	class 150	Butt	**727 701 324**	24.500
*, **	450	500	685	10	Metric	PN10	Butt	**724 700 426**	25.600
*, **	500	500	685	10	Metric	PN10	Butt	**724 700 427**	21.061
**	560	600	796	10	Metric	PN10	Butt	**724 700 428**	35.000
**	630	600	800	10	Metric	PN10	Butt	**724 700 429**	28.500
**	710	700	912	6	Metric	PN10	Butt	**724 700 430**	25.500
**	800	800	1026	6	Metric	PN10	Butt	**724 700 431**	39.300
**	900	900	1129	6	Metric	PN10	Butt	**724 700 432**	48.500
	450	500	712	10	ASME	class 150	Butt	**727 701 325**	33.600

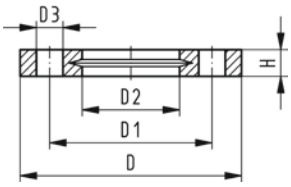
	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	20	60	28	16	12	4	M12
	20	65	28	14	12	4	M12
	25	75	34	14	12	4	M12
	25	70	34	16	12	4	M12
	32	85	42	14	16	4	M12
	32	79	42	16	16	4	M12
	40	100	51	18	16	4	M16
	40	89	51	16	16	4	M16
	50	110	62	18	20	4	M16
	50	98	62	16	18	4	M16
	63	125	78	18	20	4	M16
	63	121	78	19	18	4	M16
	75	145	92	18	20	4	M16
	75	140	92	19	18	4	M16
*	90	160	108	18	20	8	M16
	90	160	110	18	20	8	M16
	90	160	108	18	20	8	M16
	90	152	110	19	20	4	M16
	90	152	108	19	20	4	M16
*	110	180	128	18	20	8	M16
	110	180	133	18	20	8	M16
	110	180	128	18	20	8	M16
	110	190	133	19	20	8	M16
	110	190	128	19	20	8	M16
*	125	180	135	18	20	8	M16
	125	180	135	18	20	8	M16
	125	210	150	18	26	8	M16
*	140	210	158	18	24	8	M16
	140	210	158	18	24	8	M16
	140	210	167	18	26	8	M16
*	160	240	178	22	28	8	M20
	160	240	178	22	24	8	M20
	160	240	190	22	26	8	M20
*	180	240	188	22	28	8	M20
	180	240	188	22	24	8	M20
*, **	200	295	235	22	31	12	M20
	200	295	235	22	27	8	M20
	200	295	226	22	29	8	M20
*, **	225	295	238	22	31	12	M20

table continued on the next page



	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	225	297	238	22	27	8	M20
	225	297	250	22	29	8	M20
*, **	250	355	288	26	35	12	M24
	250	325	277	22	32	8	M20
	250	362	293	25	30	12	M24
	250	350	288	22	30	12	M20
	250	350	277	22	32	12	M20
*, **	280	355	294	26	36	12	M24
	280	350	294	22	30	12	M20
	280	350	310	22	32	12	M20
*, **	315	410	338	26	43	12	M24
	315	400	338	22	34	12	M20
	315	400	348	22	36	12	M20
	315	432	338	25	34	12	M24
*, **	355	470	376	26	55	16	M24
	355	460	376	23	40	16	M20
	355	460	388	23	42	16	M20
	355	476	376	29	42	12	M27
*, **	400	525	430	30	56	16	M27
	400	515	430	26	40	16	M24
	400	515	442	26	42	16	M24
	400	539	429	29	44	16	M27
*, **	450	620	517	26	56	20	M24
*, **	500	620	533	26	56	20	M24
**	560	725	618	30	68	20	M27
**	630	725	645	30	68	20	M27
**	710	840	740	30	49	24	M27
**	800	950	843	33	58	24	M30
**	900	1050	947	33	62	28	M30
	450	635	540	32	53	20	M30





Flanges PP-V (full plastic)

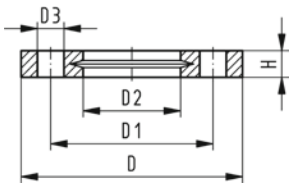
Model:

- Full-plastic flange PP-GF (30 % glass-fibre reinforced)
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D2024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

d (mm)	DN (mm)	d (inch)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
20	15		16	Metric	PN10	Butt/Socket	**727 700 406**	0.093
20	15	½	16	ASME	class 150	Butt/Socket	**727 701 406**	0.091
25	20		16	Metric	PN10	Butt/Socket	**727 700 407**	0.120
25	20	¾	16	ASME	class 150	Butt/Socket	**727 701 407**	0.120
32	25		16	Metric	PN10	Butt/Socket	**727 700 408**	0.151
32	25	1	16	ASME	class 150	Butt/Socket	**727 701 408**	0.147
40	32		16	Metric	PN10	Butt/Socket	**727 700 409**	0.244
40	32	1 ¼	16	ASME	class 150	Butt/Socket	**727 701 409**	0.246
50	40		16	Metric	PN10	Butt/Socket	**727 700 410**	0.297
50	40	1 ½	16	ASME	class 150	Butt/Socket	**727 701 410**	0.299
63	50		16	Metric	PN10	Butt/Socket	**727 700 411**	0.362
63	50	2	16	ASME	class 150	Butt/Socket	**727 701 411**	0.361
75	65		16	Metric	PN10	Butt/Socket	**727 700 412**	0.487
75	65	2 ½	16	ASME	class 150	Butt/Socket	**727 701 412**	0.492
90	80		16	Metric	PN10	Socket	**727 700 413**	0.550
90	80		16	Metric	PN10	Butt	**727 700 513**	0.544
90	80	3	16	ASME	class 150	Socket	**727 701 413**	0.605
90	80	3	16	ASME	class 150	Butt	**727 701 513**	0.607
110	100		16	Metric	PN10	Socket	**727 700 414**	0.640

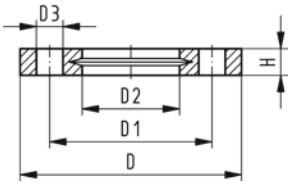
table continued on the next page



d (mm)	DN (mm)	d (inch)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
110	100		16	Metric	PN10	Butt	**727 700 514**	0.643
110	100	4	16	ASME	class 150	Socket	**727 701 414**	0.704
110	100	4	16	ASME	class 150	Butt	**727 701 514**	0.736
125	100		16	Metric	PN10	Butt	**727 700 515**	0.635
140	125		16	Metric	PN10	Socket	**727 700 416**	0.781
140	125		16	Metric	PN10	Butt	**727 700 516**	0.842
160	150		16	Metric/ASME	PN10/ class 150	Socket	**727 700 417**	1.050
160	150	6	16	Metric/ASME	PN10/ class 150	Butt	**727 700 517**	1.200
180	150		16	Metric/ASME	PN10/ Class 150	Butt	**727 700 518**	1.200
200	200		16	Metric/ASME	PN10/ class 150	Socket	**727 700 419**	1.629
200	200	8	16	Metric/ASME	PN10/ class 150	Butt	**727 700 519**	1.400
225	200		16	Metric/ASME	PN10/ class 150	Socket	**727 700 420**	1.400
225	200	8	16	Metric/ASME	PN10/ class 150	Butt	**727 700 520**	1.400
250	250		10	Metric	PN10	Socket	**727 700 421**	2.229
250	250		10	Metric	PN10	Butt	**727 700 521**	2.052
250	250	10	10	ASME	class 150	Butt	**727 701 521**	2.241
280	250		10	Metric	PN10	Socket	**727 700 422**	1.651
280	250		10	Metric	PN10	Butt	**727 700 522**	1.700
280	250	10	10	ASME	class 150	Socket	**727 701 422**	1.838
280	250	10	10	ASME	class 150	Butt	**727 701 522**	2.173
315	300		10	Metric	PN10	Socket	**727 700 423**	2.461
315	300		10	Metric	PN10	Butt	**727 700 523**	2.400
315	300	12	10	ASME	class 150	Socket	**727 701 423**	3.482
315	300	12	10	ASME	class 150	Butt	**727 701 523**	3.627
355	350		10	Metric	PN10	Socket	**727 700 424**	3.000
355	350		10	Metric	PN10	Butt	**727 700 524**	4.440
400	400		10	Metric	PN10	Socket	**727 700 425**	5.135
400	400		10	Metric	PN10	Butt	**727 700 525**	5.624

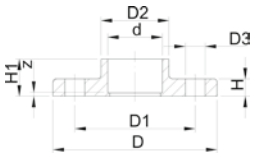
d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
20	95	65	28	14	16	4	M12
20	95	60	28	16	16	4	M12
25	105	75	34	14	17	4	M12
25	105	70	34	16	17	4	M12
32	115	85	42	14	18	4	M12
32	115	79	42	16	18	4	M12
40	140	100	51	18	20	4	M16
40	140	89	51	16	20	4	M16
50	150	110	62	18	22	4	M16
50	150	98	62	16	22	4	M16
63	165	125	78	18	24	4	M16
63	165	121	78	19	24	4	M16
75	185	145	92	18	26	4	M16
75	185	140	92	19	26	4	M16
90	200	160	110	18	27	8	M16
90	200	160	108	18	27	8	M16
90	200	152	110	19	27	4	M16
90	200	152	108	19	27	4	M16
110	220	180	133	18	28	8	M16
110	220	180	128	18	28	8	M16
110	229	190	133	19	28	8	M16
110	229	190	128	19	28	8	M16
125	220	180	135	18	28	8	M16
140	250	210	167	18	30	8	M16
140	250	210	158	18	30	8	M16
160	285	240	190	22	32	8	M20
160	285	240	178	22	32	8	M20

table continued on the next page



d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
180	285	240	188	22	32	8	M20
200	340	297	226	22	34	8	M20
200	340	297	235	22	34	8	M20
225	340	295	250	22	34	8	M20
225	340	297	238	22	34	8	M20
250	395	350	277	22	38	12	M20
250	395	350	288	22	38	12	M20
250	406	362	288	26	38	12	M20
280	395	350	310	22	38	12	M20
280	395	350	294	22	38	12	M20
280	406	362	310	26	38	12	M20
280	406	362	294	26	38	12	M20
315	445	400	348	22	42	12	M20
315	445	400	338	22	42	12	M20
315	483	432	348	26	42	12	M20
315	483	432	338	26	42	12	M20
355	515	460	388	22	46	16	M20
355	515	460	376	22	46	16	M20
400	574	515	442	26	50	16	M24
400	574	515	430	26	50	16	M24





Fixed flange PVC-U
Jointing face flat metric

Model:

- **Bolt circle PN 10**
- Solvent cement socket metric
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

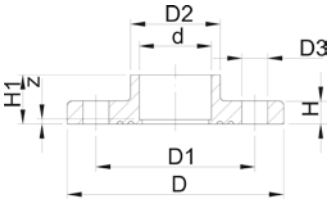
* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150

	d (mm)	DN (mm)	Size (inch)	PN (bar)	Code	Weight (kg)
	20	15	½	16	**721 730 206**	0.098
	25	20	¾	16	**721 730 207**	0.130
	32	25	1	16	**721 730 208**	0.183
	40	32	1 ¼	16	**721 730 209**	0.305
	50	40	1 ½	16	**721 730 210**	0.365
	63	50	2	16	**721 730 211**	0.510
*	75	65	2 ½	10	**721 730 212**	0.520
*	90	80	3	10	**721 730 213**	0.720
*	110	100	4	10	**721 730 214**	0.920
*	140	125	5	10	**721 730 216**	1.380
*	160	150	6	10	**721 730 217**	2.039

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	z (mm)	H (mm)	H1 (mm)	AL	SC
	20	95	65	27	14	3	12	19	4	M12
	25	105	75	33	14	3	13	22	4	M12
	32	115	85	41	14	3	14	25	4	M12
	40	140	100	51	18	3	17	29	4	M16
	50	150	110	62	18	3	17	34	4	M16
	63	165	125	77	18	3	20	41	4	M16
*	75	185	142	91	22	3	21	47	4	M20
*	90	200	156	108	22	5	22	56	8	M20
*	110	220	186	131	24	5	24	66	8	M20
*	140	250	215	165	23	5	28	91	8	M20
*	160	285	240	188	23	5	30	91	8	M20







Fixed flange PVC-U metric
Combined jointing face: flat and serrated metric

Model:

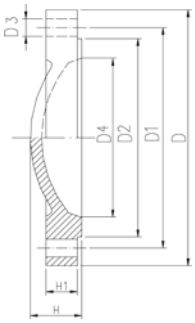
- Solvent cement socket metric
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10
- **Bolt circle PN 10**

* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150
d75 - d110: bolt hole as long hole version
AL: number of holes

	d (mm)	DN (mm)	PN (bar)	d (inch)	Type	Code	Weight (kg)
	20	15	16		A	**721 740 106**	0.100
	25	20	16		A	**721 740 107**	0.130
	32	25	16		A	**721 740 108**	0.185
	40	32	16		A	**721 740 109**	0.306
	50	40	16		A	**721 740 110**	0.368
	63	50	16		A	**721 740 111**	0.513
*	75	65	10	2 ½	B	**721 740 112**	0.536
*	90	80	10	3	B	**721 740 113**	0.710
*	110	100	10	4	B	**721 740 114**	0.941
*	140	125	10	5	B	**721 740 116**	1.395
*	160	150	10	6	B	**721 740 117**	2.029

	d (mm)	D (mm)	D1 (mm)	D1 max. (mm)	D1 min. (mm)	D2 (mm)	D3 (mm)	z (mm)	H (mm)	H1 (mm)	AL	SC
	20	95	65			27	14	3	12	19	4	M12
	25	105	75			33	14	3	13	22	4	M12
	32	115	85			41	14	3	14	25	4	M12
	40	140	100			51	18	3	17	29	4	M16
	50	150	110			62	18	3	17	34	4	M16
	63	165	125			77	18	3	20	41	4	M16
*	75	185		140	144	91	19	3	21	47	4	M16
*	90	200		153	159	108	19	5	22	56	8	M16
*	110	220		181	191	131	18	5	24	66	8	M16
*	140	250	215			165	23	5	28	91	8	M20
*	160	285	240			188	23	5	30	91	8	M20





Blanking flange PVC-U
Jointing face serrated metric

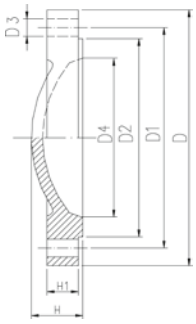
Model:

- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- **d63 to d160: combined jointing face (serrated and flat)**
- d250: connecting dimension: ISO 2536
- **Bolt circle PN 10**

* Combined Flange, connecting dimensions EN1092 PN 10 and ANSI B 16.5 Class 150
d20 - d110: bolt hole as long hole version
AL: number of holes

	d (mm)	DN (mm)	PN (bar)	Inch (inch)	Code	Weight (kg)
*	20	15	10	1/2	**721 700 506**	0.075
*	25	20	10	3/4	**721 700 507**	0.097
*	32	25	10	1	**721 700 508**	0.145
*	40	32	10	1 1/4	**721 700 509**	0.214
*	50	40	10	11/2	**721 700 510**	0.298
*	63	50	10	2	**721 700 511**	0.352
*	75	65	10	2 1/2	**721 700 512**	0.538
*	90	80	10	3	**721 700 513**	0.679
*	110	100	10	4	**721 700 514**	0.870
*	140	125	10	5	**721 700 516**	1.286

table continued on the next page

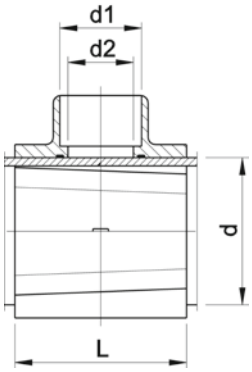


	d (mm)	DN (mm)	PN (bar)	Inch (inch)	Code	Weight (kg)
*	160	150	10	6	**721 700 517**	1.761
	225	200	10	8	**721 700 520**	2.731
	250	250	10	10	**721 700 521**	3.329
	280	250	10	10	**721 700 522**	3.769
	315	300	6	12	**721 700 523**	4.856
	355	350	6	14	**721 700 524**	6.972
	400	400	6	16	**721 700 525**	9.125

	d (mm)	D (mm)	D1 (mm)	D1 min. (mm)	D1 max. (mm)	D2 (mm)	D3 (mm)	D4 (mm)	H (mm)	H1 (mm)	AL
*	20	95		61	63	34	16	15	15	12	4
*	25	105		70	73	41	16	20	16	13	4
*	32	115		79	83	50	16	25	19	15	4
*	40	140		91	100	61	18	34	20	16	4
*	50	150		101	110	74	18	44	22	17	4
*	63	165		121	124	91	19	57	25	20	4
*	75	185		140	145	106	22	69	29	21	4
*	90	200		152	160	125	22	82	32	22	8
*	110	220		180	191	150	24	102	36	24	8
*	140	250	215			184	23	120	41	28	8
*	160	285	240			212	23	152	45	30	8
	225	340	295			261	22	213	63	36	8
	250	370	325			292	22	238	63	36	8
	280	395	350			320	22	266	65	36	12
	315	445	400			371	22	299	65	36	12
	355	505	460			430	22	341	67	38	16
	400	565	515			482	26	384	71	42	16

Branch and tapping saddles



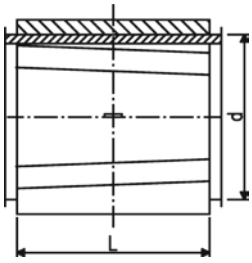


Rubber sealed branch saddle PVC-U
d63-225mm / Outlet with solvent cement socket

- 1 bar Gas / 10 bar Water
- NBR sealing
- Not according to German KTW-BWGL

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	d1 (mm)	d2 (mm)	L (mm)
63	50	10	**161 111 035**	0.697	40	22	105
63	50	10	**161 111 036**	0.733	50	22	105
75	65	10	**161 111 046**	0.778	50	31	105
90	80	10	**161 111 055**	0.829	40	31	105
90	80	10	**161 111 056**	0.867	50	31	105
110	100	10	**161 111 065**	0.935	40	31	105
110	100	10	**161 111 066**	0.970	50	40	105
110	100	10	**161 111 067**	1.003	63	40	105
160	150	10	**161 111 095**	1.252	40	31	120
160	150	10	**161 111 096**	1.281	50	40	120
160	150	10	**161 111 097**	1.488	63	40	120
225	200	10	**161 111 116**	1.587	50	40	120
225	200	10	**161 111 117**	1.756	63	40	120



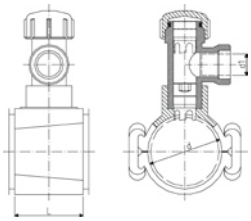


Solvent cement repair saddle PVC-U
d63-225mm / No outlet

- 1 bar Gas / 10 bar Water
- For repair of damaged pipes
- Cementing only possible on dry mains without pressure
- Not according to German KTW-BWGL

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	L (mm)
63	50	10	**161 110 230**	0.663	105
90	80	10	**161 110 250**	0.761	105
110	100	10	**161 110 260**	0.900	105
160	150	10	**161 110 290**	1.369	120
225	200	10	**161 110 310**	1.490	120





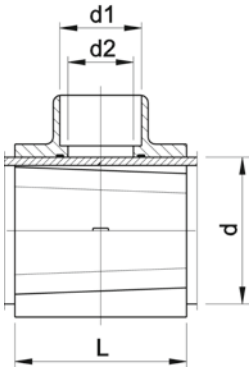
Rubber sealed tapping saddle PVC-U
d63-225mm / With integral cutter / Outlet with PVP thread

- 1 bar Gas / 10 bar Water
- No standard thread
- For PVC pipes for tapping under operating pressure
- Hexagon KEY for tapping: 799 150 008 (32 - 40 mm); 799 150 009 (50 - 63 mm)
- NBR sealing
- Not according to German KTW-BWGL

d (mm)	DN (mm)	PN (bar)	Thread Type	Code	Weight (kg)	d1 (mm)	Tapping-Ø (mm)	L (mm)
63	50	10	G	**161 114 409**	1.228	32	21	105
75	65	10	G	**161 114 415**	1.150	32	30	105
90	80	10	G	**161 114 422**	1.198	32	30	105
110	100	10	G	**161 114 430**	1.486	32	30	105
110	100	10	G	**161 114 433**	1.473	63	39	105
160	150	10	G	**161 114 454**	1.398	32	30	120
160	150	10	G	**161 114 457**	2.351	63	39	120
225	200	10	G	**161 114 470**	2.023	32	30	120
225	200	10	G	**161 114 473**	2.503	63	39	120

Saddles



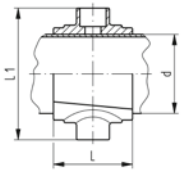


Rubber sealed branch saddle PVC-U
Inch version / Outlet with solvent cement socket

- 1 bar Gas / 10 bar Water
- BS Inch
- NBR sealing
- Not according to German KTW-BWGL

d (inch)	d1 (inch)	d2 (mm)	PN (bar)	SDR	Size (inch)	Thread Type	Code	Weight (kg)	L (mm)
3	2		10		3	G	**161 117 057**	0.767	106
4	2		10		4	G	**161 117 067**	0.930	106
6	2		10		6	G	**161 117 097**	1.364	120





Saddle double branch (rubber gasket joint to main)

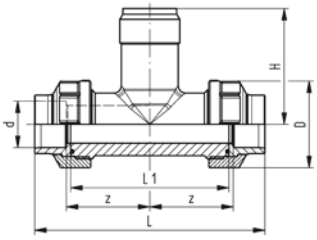
Model:

- Top saddle with NBR rubber gasket
- Outlet with solvent cement socket, BS Inch
- Allowance should be made for a possible weakening effect on the main of the two diametrically opposed tappings. Particular attention should therefore be given to the class of pipe used in relation to the expected maximum working pressures.

d-d (inch)	PN (bar)	Code	Weight (kg)	L (mm)	L1 (mm)
1 ¼ - 3	10	**161 137 055**	0.800	106	88
1 ½ - 3	10	**161 137 056**	0.840	106	88
1 ¼ - 4	10	**161 137 065**	0.910	106	101
1 ½ - 4	10	**161 137 066**	0.930	106	101
1 ¼ - 6	10	**161 137 095**	1.250	120	121

Installation fittings





Installation fitting type 310 PVC-U
For socket systems metric

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

Attention:

- sensor length depends on installation fitting

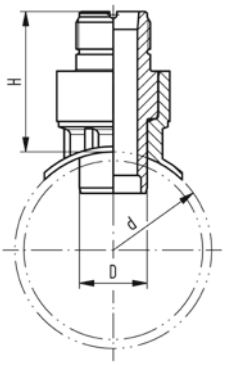
Model:

- Threaded outlet 1 ¼" NPSM
- Union end with solvent cement socket PVC-U

d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	16	PVMT005	**721 310 006**	0.181	**721 310 036**	0.181
25	20	16	PVMT007	**721 310 007**	0.226	**721 310 037**	0.226
32	25	16	PVMT010	**721 310 008**	0.303	**721 310 038**	0.304
40	32	16	PVMT012	**721 310 009**	0.419	**721 310 039**	0.479
50	40	16	PVMT015	**721 310 010**	0.568	**721 310 040**	0.571
63	50	16	PVMT020	**721 310 011**	0.879	**721 310 041**	0.881

d (mm)	DN (mm)	L (mm)	L1 (mm)	D (mm)	H (mm)	z (mm)	Sensor Type
20	15	128	90	43	76	48	flow X0, pH XX
25	20	144	100	51	78	53	flow X0, pH XX
32	25	160	110	58	81	58	flow X0, pH XX
40	32	168	110	72	85	58	flow X0, pH XX
50	40	188	120	83	89	63	flow X0, pH XX
63	50	212	130	100	95	68	flow X0, pH XX





Installation fitting type 312 PVC-U
Glue on saddle metric

Model:

- Top saddle for solvent cement bonding
- Saddle with threaded outlet 1 ¼" NPSM

Range of use:

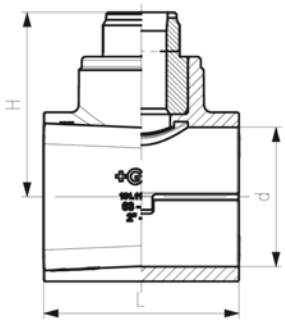
- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

Attention:

- sensor length depends on installation fitting

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	Sensor Type	H (mm)
75	65	10	**721 312 012**	0.220	38	flow X1	89
90	80	10	**721 312 013**	0.228	38	flow X1	89
110	100	10	**721 312 014**	0.225	38	flow X1	89
125	100	10	**721 312 015**	0.218	38	flow X1	81
140	125	10	**721 312 016**	0.213	38	flow X1	79
160	150	10	**721 312 017**	0.217	38	flow X1	76
200	200	10	**721 312 019**	0.192	38	flow X1	69
225	200	10	**721 312 020**	0.297	38	flow X2	141
250	250	10	**721 312 021**	0.295	38	flow X2	137
315	300	10	**721 312 023**	0.290	38	flow X2	127





Installation fitting type 312 PVC-U
metric clamp on saddle

Model:

- Saddle with threaded outlet 1 ¼" NPSM
- Top saddle for solvent cement bonding
- Seal: Lip seal EPDM

Range of use:

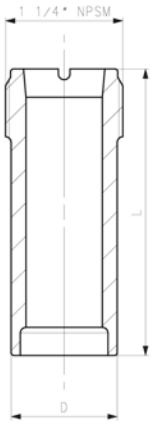
- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

Attention:

- sensor length depends on installation fitting

d (mm)	DN (mm)	PN	Code	Weight (kg)	Sensor Type	H (mm)	L (mm)
75	65	16	**198 150 538**	0.780	flow X0, pH XX	99	105
90	80	16	**198 150 539**	0.835	flow X0, pH XX	105	105
110	100	16	**198 150 540**	0.885	flow X0, pH XX	114	105
160	150	16	**198 150 543**	1.375	flow X1	157	120
225	200	16	**198 150 545**	1.700	flow X1	184	120





Installation fitting type 314 PVC-U
Weld on metric

Model:

- Threaded outlet 1 ¼" NPSM
- For conventional hot gas back welding according to DVS 2207 part 3

Attention:

- pH sensors can also be used for dimensions above d180/DN150 and below d75/DN65 with 721 314 000 The length might have to be adjusted (sensor has to touch the medium)
- only for pressureless or low pressure application
- pressure rate depends on quality of hot gas back welding
- please consult the instruction manual
- Installation by trained and certified welders only
- sensor length depends on installation fitting

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

d (mm)	DN	Code	Weight (kg)	Sensor Type	D (mm)	L (mm)
75 - 180	65 - 150	**721 314 000**	0.053	flow X0, pH XX	38	68
200 - 355	200 - 350	**721 314 001**	0.078	flow X1	38	102
400 - 630	350 - 600	**721 314 002**	0.153	flow X2	38	178

Ball valves type 546 Pro



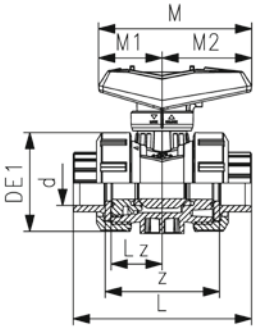
PVC-U Ball Valve type 546 Pro
With solvent cement sockets PVC-U ISO

Model:

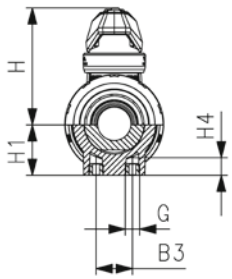
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	16	70	**161 546 061**	0.153	**161 546 071**	0.156
20	15	½	16	185	**161 546 062**	0.156	**161 546 072**	0.158
25	20	¾	16	350	**161 546 063**	0.240	**161 546 073**	0.242
32	25	1	16	700	**161 546 064**	0.343	**161 546 074**	0.345
40	32	1 ¼	16	1000	**161 546 065**	0.610	**161 546 075**	0.615
50	40	1 ½	16	1600	**161 546 066**	0.838	**161 546 076**	0.844
63	50	2	16	3100	**161 546 067**	1.537	**161 546 077**	1.552
75	65	2 ½	16	5000	**161 546 068**	4.343	**161 546 078**	3.563
90	80	3	16	7000	**161 546 069**	6.184	**161 546 079**	5.376
110	100	4	16	11000	**161 546 070**	8.642	**161 546 080**	11.600



d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	92	28	82	35	47	64
20	25	50	M6	60.5	27	12	95	28	82	35	47	64
25	25	58	M6	74.0	30	12	110	33	106	44	62	72
32	25	68	M6	80.0	36	12	123	36	106	44	62	79
40	45	84	M8	95.0	44	15	146	43	131	57	74	94
50	45	97	M8	101.5	51	15	157	45	131	57	74	95
63	45	124	M8	116.5	64	15	183	51	152	66	86	107
75	70	166	M8	169.0	85	15	233	68	270	64	205	144
90	70	200	M8	180.0	105	15	254	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	205	174



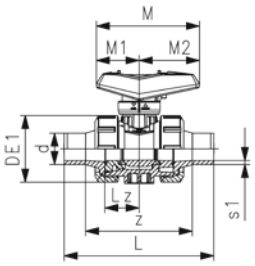
PVC-U Ball Valve type 546 Pro
With solvent cement spigots PVC-U ISO

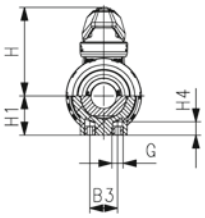
Model:

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible





d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	16	71	**161 546 721**	0.157	**161 546 731**	0.157
20	15	½	16	185	**161 546 722**	0.157	**161 546 732**	0.157
25	20	¾	16	350	**161 546 723**	0.242	**161 546 733**	0.242
32	25	1	16	700	**161 546 724**	0.359	**161 546 734**	0.347
40	32	1 ¼	16	1000	**161 546 725**	0.620	**161 546 735**	0.620
50	40	1 ½	16	1600	**161 546 726**	0.869	**161 546 736**	0.845
63	50	2	16	3100	**161 546 727**	1.550	**161 546 737**	1.550
75	65	2 ½	16	5000	**161 546 728**	3.689	**161 546 738**	5.100
90	80	3	16	7000	**161 546 729**	5.512	**161 546 739**	7.500
110	100	4	16	11000	**161 546 730**	11.900	**161 546 740**	11.900

d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)	z (mm)
16	25	50	M6	60.5	27	12	114	28	82	35	47	3.0	88
20	25	50	M6	60.5	27	12	124	28	82	35	47	3.0	96
25	25	58	M6	74.0	30	12	144	33	106	44	62	3.0	112
32	25	68	M6	80.0	36	12	154	36	106	44	62	4.0	118
40	45	84	M8	95.0	44	15	174	43	131	57	74	4.5	134
50	45	97	M8	101.5	51	15	194	45	131	57	74	5.5	148
63	45	124	M8	116.5	64	15	224	51	152	66	86	7.0	170
75	70	166	M8	169.0	85	15	284	68	270	64	205	8.5	194
90	70	200	M8	180.0	105	15	300	71	270	64	205	10.0	196
110	120	238	M12	194.0	123	22	340	82	326	71	205	12.0	212



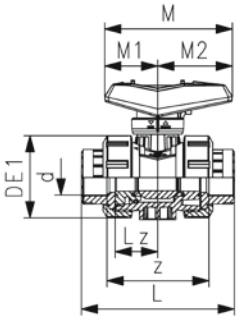
PVC-U Ball Valve type 546 Pro
With threaded sockets PVC-U ISO Rp

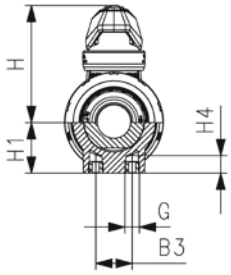
Model:

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible





d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**161 546 741**	0.152	**161 546 751**	0.152
20	15	½	10	185	**161 546 742**	0.159	**161 546 752**	0.152
25	20	¾	10	350	**161 546 743**	0.242	**161 546 753**	0.232
32	25	1	10	700	**161 546 744**	0.352	**161 546 754**	0.332
40	32	1 ¼	10	1000	**161 546 745**	0.605	**161 546 755**	0.605
50	40	1 ½	10	1600	**161 546 746**	0.805	**161 546 756**	0.805
63	50	2	10	3100	**161 546 747**	1.580	**161 546 757**	1.465
75	65	2 ½	10	5000	**161 546 748**	5.000	**161 546 758**	5.000
90	80	3	10	7000	**161 546 749**	6.300	**161 546 759**	7.500
110	100	4	10	11000	**161 546 750**	11.700	**161 546 760**	11.700

d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	95	28	82	35	47	69
20	25	50	M6	60.5	27	12	100	28	82	35	47	67
25	25	58	M6	74.0	30	12	114	33	106	44	62	78
32	25	68	M6	80.0	36	12	127	36	106	44	62	85
40	45	84	M8	95.0	44	15	146	43	131	57	74	100
50	45	97	M8	101.5	51	15	152	45	131	57	74	106
63	45	124	M8	116.5	64	15	177	51	152	66	86	121
75	70	166	M8	169.0	85	15	233	68	270	64	205	144
90	70	200	M8	180.0	105	15	254	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	255	174



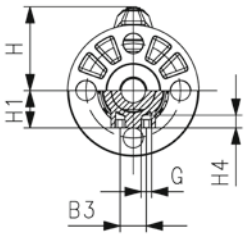
PVC-U Ball Valve type 546 Pro
With backing flanges PVC-U ISO

Model:

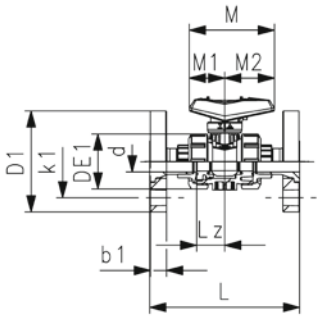
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 ½	10	5000	**161 546 108**	4.764	**161 546 118**	7.200
90	80	3	10	7000	**161 546 109**	6.983	**161 546 119**	7.008
110	100	4	10	11000	**161 546 110**	11.879	**161 546 120**	16.500



d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
75	18	70	166	166	M8	169	85	15	145	290	68	270	64	205
90	20	70	200	200	M8	180	105	15	160	310	71	270	64	205
110	20	120	238	238	M12	194	123	22	180	350	82	326	71	205



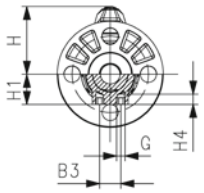
PVC-U Ball Valve type 546 Pro
With backing flanges PP-St ISO with PVC-U

Model:

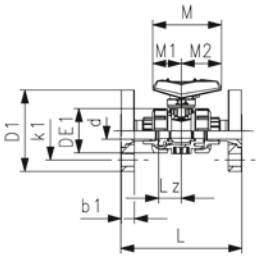
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 ½	16	5000	**161 546 948**	9.100	**161 546 958**	9.100
90	80	3	16	7000	**161 546 949**	12.400	**161 546 959**	12.400
110	100	4	16	11000	**161 546 950**	13.825	**161 546 960**	18.500



d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
75	18	70	166	166	M8	169	85	15	145	290	68	270	64	205
90	20	70	200	200	M8	180	105	15	160	310	71	270	64	205
110	20	120	238	238	M12	194	123	22	180	350	82	326	71	255



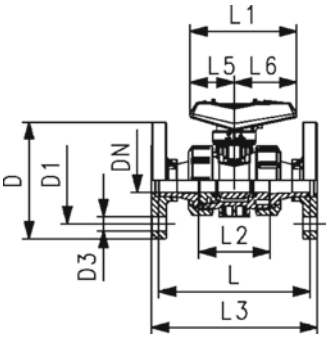
Ball valve type 546 Pro PVC-U
With fixed flanges PVC-U serrated metric

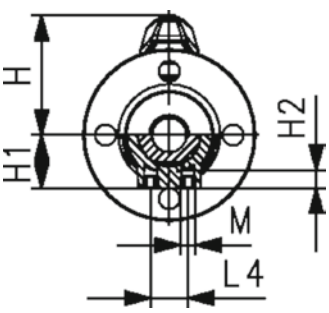
Model:

- Lockable as a standard (DN10-50)
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1st Generation)
- For easy installation and removal
- Ball seat PTFE
- Overall length according to EN 558 (basic series: row 1)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

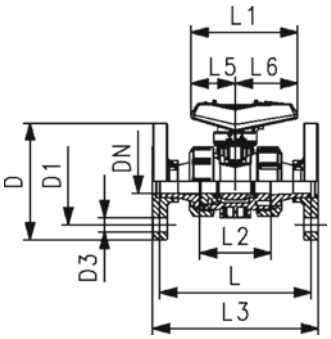
- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Multifunctional module with integrated limit switches (DN65-100)

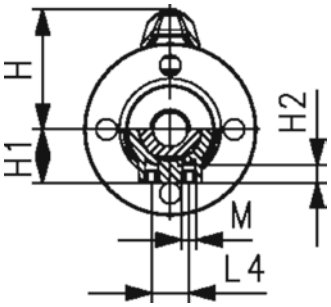




d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	16	185	**800 000 182**	0.370	**800 042 709**	0.420
25	20	16	350	**800 026 579**	0.520	**800 000 193**	0.510
32	25	16	700	**800 011 080**	0.730	**800 011 076**	0.731
40	32	16	1000	**800 011 174**	1.245	**800 000 195**	1.230
50	40	16	1600	**800 011 171**	1.617	**800 042 713**	1.640
63	50	16	3100	**800 011 039**	2.656	**800 011 040**	2.710

table continued on the next page





d (mm)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L3 (mm)	L1 (mm)	L2 (mm)	L (mm)	L4 (mm)	L5 (mm)	L6 (mm)	closest inch (inch)
20	95	65	14	57	27	130	77	56	124	25	32	45	½
25	105	75	14	67	30	150	97	65	144	25	39	58	¾
32	115	85	14	73	36	160	97	71	154	25	39	58	1
40	140	100	18	90	44	180	128	85	174	45	54	74	1 ¼
50	150	110	18	97	51	200	128	89	194	45	54	74	1 ½
63	165	125	18	116	64	230	152	101	224	45	66	87	2



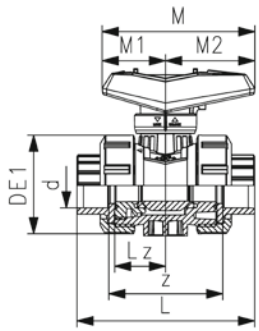
PVC-U Vented Ball Valve type 546 Pro V
With solvent cement sockets PVC-U ISO

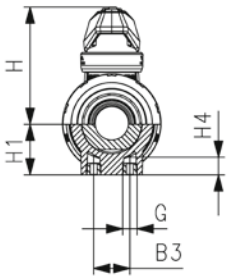
Model:

- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)
- 3 mm drilled hole inside the ball
- Benefits: Safely releases trapped gas or liquid; Reduces risk of rupture, leakage, and explosion; Protects valve seals and components from pressure-related wear
- Range of use: The vented ball valve is designed for applications such as: chlorinated water, water where bleach (**sodium hypochlorite solutions**) is present, and other applications where liquids requiring out-gassing exist.
- General functions: The special vent on side of the ball allows for pressure to be released back into the closed system. (Upstream) This helps prevent potentially dangerous pressure from building up inside the valve.

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible





d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
16	10	⅜	16	70	**161546061V**	1	0.153	**161546071V**	1	0.156
20	15	½	16	185	**161546062V**	1	0.156	**161546072V**	1	0.158
25	20	¾	16	350	**161546063V**	1	0.240	**161546073V**	1	0.242
32	25	1	16	700	**161546064V**	1	0.343	**161546074V**	1	0.345
40	32	1 ¼	16	1000	**161546065V**	1	0.610	**161546075V**	1	0.615
50	40	1 ½	16	1600	**161546066V**	1	0.838	**161546076V**	1	0.844
63	50	2	16	3100	**161546067V**	1	1.537	**161546077V**	1	1.552
75	65	2 ½	16	5000	**161546068V**	1	4.343	**161546078V**	1	3.563
90	80	3	16	7000	**161546069V**	1	6.184	**161546079V**	1	5.376
110	100	4	16	11000	**161546070V**	1	8.642	**161546080V**	1	11.600

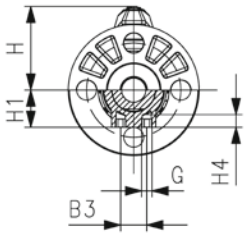
d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	25	50	M6	60.5	27	12	92	28	82	35	47	64
20	25	50	M6	60.5	27	12	95	28	82	35	47	64
25	25	58	M6	74.0	30	12	110	33	106	44	62	72
32	25	68	M6	80.0	36	12	123	36	106	44	62	79
40	45	84	M8	95.0	44	15	146	43	131	57	74	94
50	45	97	M8	101.5	51	15	157	45	131	57	74	95
63	45	124	M8	116.5	64	15	183	51	152	66	86	107
75	70	166	M8	169.0	85	15	233	68	270	64	205	144
90	70	200	M8	180.0	105	15	254	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	255	174



PVC-U Vented Ball Valve type 546 Pro V
With backing flanges PVC-U ISO

Model:

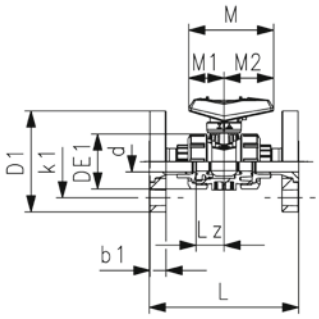
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)
- 3 mm drilled hole inside the ball
- Benefits: Safely releases trapped gas or liquid; Reduces risk of rupture, leakage, and explosion; Protects valve seals and components from pressure-related wear
- Range of use: The vented ball valve is designed for applications such as: chlorinated water, water where bleach (**sodium hypochlorite solutions**) is present, and other applications where liquids requiring out-gassing exist.
- General functions: The special vent on side of the ball allows for pressure to be released back into the closed system. (Upstream) This helps prevent potentially dangerous pressure from building up inside the valve.



Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
75	65	2 ½	10	5000	**161546108V**	1	4.764	**161546118V**	1	7.200
90	80	3	10	7000	**161546109V**	1	6.983	**161546119V**	1	7.008
110	100	4	10	11000	**161546110V**	1	11.879	**161546120V**	1	16.500



d (mm)	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)
75	18	70	166	166	M8	169	85	15	145	290	68	270	64	205
90	20	70	200	200	M8	180	105	15	160	310	71	270	64	205
110	20	120	238	238	M12	194	123	22	180	350	82	326	71	255

Linear ball valve type 546 Pro



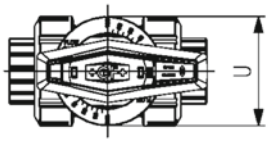
Linear ball valve type 546 Pro PVC-U
With solvent cement sockets metric

Model:

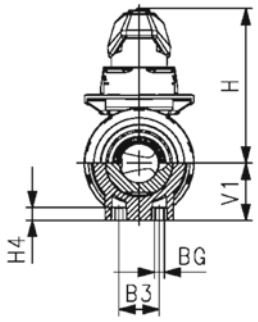
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 90° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Types 546 Linear/ 546 (Pro) and 542

Option:

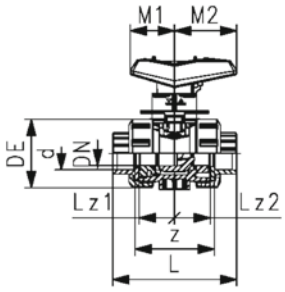
- Individual configuration of the valve
- Pneumatic or electric actuators from GF
- Other materials on demand



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code
20	½	15	10	90	**161 546 951**	0.156	**161 546 961**
25	¾	20	10	166	**161 546 952**	0.240	**161 546 962**
32	1	25	10	235	**161 546 953**	0.343	**161 546 963**
40	1 ¼	32	10	417	**161 546 954**	0.610	**161 546 964**
50	1 ½	40	10	626	**161 546 955**	0.838	**161 546 965**
63	2	50	10	781	**161 546 956**	1.537	**161 546 966**

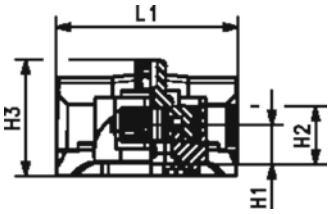


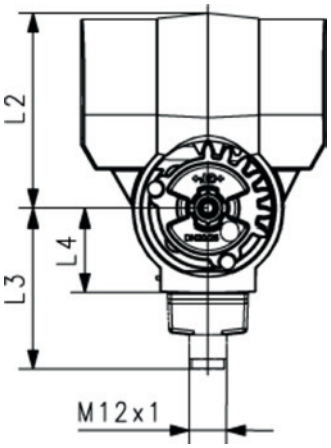
d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)	z (mm)
20	35	47	28.0	28.0	95	27	72	99	50	M6	25	12	59	64
25	44	62	32.5	32.5	110	30	91	121	58	M6	25	12	68	72
32	44	62	35.5	35.5	123	36	96	132	68	M6	25	12	68	79
40	57	74	42.5	42.5	146	44	116	160	84	M8	45	15	81	94
50	57	74	44.5	44.5	157	51	122	173	97	M8	45	15	81	95
63	66	86	50.5	50.5	183	64	141	205	124	M8	45	15	91	107



Accessory for Ball valves type 546 Pro







Manual spring return unit for ball valves 546 Pro and 543 Pro
Retrofit kit

Model:

- Manual spring return unit ("Dead-man lever") ensures that the valve closes after operation
- For safe sampling, dosing, cleaning or draining
- Retrofit possible with ball valve 546 (Pro)
- Includes transparent clip for valve labelling

Option:

- Double sensor for position feedback

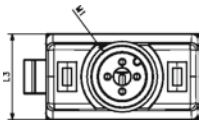
Note:

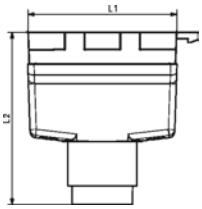
*optional accessory to use a bigger lever for higher operating torque

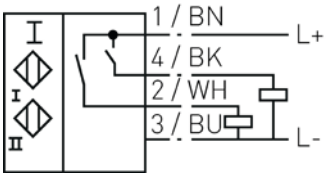
d (mm)	DN (mm)	Code
16 - 20	10 - 15	**198 546 082**
25 - 32	20 - 25	**198 546 083**

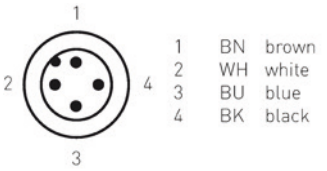
Adapter for bigger lever*	Bigger size lever*	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H1 (mm)	H2 (mm)	H3 (mm)
198546088	167484549 (DN20)	74	42.5	46.0	22	11.0	20.0	42.5
198546089	167484551 (DN32)	79	63.0	51.5	27	17.5	25.5	50.5











Double sensor for electrical position feedback
For double sensor (Ball valve 546 Pro, 543 Pro and Butterfly Valve 565/567/578)

Model:

- Accessory for Ball Valve type 546 Pro, 543 Pro and Butterfly Valve 565/567/578
- Enables electrical position feedback, incl. LED, in combination with GF interface module
- IP67 rating
- Female connector and cables available – see 198546150 – 154
- NAMUR version has ATEX and IECEx certification
- Dimensions: Ball Valves 546 Pro and 543 Pro DN10-100, Butterfly Valve 565 DN50-300, Butterfly Valve 567/578 DN50-200 and DN350-600

Specifications:
Housing material: PBTGF20
Switching function: 2x normally open (NO)
Output type: PNP or NPN
Output polarity: DC
Output type: 3-wire
Operating voltage (U_B): 10... 30V DC
Reverse polarity protection: all connections
Voltage drop (U_d): ≤3V
Operating current (L_L): 0... 150mA
Off-state current (L_r): 0... 0.5mA typ. 0.1 µA at 25°C
No-load supply current (L_0): ≤25mA
Ambient temperature: -25...70°C (-13...158°F)
Connection (system side): 4-pin, M12 x 1 connector
Standards: EN 60947-5-2:2007, EN 60947-5-2/A1:2012 IEC 60947-5-2:2007, IEC 60947-5-2 AMD 1:2012
$MTTF_d$ 948 a

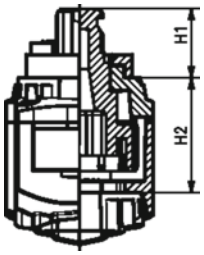
Note:
*NAMUR sensor does not work with 565
For manually operated valves an additional switching ring (article number 199565900-199565003) is required. For electric or pneumatic operated valves, the switching ring is already pre-assembled.

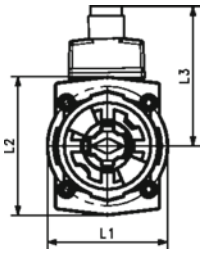
LED Signal Colour	PNP Code	Weight (kg)	NPN Code	*Namur (Atex) Code	L1 (mm)	L2 (mm)	L3 (mm)	M1
Closed: green / open: red	**198 546 001**	0.050	**198 546 005**	**198 546 003**	26	30	15	M12
Closed: red / open: green	**198 546 002**	0.050	**198 546 006**	**198 546 004**	26	30	15	M12

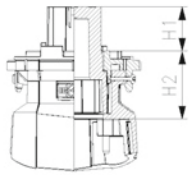
Specifications	PNP/NPN	NAMUR
Technology	Inductive	Inductive
Output circuit	PNP, NPN 2x NO contact	NAMUR 2x NC contact
Hysteresis	Typical 5%	Typical 10%
Switching frequency	<500 Hz	<1000 Hz
Switching status display	Output 1 / 2	Output 1 / 2
Art. Nr. 198546001 PNP	LED red / green	
Art. Nr. 198546002 PNP	LED green / red	
Art. Nr. 198546005 NPN	LED red / green	
Art. Nr. 198546006 NPN	LED green / red	
Art. Nr. 198546003 NAMUR		LED green / red
Art. Nr. 198546004 NAMUR		LED red / green
Supply voltage range +Vs	10...30V DC	8.2 V
Operating current	0...150 mA	
Voltage drop (Ud)	≤3V	
Off-state current (Ir)	0... 0.5mA typ. 0.1 µA bei 25°C	
No-load supply current (I0)	≤ 25 mA	≥ 3 mA
MTTFd	780 a	2122 a
Short-circuit proof	yes	
Reverse polarity protected	yes	
Protection class	IP67	
Housing material	PBTGF20	
Operating temperature	-25...70 °C (-13...158°F)	
Connection	4-pin, M12x1	
NAMUR version Approvals/certificates	Safety integrity level: SIL 2 IECEx TUR 20.0002X (Ga, Gb, Mb) TÜV 19 ATEX 8467 X(Ga, Gb)	

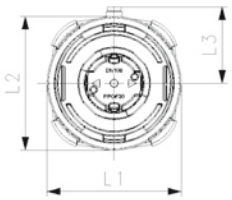












Manual Interface module
For Ball Valve Type 546 Pro & 543 Pro

Model:

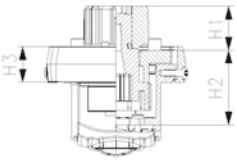
- Accessory for manual ball valve type 546 Pro and 543 Pro
- Position feedback through double sensor with LED (PNP, NPN and NAMUR) possible
- Inclusive labelling clip

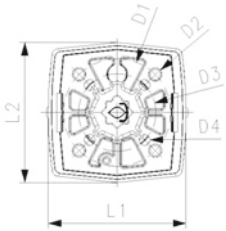
Ball Valve 543 Pro requires an additional spacer ring (DN10-15: 198543000, DN20-25: 198543001, DN32-40: 198543002, DN50: 198543003)

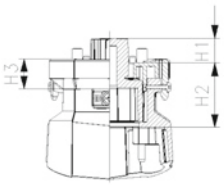
DN (mm)	d (mm)	Manual Interface Code	Weight (kg)	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)
10 - 15	16 - 20	**198 546 102**	0.042	15	32	37	44	46
20 - 25	25 - 32	**198 546 103**	0.052	20	32	41	47	48
32 - 40	40 - 50	**198 546 105**	0.097	23	33	53	60	54
50	63	**198 546 107**	0.111	26	36	56	62	55
65 - 80	75 - 90	**198 546 108**	0.111	34	52	103	103	58
100	110	**198 546 109**	0.111	34	52	103	103	58

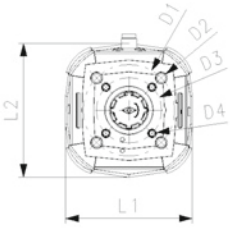












Interface module for GF actuators
For Ball Valve Type 546 Pro and 543 Pro

Model:

- Interface module acts as interface between GF actuators and ball valves
- Position feedback through double sensor with LED (PNP, NPN and NAMUR) possible
- Inclusive labelling clip

Ball Valve 543 Pro requires an additional spacer ring (DN10-15: 198543000, DN20-25: 198543001, DN32-40: 198543002, DN50: 198543003)

	DN (mm)	d (mm)	Interface for PPA Code	Weight (kg)	Interface for EA Code	Weight (kg)
	10 - 15	16 - 20	**198 546 162**	0.130	**198 546 142**	0.100
	20	25	**198 546 163**	0.105	**198 546 143**	0.100
	25	32	**198 546 164**	0.105	**198 546 144**	0.105
	32	40	**198 546 135**	0.001	**198 546 145**	0.140
	40	50	**198 546 136**	1.000	**198 546 146**	0.140
	50	63	**198 546 137**	1.000	**198 546 147**	0.140
if PPA40	65 - 80	75 - 90	**198 546 165**	0.001	**198 546 148**	0.140
if PPA80	65 - 80	75 - 90	**198 546 166**	0.135		
	100	110	**198 546 167**	0.001	**198 546 149**	0.140

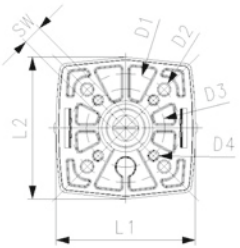
	DN (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2	D3 (mm)	D4
	10 - 15	16	35	17	65	65	50	M6	36	M5
	20	16	35	17	65	65	50	M6	36	M5
	25	16	35	17	65	65	50	M6	36	M5
	32	18	33	15	72	79	50	M6		
	40	18	33	15	72	79	50	M6		
	50	18	36	15	72	79	50	M6		
if PPA40	65 - 80	19	49	23	92	91	70	M8	50	M6
if PPA80	65 - 80	19	49	23	92	91	70	M8	50	M6
	100	18	49	23	97	103	70	M8	50	M6



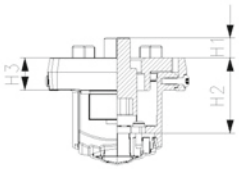
Interface module with diagonal square head for ISO5211 actuators
For Ball Valve Type 543 Pro & 546 Pro

Model:

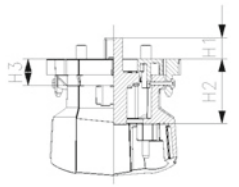
- Interface module connects non-GF actuators and ball valves
- Norm interface according to ISO 2023:5211 with diagonal square head
- Inclusive transparent labelling clip
- No possibility for position feedback through double sensor with LED

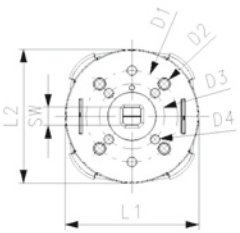


DN (mm)	d (mm)	Interface ISO5211 Code	Weight (kg)
DN 10-15 SW09, F03/F05	16 - 20	**198 546 122**	0.111
DN 10-15 SW11/14, F03/F05	16 - 20	**198 546 123**	0.111
DN 20-25 SW09, F03/F05	25 - 32	**198 546 124**	0.120
DN 20-25 SW11/14, F03/F05	25 - 32	**198 546 125**	0.120
DN 32-40 SW11/14, F05	40 - 50	**198 546 126**	0.130
DN 50 SW11/14, F05	63	**198 546 127**	0.130



DN (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2	D3 (mm)	D4
DN 10-15 SW09, F03/F05	9	35	15	65	65	50	M6	36	M5
DN 10-15 SW11/14, F03/F05	11	35	15	65	65	50	M6	36	M5
DN 20-25 SW09, F03/F05	9	35	15	65	65	50	M6	36	M5
DN 20-25 SW11/14, F03/F05	11	35	15	65	65	50	M6	36	M5
DN 32-40 SW11/14, F05	11	33	13	72	79	50	M6	36	M5
DN 50 SW11/14, F05	11	36	13	72	79	50	M6	36	M5







Adapter for padlocks
For Ball valve type 546 Pro

Model:

- Accessory for ball valve type 546 Pro
- Accepts Shackle Diameter up to 9/32in (7mm)
- Holds up to 2 safety padlocks

DN (mm)	Code
10-50	**198 546 099**



Female connector
For double sensor (Ball valve 546 Pro and Butterfly Valve 565)

Model:

- Accessory for Ball Valve type 546 Pro and Butterfly Valve 565
- Connects double sensor to PLC
- Cable is flame-resistant
- Degree of protection IP67 / IP68 / IP69K

Note:

Degree of protection: EN60529:2000
Standards: IEC 61076-2-101:2008
Ambient temperature:
- Body: -40 ... 90 °C (-40 ... 194 °F)
- cable, fixed: -25 ... 70 °C (-13 ... 158 °F)
- cable, flexing: -5 ... 70 °C (23 ... 158 °F)
Pollution degree: 3

Code	Model
198 546 150	Connector without cable
198 546 151	Connector with cable (5m PVC)
198 546 152	Connector with cable (10m PVC)
198 546 153	Connector with cable (5m PUR)
198 546 154	Connector with cable (10m PUR)



Transparent lever clip for ball valve labelling

Option:

- Component for ball valve Type 546 Pro, 543 Pro, 523 Pro
- Material: SAN
- UV-, weather- and chemical resistant
- Allows valve marking in conjunction with perforated printing sheets
- Perforated printing sheets are not included (depending on dimension see 198 807 231 - 198807 236)

Inch (inch)	d-d (mm)	DN-DN (mm)	Code	Quantity
⅜ - ½	16 - 20	10 - 15	**198 807 221**	10 pc's
¾ - 1	25 - 32	20 - 25	**198 807 222**	10 pc's
1 ¼ - 1 ½	40 - 50	32 - 40	**198 807 223**	5 pc's
2	63	50	**198 807 224**	5 pc's
2 ½ - 3	75 - 90	65 - 80	**198 807 225**	5 pc's
4	110	100	**198 807 226**	5 pc's



Printing sheets for ball valve labelling

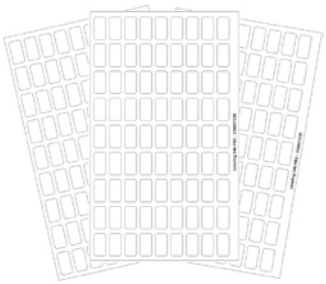
Option:

- Component for ball valve Type 546 Pro, 543 Pro, 523 Pro
- Material: DIN A4 Polymer-sheet
- UV-, weather- and chemical resistant
- Allows valve marking in conjunction with transparent lever clip
- Can be labelled with laser printers or by hand
- Transparent lever clip is not included (depending on dimension see 198 807 221 - 198 807 226)

Inch (inch)	d-d (mm)	DN-DN (mm)	Code	Quantity
⅜ - ½	16 - 20	10 - 15	**198 807 231**	25 Sheets with each 48 Labels
¾ - 1	25 - 32	20 - 25	**198 807 232**	25 Sheets with each 24 Labels
1 ¼ - 1 ½	40 - 50	32 - 40	**198 807 233**	25 Sheets with each 18 Labels
2	63	50	**198 807 234**	25 Sheets with each 11 Labels
2 ½ - 3	75 - 90	65 - 80	**198 807 235**	25 Sheets with each 6 Labels
4	110	100	**198 807 236**	25 Sheets with each 4 Labels

table continued on the next page

Inch (inch)	d-d (mm)	DN-DN (mm)	Code	Quantity
⅜ - ½	16 - 20	10 - 15	**198 807 241**	100 Sheets with each 48 Labels
¾ - 1	25 - 32	20 - 25	**198 807 242**	100 Sheets with each 24 Labels
1 ¼ - 1 ½	40 - 50	32 - 40	**198 807 243**	100 Sheets with each 18 Labels
2	63	50	**198 807 244**	100 Sheets with each 11 Labels



Printing sheets for ball valve labelling

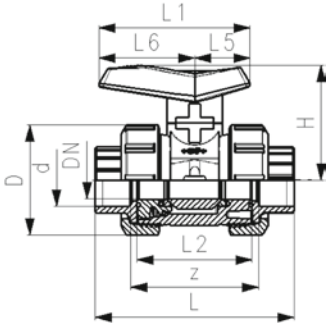
Option:

- Component for ball valve Type 546 Pro
- Material: Polymer-sheet
- UV-, weather- and chemical resistant
- Allows valve marking in interface module
- Can be labelled with laser printers or by hand
- Compatible with interface module

Inch (inch)	d-d (mm)	DN-DN (mm)	Code	Quantity
⅜ - 2	16 - 63	10 - 50	**198 807 230**	25 Sheets à 81 Labels

Ball valves type 542





Ball valve type 542 PVC-U
With cemented socket (metric)
With PTFE ball seal

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

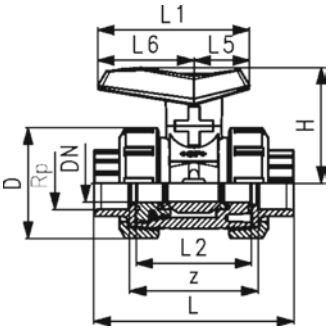
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	16	71	**161 542 001**	0.148	**161 542 011**	0.148
20	15	½	16	185	**161 542 002**	0.150	**161 542 012**	0.150
25	20	¾	16	350	**161 542 003**	0.233	**161 542 013**	0.233
32	25	1	16	700	**161 542 004**	0.336	**161 542 014**	0.336
40	32	1 ¼	16	1000	**161 542 005**	0.600	**161 542 015**	0.600
50	40	1 ½	16	1600	**161 542 006**	0.830	**161 542 016**	0.830
63	50	2	16	3100	**161 542 007**	1.523	**161 542 017**	1.523

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	92	72	56	26	46	64
20	50	54	95	72	56	26	46	63
25	58	66	110	93	65	34	59	73
32	68	71	124	93	71	34	59	79
40	84	85	147	110	85	41	69	94
50	97	92	157	110	89	41	69	95
63	124	108	184	128	101	49	79	108





Ball valve type 542 PVC-U
With threaded socket (Rp)

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

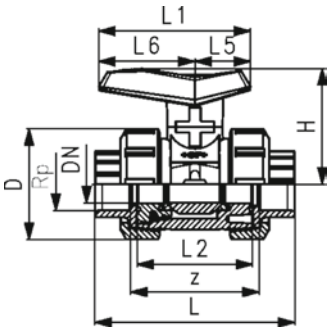
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	Rp	⅜	16	71	**161 542 021**	0.150	**161 542 031**	0.150
20	15	Rp	½	16	185	**161 542 022**	0.155	**161 542 032**	0.155
25	20	Rp	¾	16	350	**161 542 023**	0.238	**161 542 033**	0.238
32	25	Rp	1	16	700	**161 542 024**	0.348	**161 542 034**	0.348
40	32	Rp	1 ¼	16	1000	**161 542 025**	0.603	**161 542 035**	0.603
50	40	Rp	1 ½	16	1600	**161 542 026**	0.800	**161 542 036**	0.800
63	50	Rp	2	16	3100	**161 542 027**	1.575	**161 542 037**	1.575

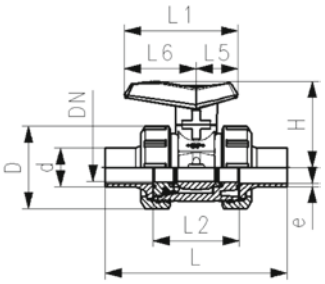
d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	95	72	56	26	46	69
20	50	54	100	72	56	26	46	67
25	58	66	115	93	65	34	59	79

table continued on the next page



d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
32	68	71	128	93	71	34	59	86
40	84	85	146	110	85	41	69	100
50	97	92	152	110	89	41	69	106
63	124	108	177	128	101	49	79	122





Ball valve type 542 PVC-U
With cemented spigots metric

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	16	71	**161 542 041**	0.155	**161 542 051**	0.155
20	15	½	16	185	**161 542 042**	0.155	**161 542 052**	0.155
25	20	¾	16	350	**161 542 043**	0.240	**161 542 053**	0.240
32	25	1	16	700	**161 542 044**	0.351	**161 542 054**	0.351
40	32	1 ¼	16	1000	**161 542 045**	0.610	**161 542 055**	0.610
50	40	1 ½	16	1600	**161 542 046**	0.840	**161 542 056**	0.840
63	50	2	16	3100	**161 542 047**	1.602	**161 542 057**	1.602

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	e (mm)
16	50	54	114	72	56	26	46	3.1
20	50	54	124	72	56	26	46	3.1
25	58	66	144	93	65	34	59	3.1
32	68	71	155	93	71	34	59	4.1
40	84	85	175	110	85	41	69	4.6
50	97	92	193	110	89	41	69	5.6
63	124	108	224	128	101	49	79	7.1



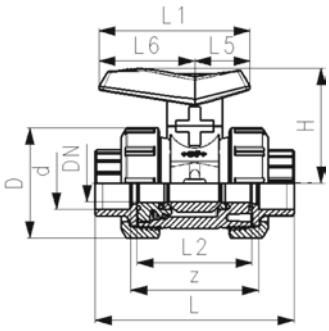
Ball valve type 542 PVC-U
With cemented socket (BS)
With PTFE ball seal

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	16	71	**161 542 201**	0.151	**161 542 211**	0.151
20	15	½	16	185	**161 542 202**	0.149	**161 542 212**	0.149
25	20	¾	16	350	**161 542 203**	0.229	**161 542 213**	0.229
32	25	1	16	700	**161 542 204**	0.334	**161 542 214**	0.334
40	32	1 ¼	16	1000	**161 542 205**	0.588	**161 542 215**	0.588
50	40	1 ½	16	1600	**161 542 206**	0.843	**161 542 216**	0.843
63	50	2	16	3100	**161 542 207**	1.564	**161 542 217**	1.564

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	92	72	56	26	46	60
20	50	54	95	72	56	26	46	60
25	58	66	111	93	65	34	59	69
32	68	71	124	93	71	34	59	76
40	84	85	147	110	85	41	69	89
50	97	92	157	110	89	41	69	96
63	124	108	184	128	101	49	79	110



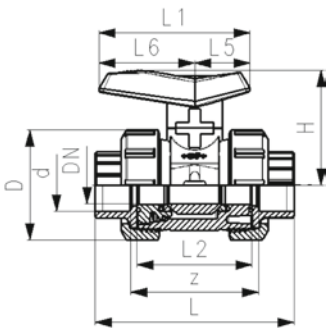
Ball valve type 542 PVC-U
With cemented socket (inch-ASTM)
With PTFE ball seal

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

Option:

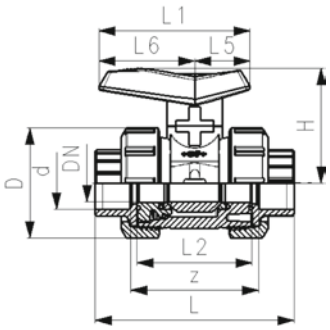
- Individual configuration of the valve possible
- Assembling of a valve tag possible



DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
10	⅜	16	71	**161 542 301**	0.180	**161 542 311**	0.180
15	½	16	185	**161 542 302**	0.227	**161 542 312**	0.227
20	¾	16	350	**161 542 303**	0.329	**161 542 313**	0.329
25	1	16	700	**161 542 304**	0.477	**161 542 314**	0.477
32	1 ¼	16	1000	**161 542 305**	0.786	**161 542 315**	0.786
40	1 ½	16	1600	**161 542 306**	1.082	**161 542 316**	1.082
50	2	16	3100	**161 542 307**	1.920	**161 542 317**	1.920

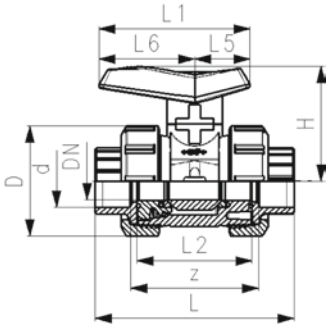
D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
50	54	105	72	56	26	46	67
50	54	105	72	56	26	46	60
58	66	122	93	65	34	59	70

table continued on the next page



D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
68	71	134	93	71	34	59	77
84	85	155	110	85	41	69	90
97	92	164	110	89	41	69	94
124	108	184	128	101	49	79	107





Ball valve type 542 PVC-U
With cemented socket (JIS)
With PTFE ball seal

Model:

- For easy installation and removal
- Ball seat PTFE/ red lever

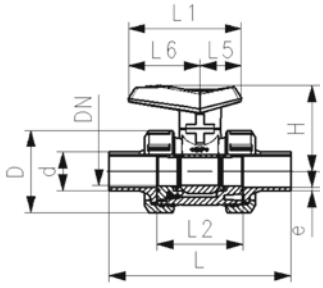
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	16	185	**161 542 402**	0.150	**161 542 412**	0.150
25	20	¾	16	350	**161 542 403**	0.232	**161 542 413**	0.232
32	25	1	16	700	**161 542 404**	0.232	**161 542 414**	0.232
40	32	1 ¼	16	1000	**161 542 405**	0.611	**161 542 415**	0.611
50	40	1 ½	16	1600	**161 542 406**	0.844	**161 542 416**	0.844
63	50	2	16	3100	**161 542 407**	1.563	**161 542 417**	1.563

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
20	50	54	95	72	56	26	46	63
25	58	66	111	93	65	34	59	72
32	68	71	124	93	71	34	59	80
40	84	85	147	110	85	41	69	94
50	97	92	157	110	89	41	69	94
63	124	108	184	128	101	49	79	108





ecoFIT Ball valve type 542 PVC-U
With butt fusion spigots PE100 - SDR11 metric
With PTFE ball seal

Model:

- Material: PVC-U/ PE
- For easy installation and removal
- Ball seat PTFE/ red lever

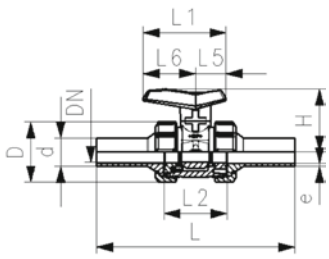
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	16	185	11	**161 542 782**	0.151	**161 542 792**	0.151
25	20	¾	16	350	11	**161 542 783**	0.231	**161 542 793**	0.231
32	25	1	16	700	11	**161 542 784**	0.329	**161 542 794**	0.329
40	32	1 ¼	16	1000	11	**161 542 785**	0.583	**161 542 795**	0.583
50	40	1 ½	16	1600	11	**161 542 786**	0.817	**161 542 796**	0.817
63	50	2	16	3100	11	**161 542 787**	1.505	**161 542 797**	1.505

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	e (mm)
20	50	54	130	72	56	26	46	1.9
25	58	66	144	93	65	34	59	2.3
32	68	71	151	93	71	34	59	2.9
40	84	85	171	110	85	41	69	3.7
50	97	92	189	110	89	41	69	4.6
63	124	108	220	128	101	49	79	5.8





ecoFIT Ball valve type 542 PVC-U
With butt fusion spigots long PE100 - SDR11 metric
With PTFE ball seal

Model:

- Material: PVC-U/ PE
- For easy installation and removal
- Ball seat PTFE/ red lever

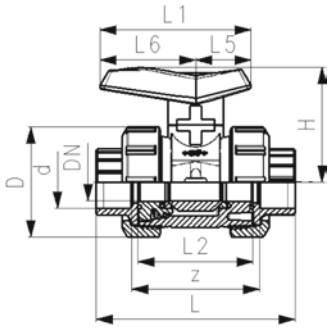
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	16	185	11	**161 542 822**	0.162	**161 542 832**	0.162
25	20	¾	16	350	11	**161 542 823**	0.248	**161 542 833**	0.248
32	25	1	16	700	11	**161 542 824**	0.362	**161 542 834**	0.362
40	32	1 ¼	16	1000	11	**161 542 825**	0.550	**161 542 835**	0.550
50	40	1 ½	16	1600	11	**161 542 826**	0.886	**161 542 836**	0.886
63	50	2	16	3100	11	**161 542 827**	1.630	**161 542 837**	1.630

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	e (mm)
20	50	54	193	72	56	26	46	1.9
25	58	66	218	93	65	34	59	2.3
32	68	71	224	93	71	34	59	2.9
40	84	85	250	110	85	41	69	3.7
50	97	92	271	110	89	41	69	4.6
63	124	108	321	128	101	49	79	5.8





Ball valve type 542 PVC-U
With cemented socket (metric)
With PE ball seal

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

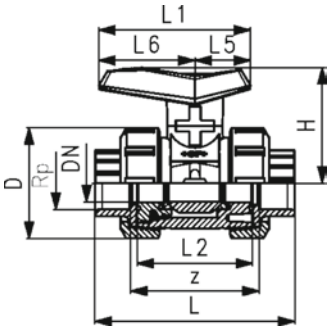
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	⅜	10	16	71	**161 541 001**	0.148
20	½	15	16	185	**161 541 002**	0.150
25	¾	20	16	350	**161 541 003**	0.233
32	1	25	16	700	**161 541 004**	0.336
40	1 ¼	32	16	1000	**161 541 005**	0.600
50	1 ½	40	16	1600	**161 541 006**	0.830
63	2	50	16	3100	**161 541 007**	1.523

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	92	72	56	26	46	64
20	50	54	95	72	56	26	46	63
25	58	66	110	93	65	34	59	73
32	68	71	124	93	71	34	59	79
40	84	85	147	110	85	41	69	94
50	97	92	157	110	89	41	69	95
63	124	108	184	128	101	49	79	108





Ball valve type 542
With PVC-U threaded socket (Rp)

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

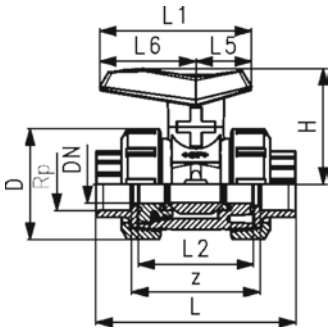
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	10	Rp	⅜	16	71	**161 541 021**	0.150
20	15	Rp	½	16	185	**161 541 022**	0.155
25	20	Rp	¾	16	350	**161 541 023**	0.238
32	25	Rp	1	16	700	**161 541 024**	0.348
40	32	Rp	1 ¼	16	1000	**161 541 025**	0.603
50	40	Rp	1 ½	16	1600	**161 541 026**	0.800
63	50	Rp	2	16	3100	**161 541 027**	1.575

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	95	72	56	26	46	69
20	50	54	100	72	56	26	46	67
25	58	66	115	93	65	34	59	79

table continued on the next page



d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
32	68	71	128	93	71	34	59	86
40	84	85	146	110	85	41	69	100
50	97	92	152	110	89	41	69	106
63	124	108	177	128	101	49	79	122



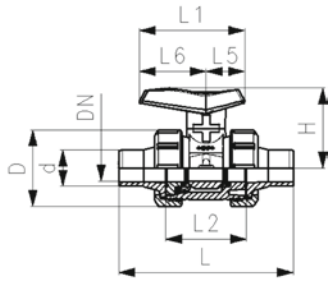
Ball valve type 542 PVC-U
With cemented spigots metric

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

Option:

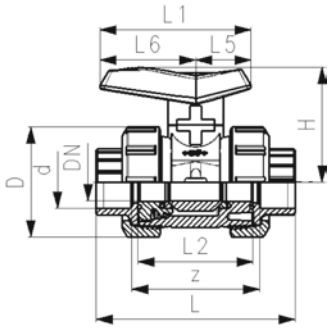
- Individual configuration of the valve possible
- Assembling of a valve tag possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	10	⅜	16	71	**161 541 041**	0.155
20	15	½	16	185	**161 541 042**	0.155
25	20	¾	16	350	**161 541 043**	0.240
32	25	1	16	700	**161 541 044**	0.351
40	32	1 ¼	16	1000	**161 541 045**	0.610
50	40	1 ½	16	1600	**161 541 046**	0.840
63	50	2	16	3100	**161 541 047**	1.602

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	e (mm)
16	50	54	114	72	56	26	46	3.1
20	50	54	124	72	56	26	46	3.1
25	58	66	144	93	65	34	59	3.1
32	68	71	155	93	71	34	59	4.1
40	84	85	175	110	85	41	69	4.6
50	97	92	193	110	89	41	69	5.6
63	124	108	224	128	101	49	79	7.1





Ball valve type 542 PVC-U
With cemented socket (BS)
With PE ball seal

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

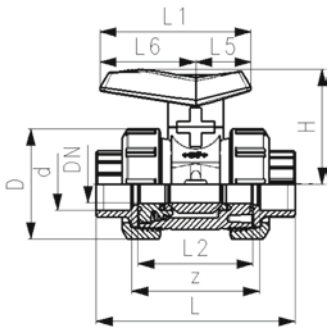
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
10	⅜	16	71	**161 541 201**	0.151
15	½	16	185	**161 541 202**	0.149
20	¾	16	350	**161 541 203**	0.229
25	1	16	700	**161 541 204**	0.334
32	1 ¼	16	1000	**161 541 205**	0.588
40	1 ½	16	1600	**161 541 206**	0.843
50	2	16	3100	**161 541 207**	1.564

D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
50	54	92	72	56	26	46	60
50	54	95	72	56	26	46	60
58	66	111	93	65	34	59	69
68	71	124	93	71	34	59	76
84	85	147	110	85	41	69	89
97	92	157	110	89	41	69	96
124	108	184	128	101	49	79	110





Ball valve type 542 PVC-U
With cemented socket (inch-ASTM)
With PE ball seal

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

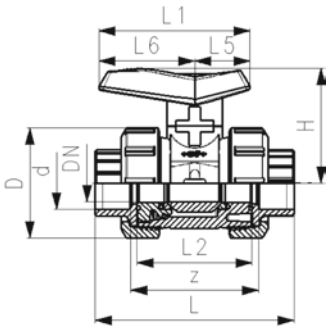
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
16	10	⅜	16	71	**161 541 301**	0.180
20	15	½	16	185	**161 541 302**	0.227
25	20	¾	16	350	**161 541 303**	0.329
32	25	1	16	700	**161 541 304**	0.477
40	32	1 ¼	16	1000	**161 541 305**	0.786
50	40	1 ½	16	1600	**161 541 306**	1.082
63	50	2	16	3100	**161 541 307**	1.920

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
16	50	54	105	72	56	26	46	67
20	50	54	105	72	56	26	46	60
25	58	66	122	93	65	34	59	70

table continued on the next page



d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
32	68	71	134	93	71	34	59	77
40	84	85	155	110	85	41	69	90
50	97	92	164	110	89	41	69	94
63	124	108	184	128	101	49	79	107



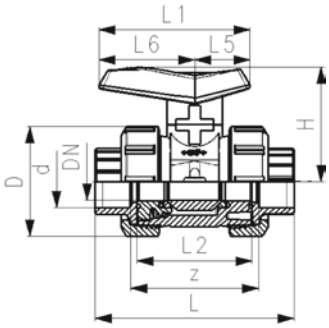
Ball valve type 542 PVC-U
With cemented socket (JIS)
With PE ball seal

Model:

- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

Option:

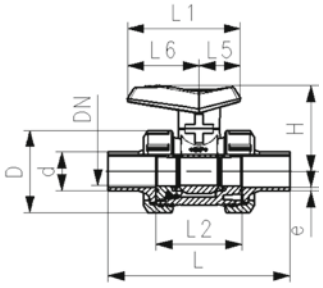
- Individual configuration of the valve possible
- Assembling of a valve tag possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	15	½	16	185	**161 541 402**	0.150
25	20	¾	16	350	**161 541 403**	0.232
32	25	1	16	700	**161 541 404**	0.232
40	32	1 ¼	16	1000	**161 541 405**	0.611
50	40	1 ½	16	1600	**161 541 406**	0.844
63	50	2	16	3100	**161 541 407**	1.563

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	z (mm)
20	50	54	95	72	56	26	46	63
25	58	66	111	93	65	34	59	72
32	68	71	124	93	71	34	59	80
40	84	85	147	110	85	41	69	94
50	97	92	157	110	89	41	69	94
63	124	108	184	128	101	49	79	108





ecoFIT Ball valve type 542 PVC-U
With butt fusion spigots PE100 - SDR11 metric
With PE ball seal

Model:

- Material: PVC-U/ PE
- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

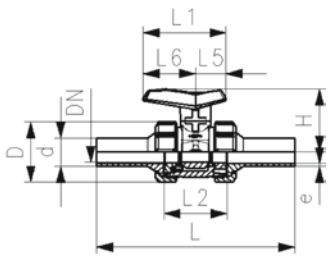
Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)
20	15	½	16	185	11	**161 541 782**	0.151
25	20	¾	16	350	11	**161 541 783**	0.231
32	25	1	16	700	11	**161 541 784**	0.329
40	32	1 ¼	16	1000	11	**161 541 785**	0.583
50	40	1 ½	16	1600	11	**161 541 786**	0.817
63	50	2	16	3100	11	**161 541 787**	1.505

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	e (mm)
20	50	54	130	72	56	26	46	1.9
25	58	66	144	93	65	34	59	2.3
32	68	71	151	93	71	34	59	2.9
40	84	85	171	110	85	41	69	3.7
50	97	92	189	110	89	41	69	4.6
63	124	108	220	128	101	49	79	5.8





ecoFIT Ball valve type 542 PVC-U
With butt fusion spigots long PE100 - SDR11 metric
With PE ball seal

Model:

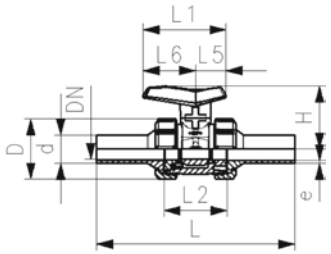
- Material: PVC-U/ PE
- For easy installation and removal
- Ball seat PE/ blue lever
- For water application

Option:

- Individual configuration of the valve possible
- Assembling of a valve tag possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	SDR	EPDM Code	Weight (kg)
20	15	½	16	185	11	**161 541 822**	0.162
25	20	¾	16	350	11	**161 541 823**	0.248
32	25	1	16	700	11	**161 541 824**	0.362
40	32	1 ¼	16	1000	11	**161 541 825**	0.550
50	40	1 ½	16	1600	11	**161 541 826**	0.886
63	50	2	16	3100	11	**161 541 827**	1.630

table continued on the next page



d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	e (mm)
20	50	54	193	72	56	26	46	1.9
25	58	66	218	93	65	34	59	2.3
32	68	71	224	93	71	34	59	2.9
40	84	85	250	110	85	41	69	3.7
50	97	92	271	110	89	41	69	4.6
63	124	108	321	128	101	49	79	5.8

Ball valves electric type 127



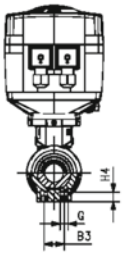
PVC-U Ball valve type 127
100-230V
With manual emergency override
With solvent cement sockets PVC-U ISO

Model:

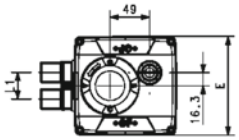
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

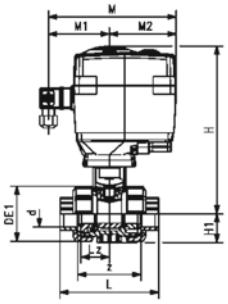
Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 127 002**	2.072	**199 127 012**	2.072
20	15	½	10	185	**199 127 003**	2.138	**199 127 013**	2.072
25	20	¾	10	350	**199 127 004**	2.231	**199 127 014**	2.232
32	25	1	10	700	**199 127 005**	2.340	**199 127 015**	2.189
40	32	1 ¼	10	1000	**199 127 006**	2.596	**199 127 016**	2.592
50	40	1 ½	10	1600	**199 127 007**	2.829	**199 127 017**	2.914
63	50	2	10	3100	**199 127 008**	3.562	**199 127 018**	2.914





d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA15	25	50	122	M6	197	27	12	92	33	28	161	77	83	64
20	EA15	25	50	122	M6	197	27	12	95	33	28	161	77	83	64
25	EA15	25	58	122	M6	201	30	12	110	33	33	161	77	83	72
32	EA15	25	68	122	M8	207	36	12	123	33	36	161	77	83	79
40	EA15	45	84	122	M8	213	44	15	146	33	43	161	77	83	94
50	EA15	45	97	122	M8	219	51	15	157	33	45	161	77	83	95
63	EA15	45	124	122	M8	234	64	15	183	33	51	161	77	83	107



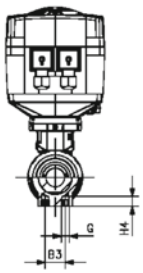
PVC-U Ball valve type 127
24V
With manual emergency override
With solvent cement sockets PVC-U ISO

Model:

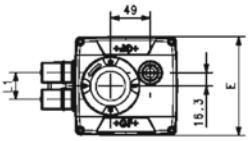
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

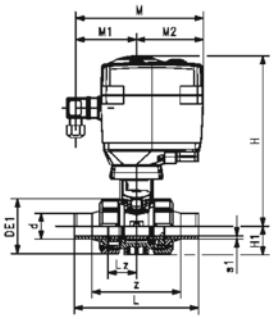
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 127 042**	2.122	**199 127 052**	2.072
20	15	½	10	185	**199 127 043**	2.122	**199 127 053**	2.125
25	20	¾	10	350	**199 127 044**	2.216	**199 127 054**	2.860
32	25	1	10	700	**199 127 045**	2.321	**199 127 055**	2.189
40	32	1 ¼	10	1000	**199 127 046**	3.831	**199 127 056**	2.592
50	40	1 ½	10	1600	**199 127 047**	2.809	**199 127 057**	3.437
63	50	2	10	3100	**199 127 048**	3.547	**199 127 058**	3.772



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
16	EA15	25	50	122	M6	197	27	12	114	33	28	161	77	83	3.0
20	EA15	25	50	122	M6	197	27	12	124	33	28	161	77	83	3.0
25	EA15	25	58	122	M6	201	30	12	144	33	33	161	77	83	3.0
32	EA15	25	68	122	M6	207	36	12	154	33	36	161	77	83	4.0
40	EA15	45	84	122	M8	213	44	15	174	33	43	161	77	83	4.5
50	EA15	45	97	122	M8	219	51	15	194	33	45	161	77	83	5.5
63	EA15	45	124	122	M8	234	64	15	224	33	51	161	77	83	7.0



d (mm)	z (mm)
16	88
20	96
25	112
32	118
40	134
50	148
63	170



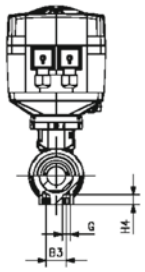
PVC-U Ball valve type 127
100-230V
With manual emergency override
With solvent cement spigots PVC-U ISO

Model:

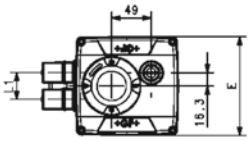
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

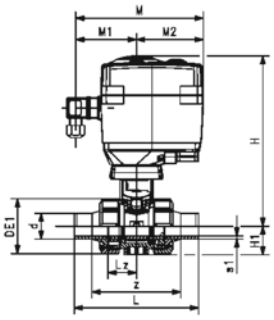
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 127 022**	2.072	**199 127 032**	2.072
20	15	½	10	185	**199 127 023**	2.072	**199 127 033**	2.072
25	20	¾	10	350	**199 127 024**	2.189	**199 127 034**	2.189
32	25	1	10	700	**199 127 025**	2.189	**199 127 035**	2.189
40	32	1 ¼	10	1000	**199 127 026**	2.603	**199 127 036**	2.592
50	40	1 ½	10	1600	**199 127 027**	2.914	**199 127 037**	2.914
63	50	2	10	3100	**199 127 028**	3.772	**199 127 038**	3.772



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
16	EA15	25	50	122	M6	197	27	12	114	33	28	161	77	83	3.0
20	EA15	25	50	122	M6	197	27	12	124	33	28	161	77	83	3.0
25	EA15	25	58	122	M6	201	30	12	144	33	33	161	77	83	3.0
32	EA15	25	68	122	M8	207	36	12	154	33	36	161	77	83	4.0
40	EA15	45	84	122	M8	213	44	15	174	33	43	161	77	83	4.5
50	EA15	45	97	122	M8	219	51	15	194	33	45	161	77	83	5.5
63	EA15	45	124	122	M8	234	64	15	224	33	51	161	77	83	7.0



d (mm)	z (mm)
16	88
20	96
25	112
32	118
40	134
50	148
63	170



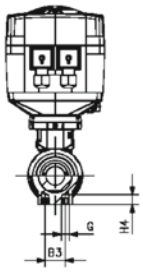
PVC-U Ball valve type 127
24V
With manual emergency override
With solvent cement spigots PVC-U ISO

Model:

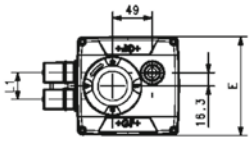
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

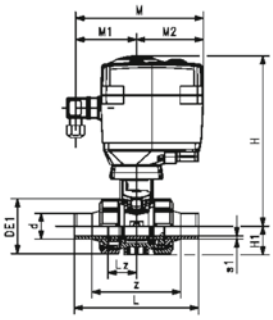
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 127 062**	2.072	**199 127 072**	2.072
20	15	½	10	185	**199 127 063**	2.072	**199 127 073**	1.830
25	20	¾	10	350	**199 127 064**	2.387	**199 127 074**	2.189
32	25	1	10	700	**199 127 065**	2.189	**199 127 075**	2.189
40	32	1 ¼	10	1000	**199 127 066**	2.592	**199 127 076**	2.592
50	40	1 ½	10	1600	**199 127 067**	2.914	**199 127 077**	2.914
63	50	2	10	3100	**199 127 068**	3.772	**199 127 078**	3.772



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	s1 (mm)
16	EA15	25	50	122	M6	197	27	12	114	33	28	161	77	83	3.0
20	EA15	25	50	122	M6	197	27	12	124	33	28	161	77	83	3.0
25	EA15	25	58	122	M6	201	30	12	144	33	33	161	77	83	3.0
32	EA15	25	68	122	M6	207	36	12	154	33	36	161	77	83	4.0
40	EA15	45	84	122	M8	213	44	15	174	33	43	161	77	83	4.5
50	EA15	45	97	122	M8	219	51	15	194	33	45	161	77	83	5.5
63	EA15	45	124	122	M8	234	64	15	224	33	51	161	77	83	7.0



d (mm)	z (mm)
16	88
20	96
25	112
32	118
40	134
50	148
63	170

+GF+



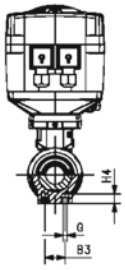
PVC-U Ball valve type 127
100-230V
With manual emergency override
With threaded sockets PVC-U ISO Rp

Model:

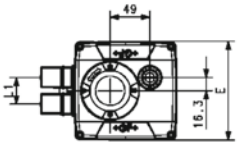
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

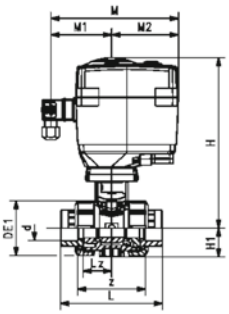
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	Thread Type	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	Rp	10	70	**199 127 622**	2.100	**199 127 632**	2.100
20	15	½	Rp	10	185	**199 127 623**	2.100	**199 127 633**	2.100
25	20	¾	Rp	10	350	**199 127 624**	2.232	**199 127 634**	2.200
32	25	1	Rp	10	700	**199 127 625**	2.300	**199 127 635**	2.300
40	32	1 ¼	Rp	10	1000	**199 127 626**	2.592	**199 127 636**	2.600
50	40	1 ½	Rp	10	1600	**199 127 627**	2.914	**199 127 637**	3.000
63	50	2	Rp	10	3100	**199 127 628**	3.772	**199 127 638**	3.800



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M1 (mm)	M2 (mm)	M (mm)	z (mm)
16	EA15	25	50	122	M6	197	27	12	95	33	28	77	83	161	69
20	EA15	25	50	122	M6	197	27	12	100	33	28	77	83	161	67
25	EA15	25	58	122	M6	201	30	12	114	33	33	77	83	161	78
32	EA15	25	68	122	M6	207	36	12	127	33	36	77	83	161	85
40	EA15	45	84	122	M8	213	44	15	146	33	43	77	83	161	100
50	EA15	45	97	122	M8	219	51	15	152	33	45	77	83	161	106
63	EA15	45	124	122	M8	234	64	15	177	33	51	77	83	161	121





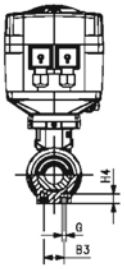
PVC-U Ball valve type 127
24V
With manual emergency override
With threaded sockets PVC-U ISO Rp

Model:

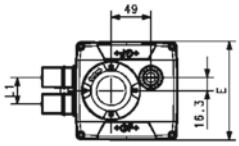
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

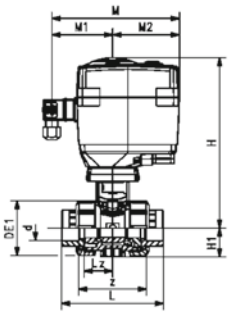
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	Thread Type	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	Rp	10	70	**199 127 662**	2.135	**199 127 672**	2.100
20	15	½	Rp	10	185	**199 127 663**	2.100	**199 127 673**	2.100
25	20	¾	Rp	10	350	**199 127 664**	2.200	**199 127 674**	2.200
32	25	1	Rp	10	700	**199 127 665**	2.327	**199 127 675**	2.300
40	32	1 ¼	Rp	10	1000	**199 127 666**	2.600	**199 127 676**	2.600
50	40	1 ½	Rp	10	1600	**199 127 667**	2.837	**199 127 677**	3.000
63	50	2	Rp	10	3100	**199 127 668**	3.602	**199 127 678**	3.800



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (inch)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M1 (mm)	M2 (mm)	M (mm)	z (mm)
16	EA15	25	50	122	M6	197	27	12	95	33	28	77	83	161	69
20	EA15	25	50	122	M6	197	27	12	100	33	28	77	83	161	67
25	EA15	25	58	122	M6	201	30	12	114	33	33	77	83	161	78
32	EA15	25	68	122	M6	207	36	12	127	33	36	77	83	161	85
40	EA15	45	84	122	M8	213	44	15	146	33	43	77	83	161	100
50	EA15	45	97	122	M8	219	51	15	152	33	45	77	83	161	106
63	EA15	45	124	122	M8	234	64	15	177	33	51	77	83	161	121



+GF+



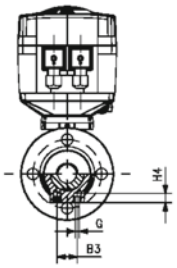
PVC-U Ball valve type 127
24V
With manual emergency override
With fixed flanges PVC-U ser. ISO

Model:

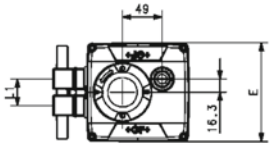
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

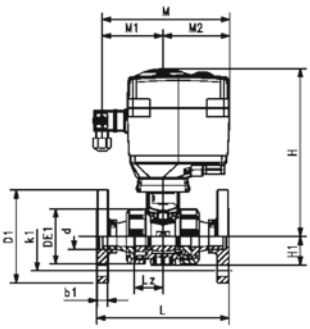
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	**199 127 643**	2.300	**199 127 653**	2.300
25	20	¾	10	350	**199 127 644**	2.500	**199 127 654**	2.500
32	25	1	10	700	**199 127 645**	2.700	**199 127 655**	2.700
40	32	1 ¼	10	1000	**199 127 646**	3.200	**199 127 656**	3.200
50	40	1 ½	10	1600	**199 127 647**	4.216	**199 127 657**	3.700
63	50	2	10	3100	**199 127 648**	4.663	**199 127 658**	4.800



d (mm)	Actuator	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)
20	EA15	12	25	95	50	122	M6	197	27	12	56	130	33	28	161
25	EA15	12	25	105	58	122	M6	201	30	12	75	150	33	33	161
32	EA15	14	25	115	68	122	M6	207	36	12	85	160	33	36	161
40	EA15	16	45	140	84	122	M8	213	44	15	100	180	33	43	161
50	EA15	16	45	150	97	122	M8	219	51	15	110	200	33	45	161
63	EA15	18	45	165	124	122	M8	234	64	15	125	230	33	51	161



d (mm)	M1 (mm)	M2 (mm)
20	77	83
25	77	83
32	77	83
40	77	83
50	77	83
63	77	83



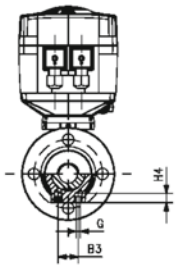
PVC-U Ball valve type 127
100-230V
With manual emergency override
With fixed flanges PVC-U ser. ISO

Model:

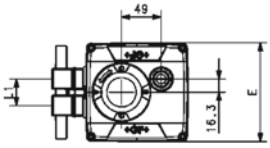
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close)
- Integrated stainless steel mounting inserts

Option:

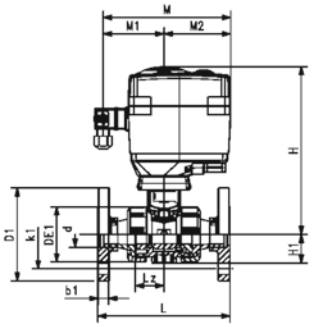
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	**199 127 603**	2.300	**199 127 613**	2.300
25	20	¾	10	350	**199 127 604**	2.500	**199 127 614**	2.500
32	25	1	10	700	**199 127 605**	2.717	**199 127 615**	2.700
40	32	1 ¼	10	1000	**199 127 606**	3.200	**199 127 616**	3.200
50	40	1 ½	10	1600	**199 127 607**	3.700	**199 127 617**	3.700
63	50	2	10	3100	**199 127 608**	4.676	**199 127 618**	4.776



d (mm)	Actuator	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)
20	EA15	12	25	95	50	122	M6	197	27	12	56	130	33	28	161
25	EA15	12	25	105	58	122	M6	201	30	12	75	150	33	33	161
32	EA15	14	25	115	68	122	M6	207	36	12	85	160	33	36	161
40	EA15	16	45	140	84	122	M8	213	44	15	100	180	33	43	161
50	EA15	16	45	150	97	122	M8	219	51	15	110	200	33	45	161
63	EA15	18	45	165	124	122	M8	234	64	15	125	230	33	51	161



d (mm)	M1 (mm)	M2 (mm)
20	77	83
25	77	83
32	77	83
40	77	83
50	77	83
63	77	83

Ball valves electric type 179



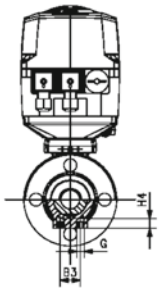
PVC-U Ball valve type 179
100-230V
With manual emergency override
With backing flanges PP-St ISO with PVC-U

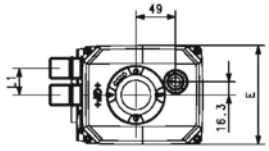
Model:

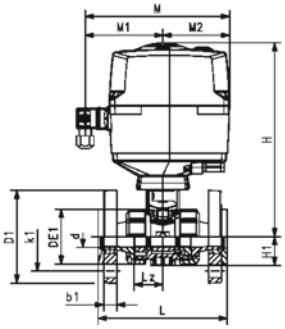
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card





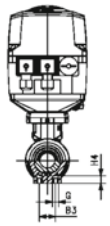


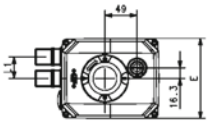
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 ½	10	5000	**199 179 349**	10.749	**199 179 359**	11.500
90	80	3	10	7000	**199 179 350**	14.900	**199 179 360**	14.900
110	100	4	10	11000	**199 179 351**	20.900	**199 179 361**	20.900

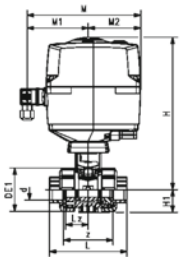
d (mm)	Actuator	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)
75	EA45	18	70	166	166	122	M8	313	85	15	145	290	33	68	180
90	EA45	20	70	200	200	122	M8	325	105	15	160	310	33	71	180
110	EA120	20	120	238	238	122	M12	363	123	22	180	350	33	82	180

d (mm)	M1 (mm)	M2 (mm)
75	98	82
90	98	82
110	98	82









PVC-U Ball valve type 179
24V
With manual emergency override
With solvent cement sockets PVC-U ISO

Model:

- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

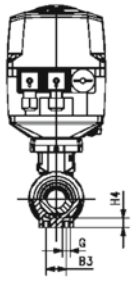
Option:

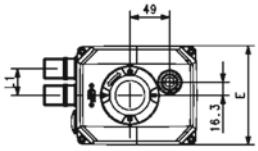
- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

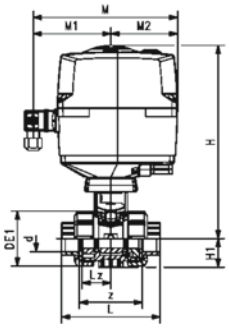
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 179 042**	3.112	**199 179 052**	2.100
20	15	½	10	185	**199 179 043**	2.447	**199 179 053**	2.100
25	20	¾	10	350	**199 179 044**	2.542	**199 179 054**	2.543
32	25	1	10	700	**199 179 045**	2.645	**199 179 055**	2.647
40	32	1 ¼	10	1000	**199 179 046**	2.905	**199 179 056**	2.600
50	40	1 ½	10	1600	**199 179 047**	3.000	**199 179 057**	3.144
63	50	2	10	3100	**199 179 048**	3.880	**199 179 058**	3.886
75	65	2 ½	10	5000	**199 179 049**	7.531	**199 179 059**	7.400
90	80	3	10	7000	**199 179 050**	9.800	**199 179 060**	9.800
110	100	4	10	11000	**199 179 051**	14.100	**199 179 061**	14.100

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	92	33	28	180	97	83	64
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	64
25	EA25	25	58	122	M6	231	30	12	110	33	33	180	97	83	72
32	EA25	25	68	122	M6	237	36	12	123	33	36	180	97	83	79
40	EA25	45	84	122	M8	243	44	15	146	33	43	180	97	83	94
50	EA25	45	97	122	M8	249	51	15	157	33	45	180	97	83	95
63	EA25	45	124	122	M8	264	64	15	183	33	51	180	97	83	107
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	144
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	151
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	174









PVC-U Ball valve type 179
100-230V
With manual emergency override
With solvent cement sockets PVC-U ISO

Model:

- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 179 002**	2.100	**199 179 012**	2.100
20	15	½	10	185	**199 179 003**	2.462	**199 179 013**	2.100
25	20	¾	10	350	**199 179 004**	2.563	**199 179 014**	2.200
32	25	1	10	700	**199 179 005**	2.300	**199 179 015**	2.300
40	32	1 ¼	10	1000	**199 179 006**	2.692	**199 179 016**	2.600
50	40	1 ½	10	1600	**199 179 007**	3.154	**199 179 017**	3.168
63	50	2	10	3100	**199 179 008**	3.888	**199 179 018**	3.800
75	65	2 ½	10	5000	**199 179 009**	7.631	**199 179 019**	7.400
90	80	3	10	7000	**199 179 010**	9.800	**199 179 020**	9.800
110	100	4	10	11000	**199 179 011**	14.791	**199 179 021**	14.100

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	92	33	28	180	97	83	64
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	64
25	EA25	25	58	122	M6	231	30	12	110	33	33	180	97	83	72
32	EA25	25	68	122	M6	237	36	12	123	33	36	180	97	83	79
40	EA25	45	84	122	M8	243	44	15	146	33	43	180	97	83	94
50	EA25	45	97	122	M8	249	51	15	157	33	45	180	97	83	95
63	EA25	45	124	122	M8	264	64	15	183	33	51	180	97	83	107
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	144
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	151
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	174



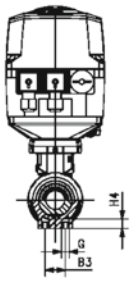
PVC-U Ball valve type 179
24V
With manual emergency override
With solvent cement sockets PVC-U ISO

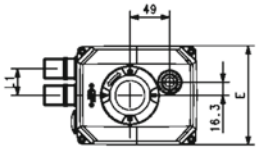
Model:

- Connectivity via NFC and Wi-Fi Direct ensuring control, identification and visibility without opening the case
- Most relevant asset data visualized in the app
- Integrated stainless steel mounting inserts
- LED stripe for visual open/close 360° feedback
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Connection and control via app possible

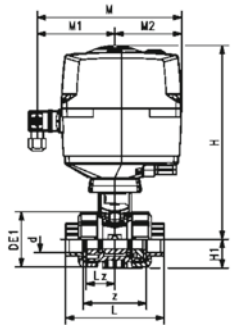
Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card





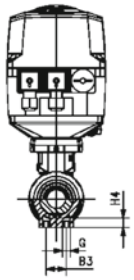
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 179 300**	3.112	**199 179 310**	2.100
20	15	½	10	185	**199 179 301**	2.447	**199 179 311**	2.100
25	20	¾	10	350	**199 179 302**	2.542	**199 179 312**	2.543
32	25	1	10	700	**199 179 303**	2.645	**199 179 313**	2.647
40	32	1 ¼	10	1000	**199 179 304**	2.905	**199 179 314**	2.600
50	40	1 ½	10	1600	**199 179 305**	3.000	**199 179 315**	3.144
63	50	2	10	3100	**199 179 306**	3.880	**199 179 316**	3.886
75	65	2 ½	10	5000	**199 179 307**	7.531	**199 179 317**	7.400
90	80	3	10	7000	**199 179 308**	9.800	**199 179 318**	9.800
110	100	4	10	11000	**199 179 309**	14.100	**199 179 319**	14.100

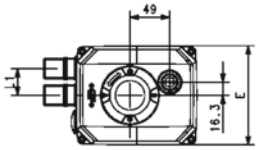


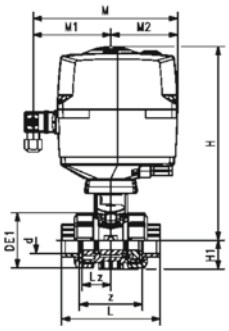
d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	dEA25	25	50	122	M6	227	27	12	92	33	28	180	97	83	64
20	dEA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	64
25	dEA25	25	58	122	M6	231	30	12	110	33	33	180	97	83	72
32	dEA25	25	68	122	M6	237	36	12	123	33	36	180	97	83	79
40	dEA25	45	84	122	M8	243	44	15	146	33	43	180	97	83	94
50	dEA25	45	97	122	M8	249	51	15	157	33	45	180	97	83	95
63	dEA25	45	124	122	M8	264	64	15	183	33	51	180	97	83	107
75	dEA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	144
90	dEA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	151
110	dEA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	174

Ball valves type 182 PVC-U









PVC-U Ball valve type 182
24V
With manual emergency override
With solvent cement sockets PVC-U ASTM

Model:

- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

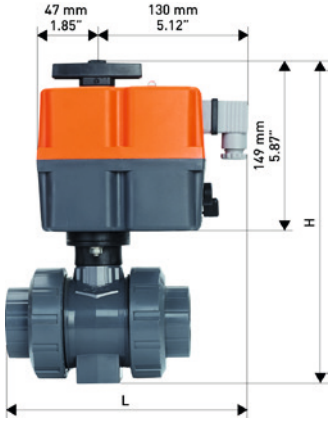
Option:

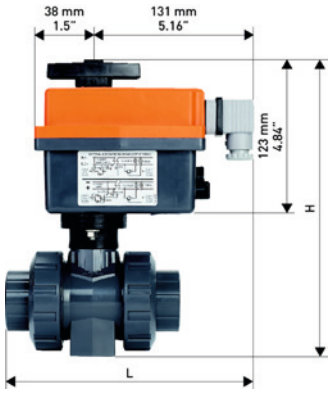
- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 182 022**	2.100	**199 182 032**	2.100
20	15	½	10	185	**199 182 023**	2.100	**199 182 033**	2.100
25	20	¾	10	350	**199 182 024**	2.200	**199 182 034**	2.200
32	25	1	10	700	**199 182 025**	2.300	**199 182 035**	2.300
40	32	1 ¼	10	1000	**199 182 026**	2.600	**199 182 036**	2.600
50	40	1 ½	10	1600	**199 182 027**	3.000	**199 182 037**	3.000
63	50	2	10	3100	**199 182 028**	3.800	**199 182 038**	3.800
75	65	2 ½	10	5000	**199 182 029**	7.400	**199 182 039**	7.400
90	80	3	10	7000	**199 182 030**	9.800	**199 182 040**	9.800
110	100	4	10	11000	**199 182 031**	13.900	**199 182 041**	13.900

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	92	33	28	180	97	83	64
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	64
25	EA25	25	58	122	M6	231	30	12	110	33	33	180	97	83	72
32	EA25	25	68	122	M6	237	36	12	123	33	36	180	97	83	79
40	EA25	45	84	122	M8	243	44	15	146	33	43	180	97	83	94
50	EA25	45	97	122	M8	249	51	15	157	33	45	180	97	83	95
63	EA25	45	124	122	M8	264	64	15	183	33	51	180	97	83	107
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	144
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	151
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	174

Ball valves electric type 104





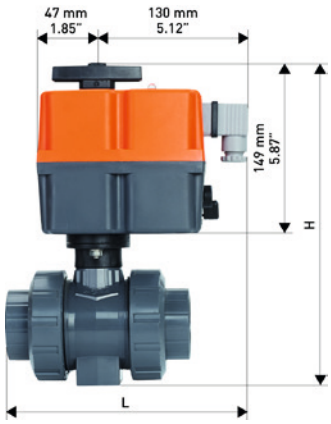
Ball valve type 104 PVC-U 100-230V
With solvent cement sockets metric

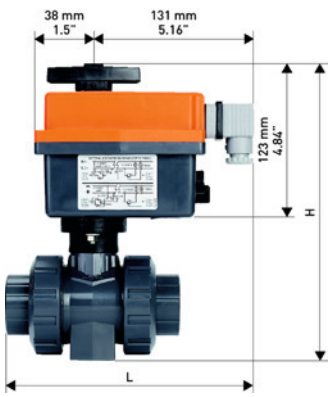
Model:

- Voltage according data sheet
- Control range 90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Voltage	EPDM Code	Weight (kg)	FKM Code
16	10	10	70	100-230V	**199 104 002**	0.995	**199 104 012**
20	15	10	185	100-230V	**199 104 003**	0.995	**199 104 013**
25	20	10	350	100-230V	**199 104 004**	1.050	**199 104 014**
32	25	10	700	100-230V	**199 104 005**	1.120	**199 104 015**
40	32	10	1000	100-230V	**199 104 006**	1.290	**199 104 016**
50	40	10	1600	24-240V	**199 104 047**	3.625	**199 104 057**
63	50	10	3100	24-240V	**199 104 048**	2.395	**199 104 058**

d (mm)	B (mm)	H (mm)	L (mm)	Type of actuator
16	50	194	178.5	10Nm
20	50	194	178.5	10Nm
25	58	207	186.0	10Nm
32	68	217	192.5	10Nm
40	84	236	204.5	10Nm
50	97	275	208.5	20Nm
63	124	307	221.5	20Nm





Ball valve type 104 PVC-U 24V
With solvent cement sockets metric

Model:

- Voltage according data sheet
- Control range 90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Voltage	EPDM Code	Weight (kg)	FKM Code
16	10	10	70	24V	**199 104 042**	0.995	**199 104 052**
20	15	10	185	24V	**199 104 043**	0.995	**199 104 053**
25	20	10	350	24V	**199 104 044**	1.050	**199 104 054**
32	25	10	700	24V	**199 104 045**	1.930	**199 104 055**
40	32	10	1000	24V	**199 104 046**	1.290	**199 104 056**
50	40	10	1600	24-240V	**199 104 047**	3.625	**199 104 057**
63	50	10	3100	24-240V	**199 104 048**	2.395	**199 104 058**

d (mm)	H (mm)	L (mm)	Type of actuator	B (mm)
16	194	178.5	10Nm	50
20	194	178.5	10Nm	50
25	207	186.0	10Nm	58
32	217	192.5	10Nm	68
40	236	204.5	10Nm	84
50	275	208.5	20Nm	97
63	307	221.5	20Nm	124

Product Configurator

Create your own ball valve



Electric Actuator

T01	EA 11 24V with Cable Plug
T02	EA 11 100-230V with Cable Plug
T07	EA 25 24V with Cable Plug
T08	EA 25 100-230V with Cable Plug
T09	EA 120 24V with Cable Plug
T10	EA 120 100-230V with Cable Plug
T11	EA 250 24V with Cable Plug
T12	EA 250 100-230V with Cable Plug

Angle (Open/ Close)

W45	45°
W90	90°
W180	180°

Middle Position

W17	No
W18	Yes



Colour Assignment Feedback

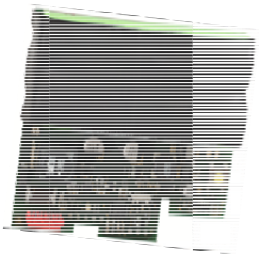
W20	Open = rot
W21	Open= grün

Position Feedback

W23	Open/ Close
W24	Open/ Close/ Middle
W25	Middle

Wiring Feedback

W26	NC
W28	NO



Heating Threshold

W29	5°
...	[5° steps]
W37	45°

Failsafe Return unit

W39	Integrated (Battery powered)
W40	External (no Battery - 24V needed)



Accessory

W42	Positioner
W43	Monitoring
W44	Profibus

Setting Positioner

W46	BCD = 0
...	
W55	BCD = 9



Setting Motor Current

W56	BCD = 0
...	
W65	BCD = 9

Setting Cycle Time Extension

W66	BCD = 0
...	
W75	BCD = 9

Setting Cycle Time Monitoring

W76	BCD = 0
...	
W85	BCD = 9

Setting Cycle Counter

W86	BCD = 0
...	
W96	BCD = 9



T08	W90	W17	W20	W23	W26	W29	W39	W42	W46	W65	-	-	-	=

PVC-U ball valves type 546 Pro with PPA



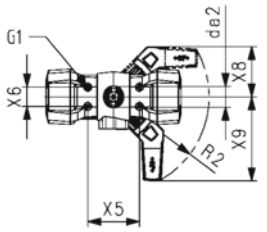
PVC-U Ball valve type 546 Pro with PPA
FC (Fail Safe to Close)
With solvent cement sockets PVC-U ISO
With manual override

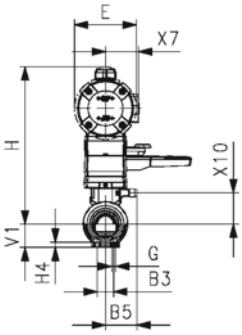
Model:

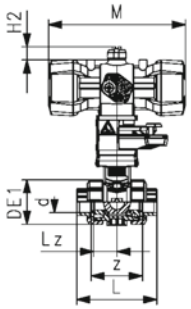
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 250 002**	1.459	**199 250 012**	1.459
20	15	½	10	185	**199 250 003**	6.136	**199 250 013**	1.459
25	20	¾	10	350	**199 250 004**	1.576	**199 250 014**	1.576
32	25	1	10	700	**199 250 005**	1.454	**199 250 015**	1.474
40	32	1 ¼	10	1000	**199 250 006**	2.436	**199 250 016**	2.443
50	40	1 ½	10	1600	**199 250 007**	2.664	**199 250 017**	2.670
63	50	2	10	3100	**199 250 008**	4.364	**199 250 018**	3.419

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	R2
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	92	28	159	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	95	28	159	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	110	33	159	R150
32	PPA15	25	17.5	33	68	94	M8	M5	238	20	12	123	36	211	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	146	43	211	R150
50	PPA40	45	23.3	33	97	120	M8	M5	273	20	15	157	45	246	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	183	51	246	R150

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	78	132	38.00	64
20	27	80	30	43	78	132	38.00	64
25	30	80	30	43	78	132	41.90	72
32	36	80	30	51	78	132	47.00	79
40	44	80	30	51	78	132	53.50	94
50	51	80	30	62	78	132	62.75	95
63	64	80	30	62	78	132	77.00	107



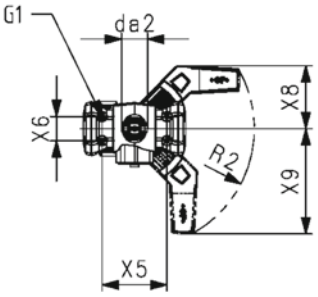
PVC-U Ball valve type 546 Pro with PPA
DA (Double acting)
With solvent cement sockets PVC-U ISO
With manual override

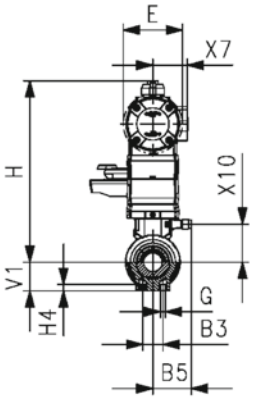
Model:

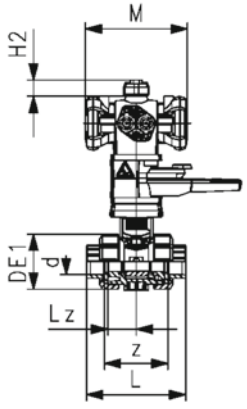
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 250 082**	1.459	**199 250 092**	1.459
20	15	½	10	185	**199 250 083**	1.459	**199 250 093**	1.044
25	20	¾	10	350	**199 250 084**	1.139	**199 250 094**	1.576
32	25	1	10	700	**199 250 085**	1.241	**199 250 095**	1.700
40	32	1 ¼	10	1000	**199 250 086**	1.941	**199 250 096**	2.751
50	40	1 ½	10	1600	**199 250 087**	2.172	**199 250 097**	3.073
63	50	2	10	3100	**199 250 088**	2.912	**199 250 098**	2.923

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	R2
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	92	28	128	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	95	28	128	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	110	33	128	R150
32	PPA08	25	17.5	33	68	94	M8	M5	238	20	12	123	36	128	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	146	43	159	R150
50	PPA15	45	23.3	33	97	120	M8	M5	273	20	15	157	45	159	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	183	51	184	R150

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	78	132	38.0	64
20	27	80	30	43	78	132	38.0	64
25	30	80	30	43	78	132	41.9	72
32	36	80	30	51	78	132	47.0	79
40	44	80	30	51	78	132	53.5	94
50	51	80	30	62	78	132	62.8	95
63	64	80	30	62	78	132	77.0	107



PVC-U Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With solvent cement sockets PVC-U ISO
Without manual override
5.6 bar control pressure

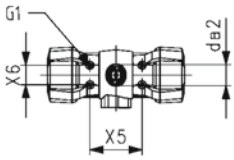
Model:

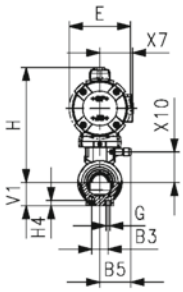
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

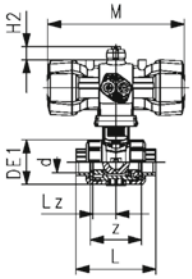
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID

* PPA04 FC/FO allows the usage of DN10/15 (1/2") ball valves with water as medium and operated in room temperature conditions (~20°C/68°F) only







	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
*	16	10	⅜	10	70	**199 250 000**	3.074	**199 250 010**	1.159
	16	10	⅜	10	70	**199 250 122**	3.074	**199 250 132**	1.159
*	20	15	½	10	185	**199 250 001**	1.034	**199 250 011**	1.034
	20	15	½	10	185	**199 250 123**	1.034	**199 250 133**	1.034
	25	20	¾	10	350	**199 250 124**	1.133	**199 250 134**	1.133
	32	25	1	10	700	**199 250 125**	1.400	**199 250 135**	1.238
	40	32	1 ¼	10	1000	**199 250 126**	2.183	**199 250 136**	2.188
	50	40	1 ½	10	1600	**199 250 127**	2.408	**199 250 137**	2.421
	63	50	2	10	3100	**199 250 128**	3.121	**199 250 138**	3.163
	75	65	2 ½	10	5000	**199 250 129**	6.136	**199 250 139**	7.800
	90	80	3	10	7000	**199 250 130**	9.536	**199 250 140**	10.200
	110	100	4	10	11000	**199 250 131**	15.500	**199 250 141**	15.500

	d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1	H (mm)	H2 (mm)	H4 (mm)	L (mm)	M (mm)	V1 (mm)
*	16	PPA04	25	16.2	33	50	74	M6	M5	155	20	12	92	115	27
	16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	92	159	27
*	20	PPA04	25	16.2	33	50	74	M6	M5	155	20	12	95	115	27
	20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	95	159	27
	25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	110	159	30
	32	PPA15	25	17.5	33	68	94	M8	M5	178	20	12	123	211	36
	40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	146	211	44
	50	PPA40	45	23.3	33	97	120	M8	M5	213	20	15	157	246	51
	63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	183	246	64
	75	PPA80	70	28.5	33	166	142	M8	M5	277	20	15	233	343	85
	90	PPA80	70	28.5	33	200	142	M8	M5	289	20	15	254	343	105
	110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	343	123

	d (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
*	16	80	30	43	38.00	64
	16	80	30	43	38.00	64
*	20	80	30	43	38.00	64
	20	80	30	43	38.00	64
	25	80	30	43	41.90	72
	32	80	30	51	47.00	79
	40	80	30	51	53.50	94
	50	80	30	62	62.75	95
	63	80	30	62	77.00	107
	75	80	30	74	119.00	144
	90	80	30	74	131.00	151
	110	80	30	74	145.00	174



PVC-U Ball valve type 546 Pro with PPA
FO (Fail safe to open)
With solvent cement sockets PVC-U ISO
Without manual override
5.6 bar control pressure

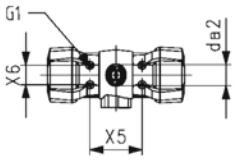
Model:

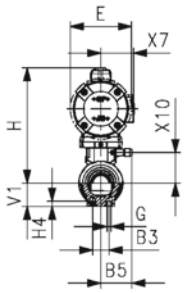
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

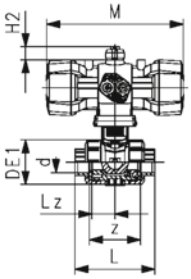
Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible

* PPA04 FC/FO allows the usage of DN10/15 (1/2") ball valves with water as medium and operated in room temperature conditions (~20°C/68°F) only







	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
*	16	10	⅜	10	70	**199 250 120**	1.159	**199 255 130**	1.159
	16	10	⅜	10	70	**199 250 162**	1.159	**199 250 172**	1.159
*	20	15	½	10	185	**199 250 121**	1.159	**199 255 131**	1.159
	20	15	½	10	185	**199 250 163**	1.159	**199 250 173**	1.159
	25	20	¾	10	350	**199 250 164**	1.128	**199 250 174**	1.276
	32	25	1	10	700	**199 250 165**	1.400	**199 250 175**	1.400
	40	32	1 ¼	10	1000	**199 250 166**	2.184	**199 250 176**	2.451
	50	40	1 ½	10	1600	**199 250 167**	2.388	**199 250 177**	2.773
	63	50	2	10	3100	**199 250 168**	3.156	**199 250 178**	3.631
	75	65	2 ½	10	5000	**199 250 169**	7.800	**199 250 179**	7.800
	90	80	3	10	7000	**199 250 170**	10.200	**199 250 180**	10.200
	110	100	4	10	11000	**199 250 171**	15.500	**199 250 181**	15.500

	d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)
*	16	PPA04	25	16.2	33	50.0	63	M6	M5	155	20	12	92	28
	16	PPA08	25	16.2	33	50.0	74	M6	M5	155	20	12	92	28
*	20	PPA04	25	16.2	33	50.0	63	M6	M5	155	20	12	95	28
	20	PPA08	25	16.2	33	50.0	74	M6	M5	155	20	12	95	28
	25	PPA08	25	17.5	33	58.0	74	M6	M5	159	20	12	110	33
	32	PPA15	25	17.5	33	68.0	94	M8	M5	178	20	12	123	36
	40	PPA15	45	23.3	33	84.0	94	M8	M5	184	20	15	146	43
	50	PPA40	45	23.3	33	97.0	120	M8	M5	213	20	15	157	45
	63	PPA40	45	24.3	33	124.0	120	M8	M5	228	20	15	183	51
	75	PPA80	70	28.5	33	166.0	142	M8	M5	277	20	15	233	68
	90	PPA80	70	28.5	33	200.0	142	M8	M5	289	20	15	254	71
	110	PPA80	120	28.5	33	238.0	142	M12	M5	324	20	22	301	82

	d (mm)	M (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
*	16	115	27	80	30	34	38.0	64
	16	159	27	80	30	43	38.0	64
*	20	115	27	80	30	34	38.0	64
	20	159	27	80	30	43	38.0	64
	25	159	30	80	30	43	41.9	72
	32	211	36	80	30	51	47.0	79
	40	211	44	80	30	51	53.5	94
	50	246	51	80	30	62	62.8	95
	63	246	64	80	30	62	77.0	107
	75	343	85	80	30	74	119.0	144
	90	343	105	80	30	74	131.0	151
	110	343	123	80	30	74	145.0	174



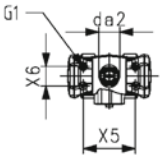
PVC-U Ball valve type 546 Pro with PPA
DA (Double Acting)
With solvent cement sockets PVC-U ISO
Without manual override
5.6 bar control pressure

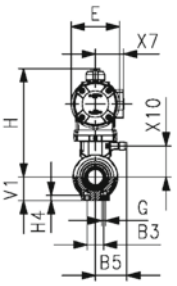
Model:

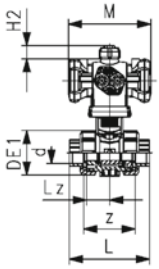
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 250 202**	0.805	**199 250 212**	1.159
20	15	½	10	185	**199 250 203**	0.807	**199 250 213**	1.159
25	20	¾	10	350	**199 250 204**	0.902	**199 250 214**	1.276
32	25	1	10	700	**199 250 205**	1.400	**199 250 215**	1.400
40	32	1 ¼	10	1000	**199 250 206**	1.691	**199 250 216**	2.451
50	40	1 ½	10	1600	**199 250 207**	1.919	**199 250 217**	2.773
63	50	2	10	3100	**199 250 208**	2.651	**199 250 218**	2.673
75	65	2 ½	10	5000	**199 250 209**	6.600	**199 250 219**	6.600
90	80	3	10	7000	**199 250 210**	9.500	**199 250 220**	9.500
110	100	4	10	11000	**199 250 211**	13.700	**199 250 221**	13.700

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	V1 (mm)
16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	92	28	128	27
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	95	28	128	27
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	110	33	128	30
32	PPA08	25	17.5	33	68	94	M8	M5	178	20	12	123	36	128	36
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	146	43	159	44
50	PPA15	45	23.3	33	97	120	M8	M5	213	20	15	157	45	159	51
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	183	51	184	64
75	PPA40	70	28.5	33	166	142	M8	M5	277	20	15	233	68	184	85
90	PPA40	70	28.5	33	200	142	M8	M5	289	20	15	254	71	184	105
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	261	123

d (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
16	80	30	43	38.0	64
20	80	30	43	38.0	64
25	80	30	43	41.9	72
32	80	30	51	47.0	79
40	80	30	51	53.5	94
50	80	30	62	62.8	95
63	80	30	62	77.0	107
75	80	30	74	119.0	144
90	80	30	74	131.0	151
110	80	30	74	145.0	174



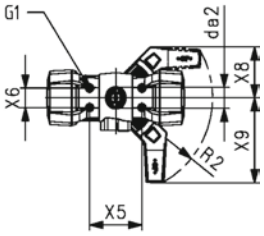
PVC-U Ball valve type 546 Pro with PPA
FC (Fail Safe to Close)
With solvent cement spigots PVC-U ISO
With manual override

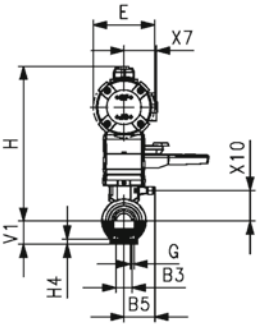
Model:

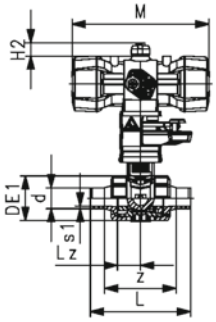
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 250 022**	1.459	**199 250 032**	1.459
20	15	½	10	185	**199 250 023**	1.459	**199 250 033**	1.459
25	20	¾	10	350	**199 250 024**	1.576	**199 250 034**	1.576
32	25	1	10	700	**199 250 025**	1.700	**199 250 035**	1.700
40	32	1 ¼	10	1000	**199 250 026**	2.751	**199 250 037**	3.073
50	40	1 ½	10	1600	**199 250 027**	3.073	**199 250 036**	2.751
63	50	2	10	3100	**199 250 028**	3.931	**199 250 038**	3.931

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	R2
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	114	28	159	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	124	28	159	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	144	33	159	R150
32	PPA15	25	17.5	33	68	94	M8	M5	238	20	12	154	36	211	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	174	43	211	R150
50	PPA40	45	23.3	33	97	120	M8	M5	273	20	15	194	45	246	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	224	51	246	R150

d (mm)	s1 (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)
16	3.0	27	80	30	43	78	132	38.00	88
20	3.0	27	80	30	43	78	132	38.00	96
25	3.0	30	80	30	43	78	132	41.90	112
32	4.0	36	80	30	51	78	132	47.00	118
40	4.5	44	80	30	51	78	132	53.50	134
50	5.5	51	80	30	62	78	132	62.75	148
63	7.0	64	80	30	62	78	132	77.00	170



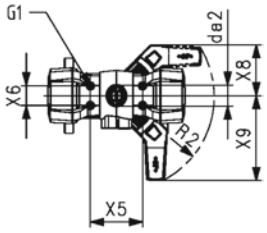
PVC-U Ball valve type 546 Pro with PPA
FC (Fail Safe to Close)
With fixed flanges PVC-U ser. ISO
With manual override

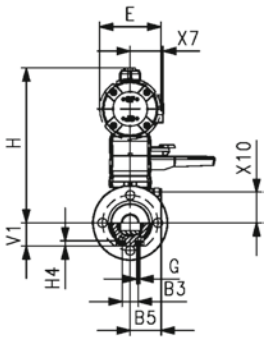
Model:

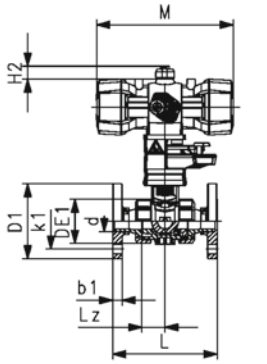
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	**199 250 243**	1.700	**199 250 253**	1.700
25	20	¾	10	350	**199 250 244**	1.900	**199 250 254**	1.900
32	25	1	10	700	**199 250 245**	1.858	**199 250 255**	2.100
40	32	1 ¼	10	1000	**199 250 246**	3.400	**199 250 256**	3.400
50	40	1 ½	10	1600	**199 250 247**	3.073	**199 250 257**	3.800
63	50	2	10	3100	**199 250 248**	4.900	**199 250 258**	4.900

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
20	PPA08	12	25	16.2	95	33	50	74	M6	M5	215	20	12	56	130
25	PPA08	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA15	14	25	17.5	115	33	68	94	M8	M5	238	20	12	85	160
40	PPA15	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA40	16	45	23.3	150	33	97	120	M8	M5	273	20	15	110	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	125	230

d (mm)	Lz (mm)	M (mm)	R2	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)
20	28	159	R150	27	80	30	43	78	132	38.0
25	33	159	R150	30	80	30	43	78	132	41.9
32	36	211	R150	36	80	30	51	78	132	47.0
40	43	211	R150	44	80	30	51	78	132	53.5
50	45	246	R150	51	80	30	62	78	132	62.8
63	51	246	R150	64	80	30	62	78	132	77.0



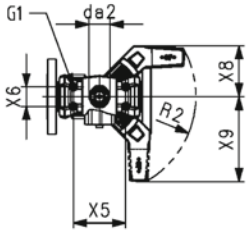
PVC-U Ball valve type 546 Pro with PPA
DA (Double Acting)
With fixed flanges PVC-U ser. ISO
With manual override

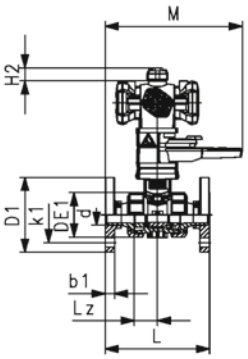
Model:

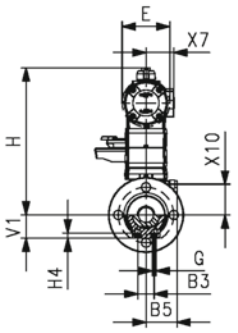
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	**199 250 283**	1.700	**199 250 293**	1.700
25	20	¾	10	350	**199 250 284**	1.900	**199 250 294**	1.900
32	25	1	10	700	**199 250 285**	2.100	**199 250 295**	2.100
40	32	1 ¼	10	1000	**199 250 286**	2.579	**199 250 296**	3.400
50	40	1 ½	10	1600	**199 250 287**	3.800	**199 250 297**	3.800
63	50	2	10	3100	**199 250 288**	4.900	**199 250 298**	4.900

d (mm)	Actuator	b1 (mm)	B3 (mm)	B5 (mm)	D1 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	k1 (mm)	L (mm)
20	PPA08	12	25	16.2	95	33	50	74	M6	M5	215	20	12	56	130
25	PPA08	12	25	17.5	105	33	58	74	M6	M5	219	20	12	75	150
32	PPA08	14	25	17.5	115	33	68	94	M8	M5	238	20	12	85	160
40	PPA15	16	45	23.3	140	33	84	94	M8	M5	244	20	15	100	180
50	PPA15	16	45	23.3	150	33	97	120	M8	M5	273	20	15	110	200
63	PPA40	18	45	24.3	165	33	124	120	M8	M5	288	20	15	125	230

d (mm)	Lz (mm)	M (mm)	R2	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)
20	28	128	R150	27	80	30	43	78	132	38.00
25	33	128	R150	30	80	30	43	78	132	41.90
32	36	128	R150	36	80	30	51	78	132	47.00
40	43	159	R150	44	80	30	51	78	132	53.50
50	45	159	R150	51	80	30	62	78	132	62.75
63	51	184	R150	64	80	30	62	78	132	77.00



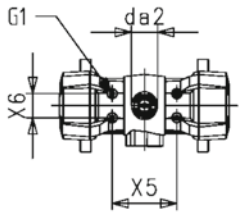
PVC-U Ball valve type 546 Pro with PPA
FC (Fail safe to close)
With fixed flanges serrated metric

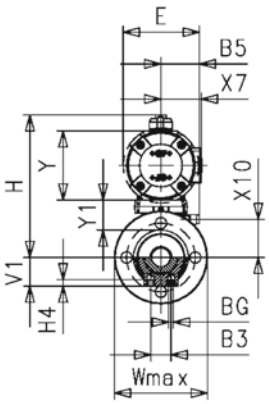
Model:

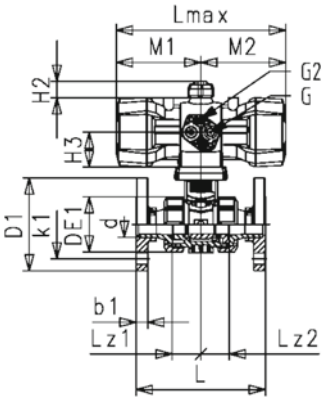
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with type 230 – 235 and 546 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	½	15	10	185	**199 250 303**	1.700	**199 250 313**	1.700
25	¾	20	10	350	**199 250 304**	1.900	**199 250 314**	1.900
32	1	25	10	700	**199 250 305**	2.100	**199 250 315**	2.100
40	1 ¼	32	10	1000	**199 250 306**	3.400	**199 250 316**	3.400
50	1 ½	40	10	1600	**199 250 307**	3.800	**199 250 317**	3.800
63	2	50	10	3100	**199 250 308**	4.900	**199 250 318**	4.900

d (mm)	Actuator	DE1 (mm)	M1 (mm)	M2 (mm)	Lmax (mm)	H2 (mm)	G2 (mm)	G (mm)	H3 (mm)	Lz1 (mm)	Lz2 (mm)	b1 (mm)	k1 (mm)	D1 (mm)
20	PPA08	50	80	80	159	20	M5	G 1/4	41	48	48	12	33	94
25	PPA08	58	80	80	159	20	M5	G 1/4	41	56	56	13	38	103
32	PPA15	68	106	106	211	20	M5	G 1/4	45	59	59	14	43	115
40	PPA15	84	106	106	211	20	M5	G 1/4	45	67	67	15	50	138
50	PPA40	97	123	123	246	20	M5	G 1/4	56	74	74	16	55	148
63	PPA40	124	123	123	246	20	M5	G 1/4	56	85	85	18	63	163

d (mm)	L (mm)	z (mm)	E (mm)	X7 (mm)	Y1 (mm)	Y (mm)	H (mm)	X10 (mm)	B3 (mm)	BG	Wmax (mm)	V1 (mm)	H4 (mm)	G1 (mm)	da2 (mm)
20	130	96	74	43	35	75	115	35	25	M6	94	27	12	M5	33
25	150	111	74	43	35	75	115	35	25	M6	103	30	12	M5	33
32	160	118	94	51	35	88	128	35	25	M6	115	36	12	M5	33
40	180	133	94	51	33	88	128	33	45	M8	138	44	15	M5	33
50	200	147	120	62	33	111	151	33	45	M8	148	51	15	M5	33
63	230	169	120	62	36	111	151	36	45	M8	163	64	15	M5	33

d (mm)	X6 (mm)	X5 (mm)
20	30	80
25	30	80
32	30	80
40	30	80
50	30	80
63	30	80



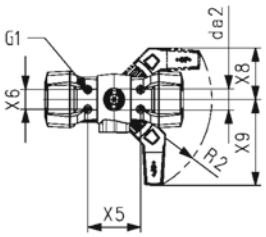
PVC-U Ball valve type 546 Pro with PPA
FC (Fail Safe to Close)
With threaded sockets PVC-U ISO Rp
With manual override

Model:

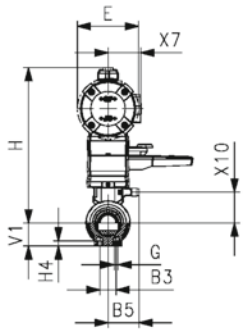
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

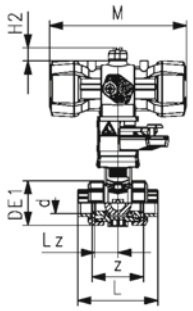
- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 250 362**	1.500	**199 250 372**	1.500
20	15	½	10	185	**199 250 363**	1.500	**199 250 373**	1.500
25	20	¾	10	350	**199 250 364**	1.369	**199 250 374**	1.600
32	25	1	10	700	**199 250 365**	1.700	**199 250 375**	1.700
40	32	1 ¼	10	1000	**199 250 366**	2.800	**199 250 376**	2.800
50	40	1 ½	10	1600	**199 250 367**	3.100	**199 250 377**	3.100
63	50	2	10	3100	**199 250 368**	4.000	**199 250 378**	4.000



d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	R2
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	95	28	159	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	100	28	159	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	114	33	159	R150
32	PPA15	25	17.5	33	68	94	M8	M5	238	20	12	127	36	211	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	146	43	211	R150
50	PPA40	45	23.3	33	97	120	M8	M5	273	20	15	152	45	246	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	177	51	246	R150



d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)	Thread Type
16	27	80	30	43	78	132	38.00	69	Rp
20	27	80	30	43	78	132	38.00	67	Rp
25	30	80	30	43	78	132	41.90	78	Rp
32	36	80	30	51	78	132	47.00	85	Rp
40	44	80	30	51	78	132	53.50	100	Rp
50	51	80	30	62	78	132	62.75	106	Rp
63	64	80	30	62	78	132	77.00	121	Rp



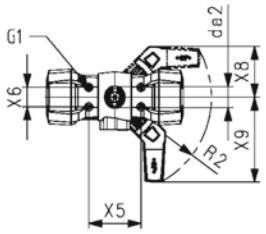
PVC-U Ball valve type 546 Pro with PPA
FO (Fail Safe to Open)
With solvent cement sockets PVC-U ISO
With manual override

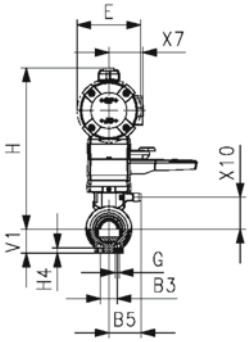
Model:

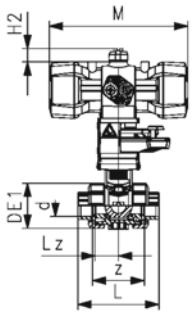
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 250 042**	1.459	**199 250 052**	1.459
20	15	½	10	185	**199 250 043**	1.459	**199 250 053**	1.459
25	20	¾	10	350	**199 250 044**	1.336	**199 250 054**	1.576
32	25	1	10	700	**199 250 045**	1.700	**199 250 055**	1.700
40	32	1 ¼	10	1000	**199 250 046**	2.751	**199 250 056**	2.751
50	40	1 ½	10	1600	**199 250 047**	3.073	**199 250 057**	3.073
63	50	2	10	3100	**199 250 048**	3.360	**199 250 058**	3.931

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	R2
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	95	28	159	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	92	28	159	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	110	33	159	R150
32	PPA15	25	17.5	33	68	94	M8	M5	238	20	12	123	36	211	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	146	43	211	R150
50	PPA40	45	23.3	33	97	120	M8	M5	273	20	15	157	45	246	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	183	51	246	R150

d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	78	132	38.00	64
20	27	80	30	43	78	132	38.00	64
25	30	80	30	43	78	132	41.90	72
32	36	80	30	51	78	132	47.00	79
40	44	80	30	51	78	132	53.50	94
50	51	80	30	62	78	132	62.75	95
63	64	80	30	62	78	132	77.00	107



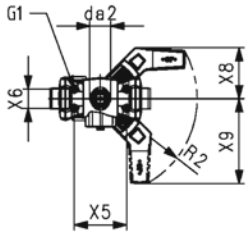
PVC-U Ball valve type 546 Pro with PPA
DA (Double Acting)
With solvent cement spigots PVC-U ISO
With manual override

Model:

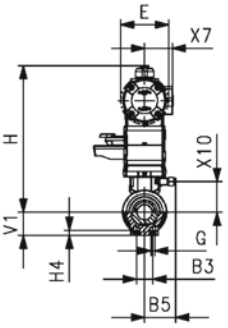
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

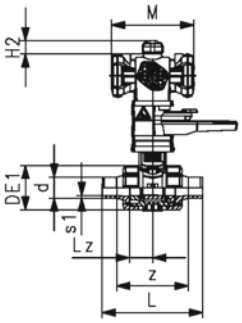
- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 250 102**	1.459	**199 250 112**	1.459
20	15	½	10	185	**199 250 103**	1.459	**199 250 113**	1.459
25	20	¾	10	350	**199 250 104**	1.576	**199 250 114**	1.576
32	25	1	10	700	**199 250 105**	1.700	**199 250 115**	1.700
40	32	1 ¼	10	1000	**199 250 106**	2.751	**199 250 116**	2.751
50	40	1 ½	10	1600	**199 250 107**	3.073	**199 250 117**	3.073
63	50	2	10	3100	**199 250 108**	3.931	**199 250 118**	3.931



d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	R2
16	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	114	28	128	R150
20	PPA08	25	16.2	33	50	74	M6	M5	215	20	12	124	28	128	R150
25	PPA08	25	17.5	33	58	74	M6	M5	219	20	12	144	33	128	R150
32	PPA08	25	17.5	33	68	94	M8	M5	238	20	12	154	36	128	R150
40	PPA15	45	23.3	33	84	94	M8	M5	244	20	15	174	43	159	R150
50	PPA15	45	23.3	33	97	120	M8	M5	273	20	15	194	45	159	R150
63	PPA40	45	24.3	33	124	120	M8	M5	288	20	15	224	51	184	R150



d (mm)	V1 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X8 (mm)	X9 (mm)	X10 (mm)	z (mm)
16	27	80	30	43	78	132	38.00	88
20	27	80	30	43	78	132	38.00	96
25	30	80	30	43	78	132	41.90	112
32	36	80	30	51	78	132	47.00	118
40	44	80	30	51	78	132	53.50	134
50	51	80	30	62	78	132	62.75	148
63	64	80	30	62	78	132	77.00	170



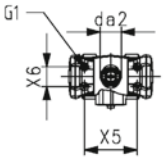
PVC-U Ball valve type 546 Pro with PPA
DA (Double Acting)
With solvent cement sockets PVC-U BS
Without manual override
5.6 bar control pressure

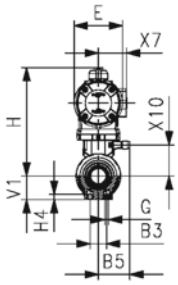
Model:

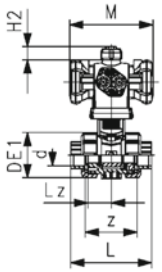
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 254 202**	1.200	**199 254 212**	1.200
20	15	½	10	185	**199 254 203**	1.200	**199 254 213**	1.200
25	20	¾	10	350	**199 254 204**	1.300	**199 254 214**	1.300
32	25	1	10	700	**199 254 205**	1.400	**199 254 215**	1.400
40	32	1 ¼	10	1000	**199 254 206**	2.500	**199 254 216**	2.500
50	40	1 ½	10	1600	**199 254 207**	2.800	**199 254 217**	2.800
63	50	2	10	3100	**199 254 208**	3.700	**199 254 218**	3.700
75	65	2 ½	10	5000	**199 254 209**	6.600	**199 254 219**	6.600
90	80	3	10	7000	**199 254 210**	9.600	**199 254 220**	9.600
110	100	4	10	11000	**199 254 211**	13.600	**199 254 221**	13.600

d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	V1 (mm)
16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	92	28	128	27
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	95	28	128	27
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	110	33	128	30
32	PPA08	25	17.5	33	68	94	M6	M5	178	20	12	123	36	128	36
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	146	43	159	44
50	PPA15	45	23.3	33	97	120	M8	M5	213	20	15	157	45	159	51
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	183	51	184	64
75	PPA40	70	28.5	33	166	142	M8	M5	277	20	15	233	68	184	85
90	PPA40	70	28.5	33	200	142	M8	M5	289	20	15	254	71	184	105
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	261	123

d (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)
16	80	30	43	38.0	64
20	80	30	43	38.0	64
25	80	30	43	41.9	72
32	80	30	51	47.0	79
40	80	30	51	53.5	94
50	80	30	62	62.8	95
63	80	30	62	77.0	107
75	80	30	74	119.0	144
90	80	30	74	131.0	151
110	80	30	74	145.0	174



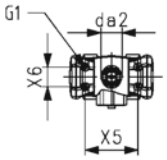
PVC-U Ball valve type 546 Pro with PPA
DA (Double acting)
With threaded sockets PVC-U ISO Rp
Without manual override
5.6 bar control pressure

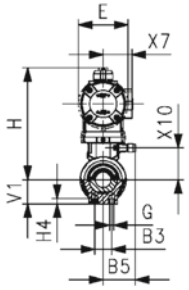
Model:

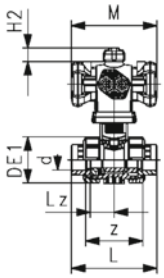
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Position feedback through double sensor with LED (PNP, NPN and NAMUR)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of valves possible







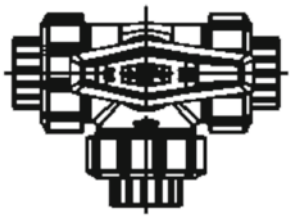
d (mm)	DN (mm)	PN (bar)	Size (inch)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	⅜	70	**199 250 712**	1.200	**199 250 732**	1.200
20	15	10	½	185	**199 250 713**	1.200	**199 250 733**	1.200
25	20	10	¾	350	**199 250 714**	1.300	**199 250 734**	1.300
32	25	10	1	700	**199 250 715**	1.400	**199 250 735**	1.400
40	32	10	1 ¼	1000	**199 250 716**	2.500	**199 250 736**	2.500
50	40	10	1 ½	1600	**199 250 717**	2.800	**199 250 737**	2.800
63	50	10	2	3100	**199 250 718**	3.700	**199 250 738**	3.700
75	65	10	2 ½	5000	**199 250 719**	6.700	**199 250 739**	6.700
90	80	10	3	7000	**199 250 720**	9.700	**199 250 740**	9.700
110	100	10	4	11000	**199 250 721**	13.700	**199 250 741**	13.700

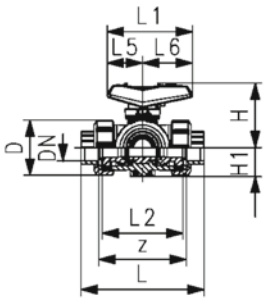
d (mm)	Actuator	B3 (mm)	B5 (mm)	da2 (mm)	DE1 (mm)	E (mm)	G (mm)	G1 (mm)	H (mm)	H2 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	V1 (mm)
16	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	95	28	128	27
20	PPA08	25	16.2	33	50	74	M6	M5	155	20	12	100	28	128	27
25	PPA08	25	17.5	33	58	74	M6	M5	159	20	12	114	33	128	30
32	PPA08	25	17.5	33	68	94	M8	M5	178	20	12	127	36	128	36
40	PPA15	45	23.3	33	84	94	M8	M5	184	20	15	146	43	159	44
50	PPA15	45	23.3	33	97	120	M8	M5	213	20	15	152	45	159	51
63	PPA40	45	24.3	33	124	120	M8	M5	228	20	15	177	51	184	64
75	PPA40	70	28.5	33	166	142	M8	M5	277	20	15	233	68	184	85
90	PPA40	70	28.5	33	200	142	M8	M5	289	20	15	254	71	184	105
110	PPA80	120	28.5	33	238	142	M12	M5	324	20	22	301	82	261	123

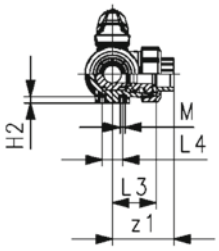
d (mm)	X5 (mm)	X6 (mm)	X7 (mm)	X10 (mm)	z (mm)	Thread Type
16	80	30	43	38.0	69	Rp
20	80	30	43	38.0	67	Rp
25	80	30	43	41.9	78	Rp
32	80	30	51	47.0	85	Rp
40	80	30	51	53.5	100	Rp
50	80	30	62	62.8	106	Rp
63	80	30	62	77.0	121	Rp
75	80	30	74	119.0	144	Rp
90	80	30	74	131.0	151	Rp
110	80	30	74	145.0	174	Rp

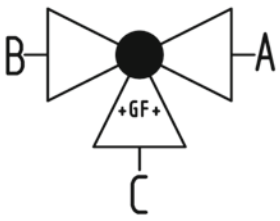
3-Way ball valves type 543 Pro













3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port
With solvent cement sockets metric

Model:

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

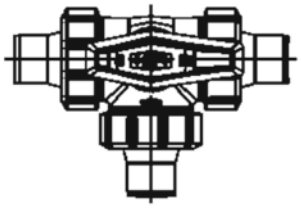
Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	**161 543 001**	0.245	**161 543 011**	0.245
20	15	½	10	75	**161 543 002**	0.230	**161 543 012**	0.251
25	20	¾	10	150	**161 543 003**	0.339	**161 543 013**	0.361
32	25	1	10	280	**161 543 004**	0.526	**161 543 014**	0.551
40	32	1 ¼	10	480	**161 543 005**	0.912	**161 543 015**	0.938
50	40	1 ½	10	620	**161 543 006**	1.600	**161 543 016**	1.388
63	50	2	10	1230	**161 543 007**	2.681	**161 543 017**	2.705

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	109	82	73	36	25	35	47	6	81	40	⅜
20	50	61	28	8	112	82	73	36	25	35	47	6	81	40	½
25	58	74	32	8	131	106	86	43	25	44	62	6	94	47	¾
32	68	80	36	8	151	106	99	50	25	44	62	6	107	54	1
40	84	95	45	9	181	131	120	60	45	57	74	8	130	65	1 ¼
50	97	102	51	9	205	131	137	69	45	57	74	8	143	72	1 ½
63	124	117	65	9	261	152	179	89	45	66	86	8	185	92	2





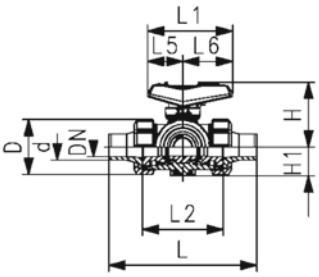
3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port
With solvent cement spigots metric

Model:

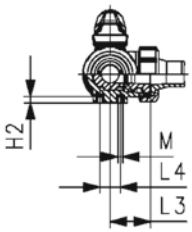
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

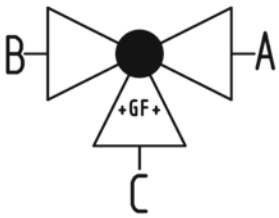
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	**161 543 021**	0.251	**161 543 031**	0.251
20	15	½	10	75	**161 543 022**	0.260	**161 543 032**	0.260
25	20	¾	10	150	**161 543 023**	0.376	**161 543 033**	0.376
32	25	1	10	280	**161 543 024**	0.546	**161 543 034**	0.575
40	32	1 ¼	10	480	**161 543 025**	0.959	**161 543 035**	0.959
50	40	1 ½	10	620	**161 543 026**	1.429	**161 543 036**	1.453
63	50	2	10	1230	**161 543 027**	2.831	**161 543 037**	2.827

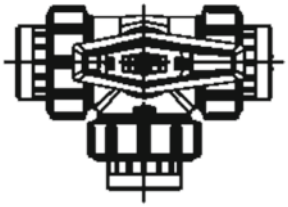


d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	M	closest inch (inch)
16	50	61	28	8	131	82	73	36	25	35	47	137	6	⅜
20	50	61	28	8	141	82	73	36	25	35	47	147	6	½
25	58	74	32	8	165	106	86	43	25	44	62	171	6	¾
32	68	80	36	8	182	106	99	50	25	44	62	188	6	1
40	84	95	45	9	209	131	120	60	45	57	74	215	8	1 ¼
50	97	102	51	9	242	131	137	69	45	57	74	248	8	1 ½
63	124	117	65	9	302	152	179	89	45	66	86	308	8	2









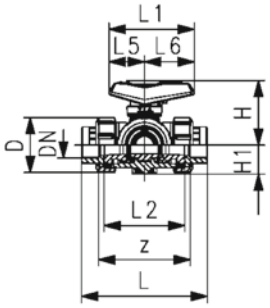
3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port
With threaded sockets Rp

Model:

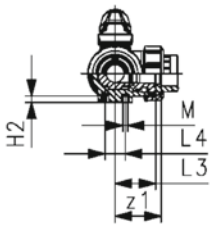
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

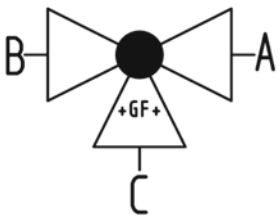
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	Rp	⅜	10	50	**161 543 041**	0.245	**161 543 051**	0.245
20	15	Rp	½	10	75	**161 543 042**	0.251	**161 543 052**	0.251
25	20	Rp	¾	10	150	**161 543 043**	0.361	**161 543 053**	0.361
32	25	Rp	1	10	280	**161 543 044**	0.551	**161 543 054**	0.551
40	32	Rp	1 ¼	10	480	**161 543 045**	0.938	**161 543 055**	0.938
50	40	Rp	1 ½	10	620	**161 543 046**	1.390	**161 543 056**	1.390
63	50	Rp	2	10	1230	**161 543 047**	2.705	**161 543 057**	2.705



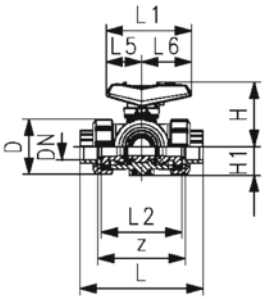
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	113	82	73	36	25	35	47	6	87	43
50	61	28	8	117	82	73	36	25	35	47	6	85	42
58	74	32	8	135	106	86	43	25	44	62	6	100	50
68	80	36	8	155	106	99	50	25	44	62	6	113	57
84	95	45	9	179	131	120	60	45	57	74	8	134	67
97	102	51	9	201	131	137	69	45	57	74	8	155	78
124	117	65	9	255	152	179	89	45	66	86	8	199	99

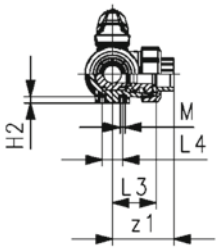


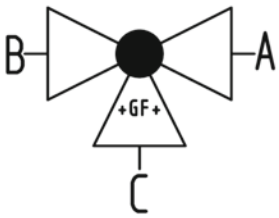


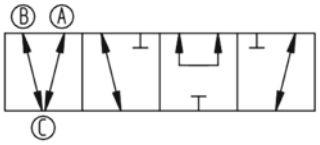












3-Way ball valve type 543 Pro PVC-U
Horizontal/T-port
With solvent cement sockets metric

Model:

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

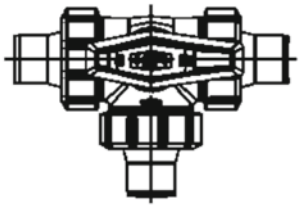
Option:

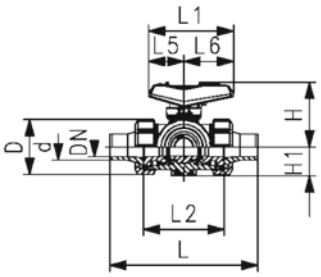
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

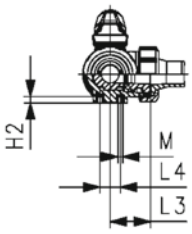
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	**161 543 201**	0.244	**161 543 211**	0.244
20	15	½	10	200	**161 543 202**	0.250	**161 543 212**	0.250
25	20		10	470	**161 543 203**	0.337	**161 543 213**	0.337
32	25		10	793	**161 543 204**	0.518	**161 543 214**	0.518
40	32	1 ¼	10	1290	**161 543 205**	0.901	**161 543 215**	0.901
50	40	1 ½	10	1910	**161 543 206**	1.589	**161 543 216**	1.589
63	50	2	10	3100	**161 543 207**	2.635	**161 543 217**	2.635

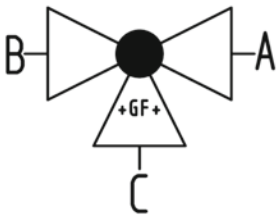
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	109	82	73	36	25	35	47	6	81	40	⅜
20	50	61	27	8	112	82	73	36	25	35	47	6	81	40	½
25	58	74	30	8	131	106	86	43	25	44	62	6	94	47	¾
32	68	80	36	8	151	106	99	50	25	44	62	6	107	54	1
40	84	95	44	9	181	131	120	60	45	57	74	8	130	65	1 ¼
50	97	102	51	9	205	131	137	69	45	57	74	8	143	72	1 ½
63	124	117	64	9	261	152	179	89	45	66	86	8	185	92	2

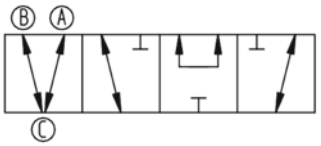












3-Way ball valve type 543 Pro PVC-U
Horizontal/T-port
With solvent cement spigots metric

Model:

- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

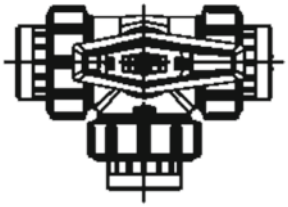
Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	**161 543 221**	0.250	**161 543 231**	0.250
20	15	½	10	200	**161 543 222**	0.259	**161 543 232**	0.259
25	20	¾	10	470	**161 543 223**	0.374	**161 543 233**	0.374
32	25		10	793	**161 543 224**	0.568	**161 543 234**	0.568
40	32	1 ¼	10	1290	**161 543 225**	0.948	**161 543 235**	0.948
50	40	1 ½	10	1910	**161 543 226**	1.432	**161 543 236**	1.432
63	50	2	10	3100	**161 543 227**	2.747	**161 543 237**	2.786

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	M	closest inch (inch)
16	50	57	28	8	131	82	73	36	25	35	47	137	6	⅜
20	50	57	28	8	141	82	73	36	25	35	47	147	6	½
25	58	67	32	8	165	106	86	43	25	44	62	171	6	¾
32	68	73	36	8	182	106	99	50	25	44	62	188	6	1
40	84	90	45	9	209	131	120	60	45	57	74	215	8	1 ¼
50	97	97	51	9	242	131	137	69	45	57	74	248	8	1 ½
63	124	116	65	9	302	152	179	89	45	66	86	308	8	2





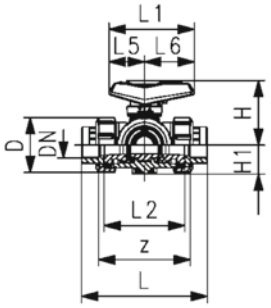
3-Way ball valve type 543 Pro PVC-U
Horizontal/T-port
With threaded sockets Rp

Model:

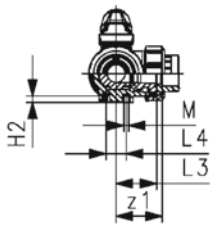
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

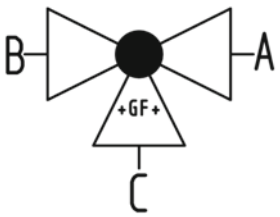
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

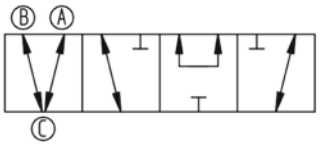


d (mm)	DN (mm)	Thread size	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	Rp	⅜	10	140	**161 543 241**	0.244	**161 543 251**	0.244
20	15	Rp	½	10	200	**161 543 242**	0.250	**161 543 252**	0.250
25	20	Rp	¾	10	470	**161 543 243**	0.359	**161 543 253**	0.359
	25	Rp	1	10	793	**161 543 244**	0.544	**161 543 254**	0.544
40	32	Rp	1 ¼	10	1290	**161 543 245**	0.927	**161 543 255**	0.927
50	40	Rp	1 ½	10	1910	**161 543 246**	1.386	**161 543 256**	1.400
63	50	Rp	2	10	3100	**161 543 247**	2.660	**161 543 257**	2.660



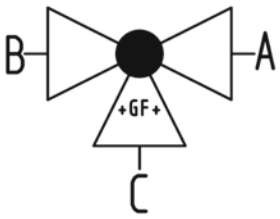
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	113	82	73	36	25	35	47	6	87	43
50	61	28	8	117	82	73	36	25	35	47	6	85	42
58	74	32	8	135	106	86	43	25	44	62	6	100	50
68	80	36	8	155	106	99	50	25	44	62	6	113	57
84	95	45	9	179	131	120	60	45	57	74	8	134	67
97	102	51	9	201	131	137	69	45	57	74	8	155	78
124	117	65	9	255	152	179	89	45	66	86	8	199	99

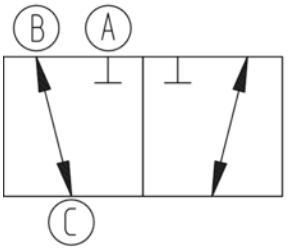


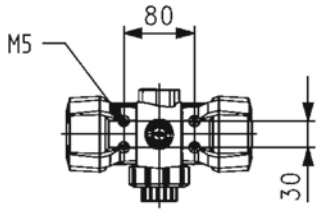


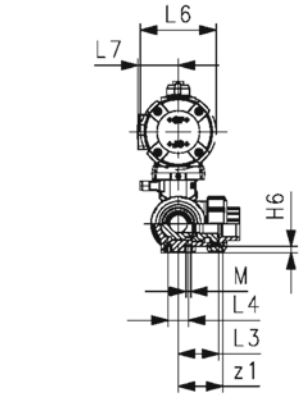
3-Way ball valves type 543 Pro P

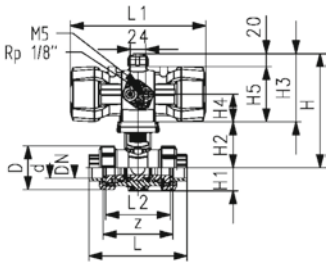












3-Way Ball Valve Type 543 Pro P PVC-U
Horizontal/L-port
FC (Fail safe to close)
Without manual override
With solvent cement sockets metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

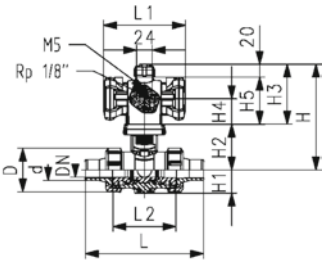
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

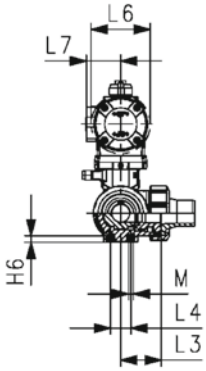
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	**199 295 022**	1.115	**199 295 032**	1.115
20	15	½	10	150	**199 295 023**	1.121	**199 295 033**	1.121
25	20	¾	10	150	**199 295 024**	1.227	**199 295 034**	1.228
32	25	1	10	280	**199 295 025**	1.439	**199 295 035**	1.413
40	32	1 ¼	10	480	**199 295 026**	2.539	**199 295 036**	2.539
50	40	1 ½	10	620	**199 295 027**	3.592	**199 295 037**	2.991
63	50	2	10	1230	**199 295 028**	4.298	**199 295 038**	4.352

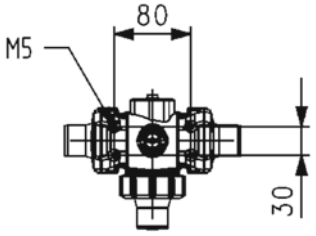
d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	109	159	73	36	25	74
20	PPA08	58	157	32	62	95	41	75	8	131	159	86	43	25	74
25	PPA15	58	179	32	71	108	45	88	8	131	211	86	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	151	211	99	50	25	94
40	PPA40	84	215	45	84	131	56	111	9	181	246	120	60	45	120
50	PPA40	97	215	51	84	131	56	111	9	205	246	137	69	45	120
63	PPA40	124	237	65	106	131	56	111	9	261	224	179	89	45	120

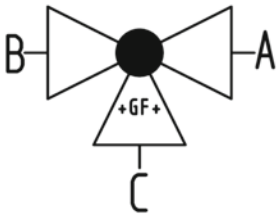
d (mm)	L7 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	32	6	81	40	⅜
20	32	6	94	47	¾
25	38	6	94	47	¾
32	38	6	107	54	1
40	47	8	130	65	1 ¼
50	47	8	143	72	1 ½
63	47	8	185	92	2

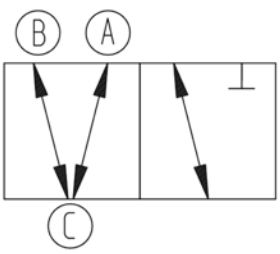












3-Way ball valve type 543 Pro P PVC-U
Horizontal/T-port
DA (Double acting)
Without manual override
With solvent cement spigots metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	**199 295 222**	0.930	**199 295 232**	0.930
20	15	½	10	200	**199 295 223**	0.939	**199 295 233**	0.939
25	20	¾	10	470	**199 295 224**	1.072	**199 295 234**	1.072
32	25	1	10	793	**199 295 225**	1.266	**199 295 235**	1.266
40	32	1 ¼	10	1290	**199 295 226**	2.125	**199 295 236**	2.125
50	40	1 ½	10	1910	**199 295 227**	2.609	**199 295 237**	2.609
63	50	2	10	3100	**199 295 228**	4.009	**199 295 238**	4.009

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	131	128	73	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	141	128	73	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	165	128	86	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	182	128	99	50	25	74
40	PPA15	84	192	45	84	108	45	88	9	209	165	120	60	45	94
50	PPA15	97	192	51	84	108	45	88	9	242	165	137	69	45	94
63	PPA40	124	237	65	106	131	56	111	9	302	184	179	89	45	120

d (mm)	L7 (mm)	M	closest inch (inch)
16	32	6	⅜
20	32	6	½
25	32	6	¾
32	32	6	1
40	38	8	1 ¼
50	38	8	1 ½
63	47	8	2



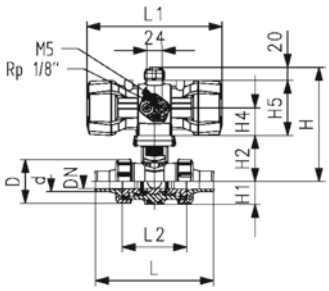
3-Way ball valve type 543 Pro P PVC-U
Horizontal/T-port
FC (Fail safe to close)
Without manual override
With solvent cement spigots metric

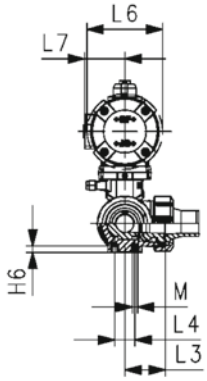
Model:

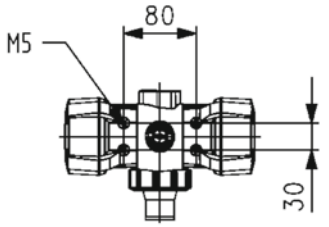
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

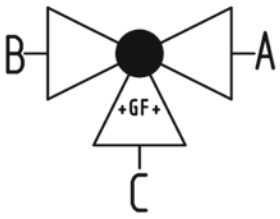
Option:

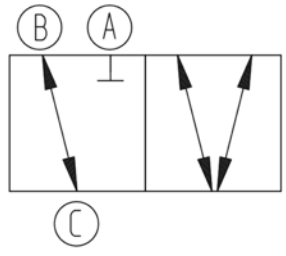
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve









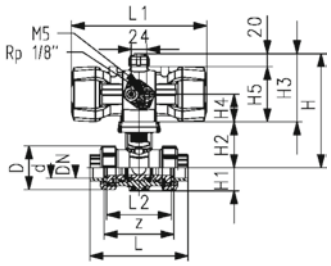


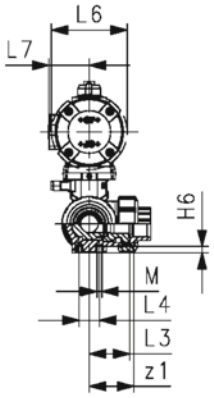
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	**199 295 042**	1.120	**199 295 052**	1.120
20	15	½	10	200	**199 295 043**	1.129	**199 295 053**	1.129
25	20	¾	10	470	**199 295 044**	1.262	**199 295 054**	1.262
32	25	1	10	793	**199 295 045**	1.456	**199 295 055**	1.456
40	32	1 ¼	10	1290	**199 295 046**	2.549	**199 295 056**	2.549
50	40	1 ½	10	1910	**199 295 047**	3.033	**199 295 057**	3.033
63	50	2	10	3100	**199 295 048**	4.433	**199 295 058**	4.433

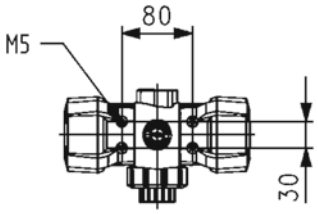
d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	131	159	73	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	141	159	73	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	165	211	86	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	182	211	99	50	25	94
40	PPA40	84	215	45	84	131	56	111	9	209	246	120	60	45	120
50	PPA40	97	215	51	84	131	56	111	9	242	246	137	69	45	120
63	PPA40	124	237	65	106	131	56	111	9	302	246	179	89	45	120

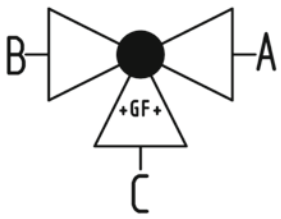
d (mm)	L7 (mm)	M	closest inch (inch)
16	32	6	⅜
20	32	6	½
25	38	6	¾
32	38	6	1
40	47	8	1 ¼
50	47	8	1 ½
63	47	8	2

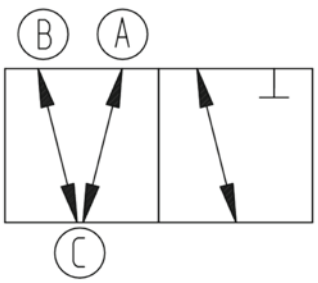












3-Way ball valve type 543 Pro P PVC-U
Horizontal/T-port
FC (Fail safe to close)
Without manual override
With solvent cement sockets metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	**199 295 062**	1.114	**199 295 072**	1.114
20	15	½	10	200	**199 295 063**	1.120	**199 295 073**	1.120
25	20	¾	10	470	**199 295 064**	1.247	**199 295 074**	1.247
32	25	1	10	793	**199 295 065**	1.404	**199 295 075**	1.432
40	32	1 ¼	10	1290	**199 295 066**	2.481	**199 295 076**	2.528
50	40	1 ½	10	1910	**199 295 067**	2.970	**199 295 077**	2.970
63	50	2	10	3100	**199 295 068**	4.263	**199 295 078**	4.314

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	109	159	73	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	112	159	73	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	131	211	86	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	151	211	99	50	25	94
40	PPA40	84	215	45	84	131	56	111	9	181	246	120	60	45	120
50	PPA40	97	215	51	84	131	56	111	9	205	246	137	69	45	120
63	PPA40	124	237	65	106	131	56	111	9	261	246	179	89	45	120

d (mm)	L7 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	32	6	81	40	⅜
20	32	6	81	40	½
25	38	6	94	47	¾
32	38	6	107	54	1
40	47	8	130	65	1 ¼
50	47	8	143	72	1 ½
63	47	8	185	92	2



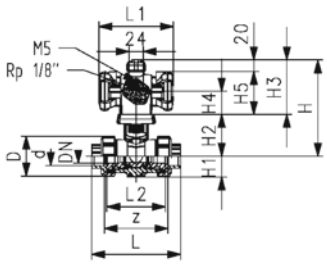
3-Way ball valve type 543 Pro P PVC-U
Horizontal/L-port
DA (Double acting)
Without manual override
With solvent cement sockets metric

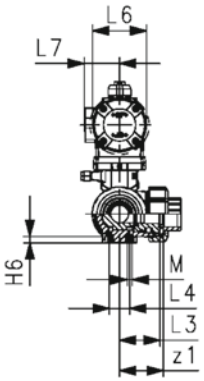
Model:

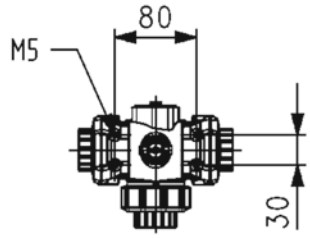
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

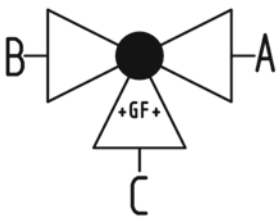
Option:

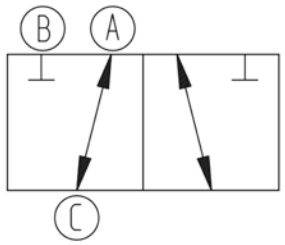
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve









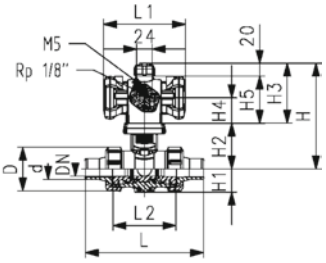


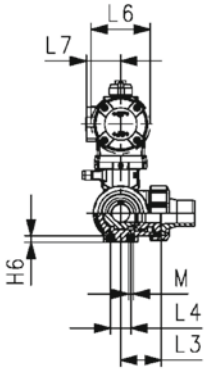
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	**199 295 202**	0.925	**199 295 212**	0.925
20	15	½	10	75	**199 295 203**	0.931	**199 295 213**	0.885
25	20	¾	10	150	**199 295 204**	1.059	**199 295 214**	1.059
32	25	1	10	280	**199 295 205**	1.183	**199 295 215**	1.249
40	32	1 ¼	10	480	**199 295 206**	2.115	**199 295 216**	2.115
50	40	1 ½	10	620	**199 295 207**	2.452	**199 295 217**	2.463
63	50	2	10	1230	**199 295 208**	3.806	**199 295 218**	3.828

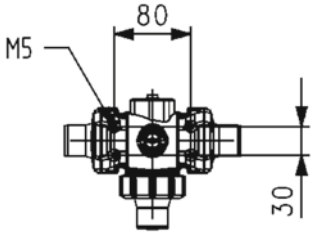
d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	40	75	8	109	128	73	36	25	74
20	PPA08	50	157	28	62	95	40	75	8	112	128	73	36	25	74
25	PPA08	58	166	32	71	95	40	75	8	131	128	86	43	25	74
32	PPA08	68	166	36	71	95	40	75	8	151	128	99	50	25	74
40	PPA15	84	192	45	84	108	51	88	9	181	165	120	60	45	94
50	PPA15	97	192	51	84	108	51	88	9	205	165	137	69	45	94
63	PPA40	124	237	65	106	131	51	111	9	261	184	179	89	45	120

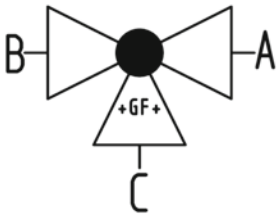
d (mm)	L7 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	32	6	81	40	⅜
20	32	6	81	40	½
25	32	6	94	47	¾
32	32	6	107	54	1
40	38	8	130	65	1 ¼
50	38	8	143	72	1 ½
63	47	8	185	92	2

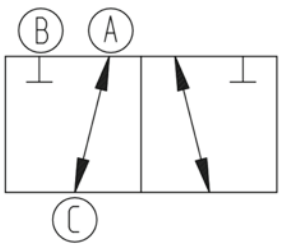












3-Way ball valve type 543 Pro P PVC-U
Horizontal/L-port
DA (Double acting)
Without manual override
With solvent cement spigots metric

Model:

- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	**199 295 182**	0.931	**199 295 192**	0.931
20	15	½	10	75	**199 295 183**	0.940	**199 295 193**	0.940
25	20	¾	10	150	**199 295 184**	1.074	**199 295 194**	1.074
32	25	1	10	280	**199 295 185**	1.273	**199 295 195**	1.273
40	32	1 ¼	10	480	**199 295 186**	2.136	**199 295 196**	2.136
50	40	1 ½	10	620	**199 295 187**	2.630	**199 295 197**	2.630
63	50	2	10	1230	**199 295 188**	4.054	**199 295 198**	4.054

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	131	128	73	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	141	128	73	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	165	128	86	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	182	128	99	50	25	74
40	PPA15	84	192	45	84	108	45	88	9	209	165	120	60	45	94
50	PPA15	97	237	51	106	131	56	111	9	242	184	137	69	45	120
63	PPA40	124	192	65	84	108	45	88	9	302	165	179	89	45	94

d (mm)	L7 (mm)	M	closest inch (inch)
16	32	6	⅜
20	32	6	½
25	32	6	¾
32	32	6	1
40	38	8	1 ¼
50	47	8	1 ½
63	38	8	2



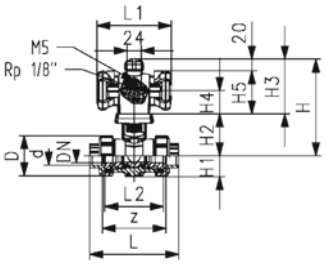
3-Way ball valve type 543 Pro P PVC-U
Horizontal/T-port
DA (Double acting)
Without manual override
With solvent cement sockets metric

Model:

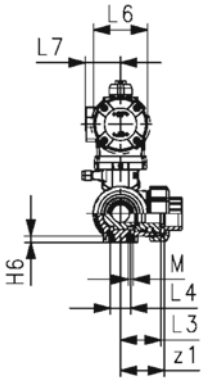
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

Option:

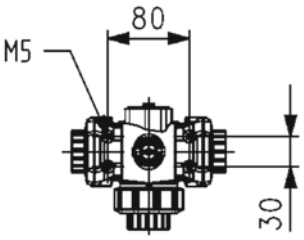
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve



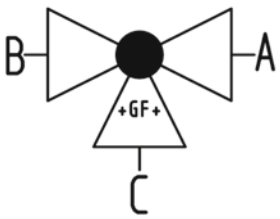
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	**199 295 242**	0.924	**199 295 252**	0.924
3	15	½	10	200	**199 295 243**	0.930	**199 295 253**	0.930
25	20	¾	10	470	**199 295 244**	1.057	**199 295 254**	1.057
32	25	1	10	793	**199 295 245**	1.242	**199 295 255**	1.242
40	32	1 ¼	10	1290	**199 295 246**	2.104	**199 295 256**	2.104
50	40	1 ½	10	1910	**199 295 247**	2.546	**199 295 257**	2.546
63	50	2	10	3100	**199 295 248**	3.883	**199 295 258**	3.883

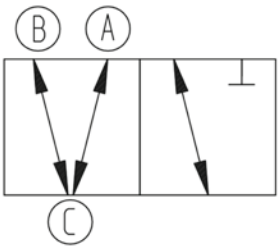


d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	109	128	73	36	25	74
3	PPA08	50	157	28	62	95	41	75	8	112	128	73	36	25	74
25	PPA08	58	166	32	71	95	41	75	8	131	128	86	43	25	74
32	PPA08	68	166	36	71	95	41	75	8	151	128	99	50	25	74
40	PPA15	84	192	45	84	108	45	88	9	181	165	120	60	45	94
50	PPA15	97	192	51	84	108	45	88	9	205	165	137	69	45	94
63	PPA40	124	237	65	106	131	56	111	9	261	184	179	89	45	120



d (mm)	L7 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	32	6	81	40	⅜
3	32	6	81	40	½
25	32	6	94	47	¾
32	32	6	107	54	1
40	38	8	130	65	1 ¼
50	38	8	143	72	1 ½
63	47	8	185	92	2







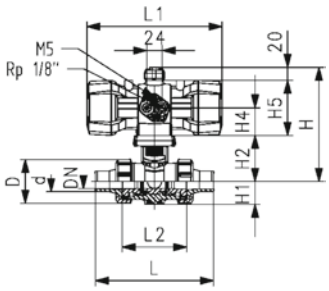
3-Way ball valve type 543 Pro P PVC-U
Horizontal/L-port
FC (Fail safe to close)
Without manual override
With solvent cement spigots metric

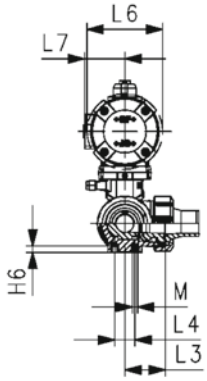
Model:

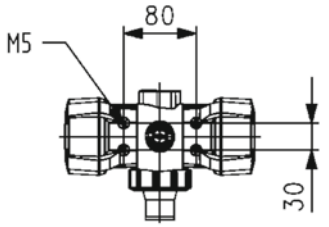
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90° <) 1-2s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator
- Z-dimension, valve end and union nut are compatible with types 285 – 288 and 543 (1st Generation)

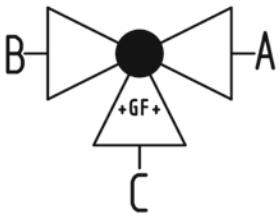
Option:

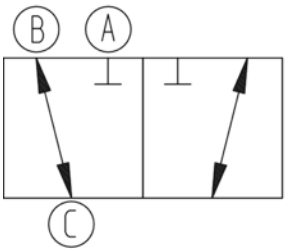
- Position feedback sensor, incl. LED feedback (DN10-50) - PNP, NPN and NAMUR
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve











d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	**199 295 002**	1.121	**199 295 012**	1.121
20	15	½	10	75	**199 295 003**	1.130	**199 295 013**	1.130
25	20	¾	10	150	**199 295 004**	1.241	**199 295 014**	1.264
32	25	1	10	280	**199 295 005**	1.463	**199 295 015**	1.436
40	32	1 ¼	10	480	**199 295 006**	2.560	**199 295 016**	2.560
50	40	1 ½	10	620	**199 295 007**	3.054	**199 295 017**	3.054
63	50	2	10	1230	**199 295 008**	4.478	**199 295 018**	4.451

d (mm)	Actuator	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L6 (mm)
16	PPA08	50	157	28	62	95	41	75	8	131	159	73	36	25	74
20	PPA08	50	157	28	62	95	41	75	8	141	159	73	36	25	74
25	PPA15	58	179	32	71	108	45	88	8	165	211	86	43	25	94
32	PPA15	68	179	36	71	108	45	88	8	182	211	99	50	25	94
40	PPA40	84	215	45	84	131	56	111	9	209	246	120	60	45	120
50	PPA40	97	215	51	84	131	56	111	9	242	246	137	69	45	120
63	PPA40	124	237	65	106	131	56	111	9	302	246	179	89	45	120

d (mm)	L7 (mm)	M	closest inch (inch)
16	32	6	⅜
20	32	6	½
25	38	6	¾
32	38	6	1
40	47	8	1 ¼
50	47	8	1 ½
63	47	8	2

3-Way ball valves electric type 167



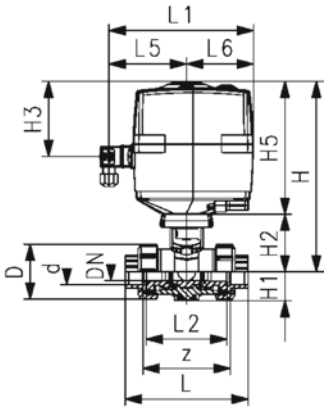
3-Way ball valve type 543 Pro PVC-U
Horizontal/L-port 100-230V
With manual emergency override
With solvent cement sockets metric
With electric actuator EA25

Model:

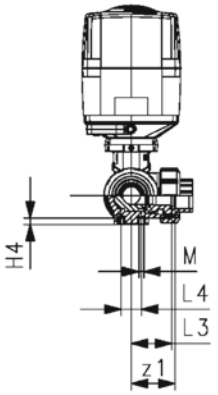
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

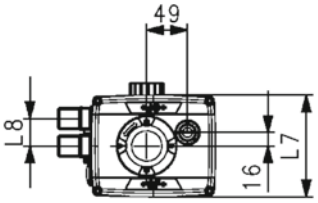
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board



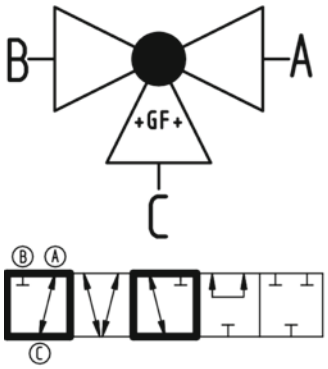
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	EA25	**199 167 022**	2.122	**199 167 032**	2.122
20	15	½	10	75	EA25	**199 167 023**	2.540	**199 167 033**	2.128
25	20	¾	10	150	EA25	**199 167 024**	2.256	**199 167 034**	2.256
32	25	1	10	280	EA25	**199 167 025**	2.842	**199 167 035**	2.446
40	32	1 ¼	10	480	EA25	**199 167 026**	3.234	**199 167 036**	2.870
50	40	1 ½	10	620	EA25	**199 167 027**	3.683	**199 167 037**	3.322
63	50	2	10	1230	EA25	**199 167 028**	5.043	**199 167 038**	4.683



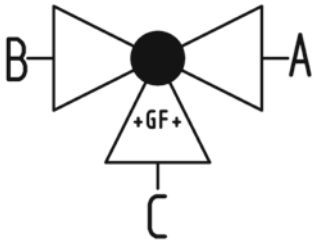
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122



d (mm)	L8 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	33	6	81	40	⅜
20	33	6	81	40	½
25	33	6	94	47	¾
32	33	6	107	54	1
40	33	8	130	65	1 ¼
50	33	8	143	72	1 ½
63	33	8	185	92	2









3-Way ball valve type 167 PVC-U
Horizontal/L-port 100-230V
With manual emergency override
With solvent cement spigots metric

Model:

- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

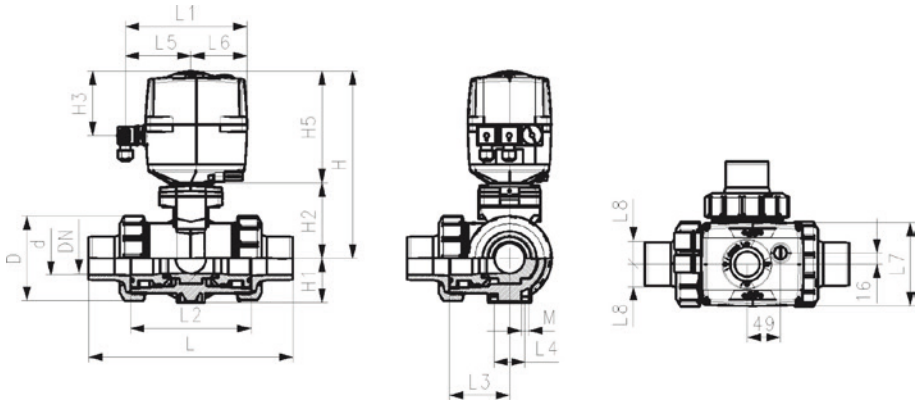
Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

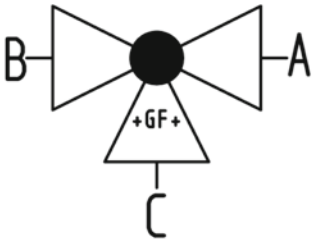
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	EA25	**199167002_old**	2.128	**199167012_old**	2.128
20	15	½	10	75	EA25	**199167003_old**	2.137	**199167013_old**	2.137
25	20	¾	10	150	EA25	**199167004_old**	2.271	**199167014_old**	2.271
32	25	1	10	280	EA25	**199167005_old**	2.470	**199167015_old**	2.470
40	32	1 ¼	10	480	EA25	**199167006_old**	2.891	**199167016_old**	2.891
50	40	1 ½	10	620	EA25	**199167007_old**	3.749	**199167017_old**	3.385
63	50	2	10	1230	EA25	**199167008_old**	4.809	**199167018_old**	4.809

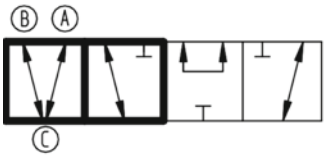
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
16	50	231	28	64	94	167	8	131	180	194	36	25	97	83	122
20	50	231	28	64	94	167	8	141	180	194	36	25	97	83	122
25	58	240	32	73	94	167	8	165	180	194	43	25	97	83	122
32	68	240	36	73	94	167	8	182	180	194	50	25	97	83	122
40	84	251	45	84	94	167	9	209	180	194	60	45	97	83	122
50	97	251	51	84	94	167	9	242	180	194	69	45	97	83	122
63	124	273	65	106	94	167	9	302	180	194	89	45	97	83	122

d (mm)	L8 (mm)	M	closest inch (inch)
16	33	6	⅜
20	33	6	½
25	33	6	¾
32	33	6	1
40	33	8	1 ¼
50	33	8	1 ½
63	33	8	2









3-Way ball valve type 167 PVC-U
Horizontal/T-port 100-230V
With manual emergency override
With solvent cement sockets metric

Model:

- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

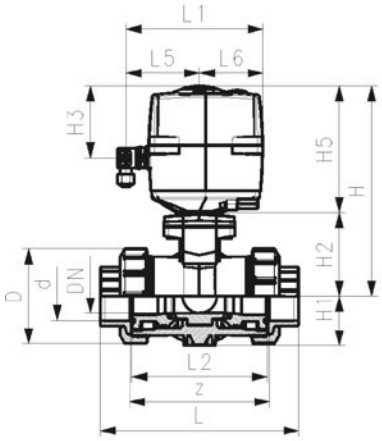
Option:

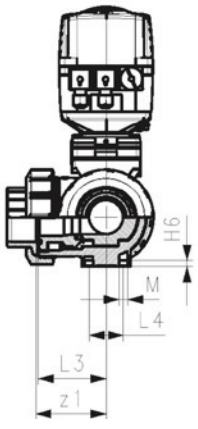
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

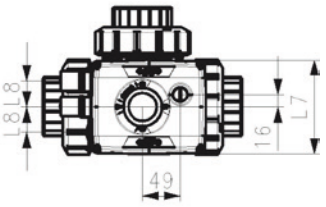
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	EA25	**199167062_old**	2.121	**199167072_old**	2.121
20	15	½	10	200	EA25	**199167063_old**	2.127	**199167073_old**	2.127
25	20	¾	10	470	EA25	**199167064_old**	2.254	**199167074_old**	2.254
32	25	1	10	793	EA25	**199167065_old**	2.834	**199167075_old**	2.846
40	32	1 ¼	10	1290	EA25	**199167066_old**	3.217	**199167076_old**	2.859
50	40	1 ½	10	1910	EA25	**199167067_old**	3.674	**199167077_old**	3.301
63	50	2	10	3100	EA25	**199167068_old**	4.638	**199167078_old**	4.638

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

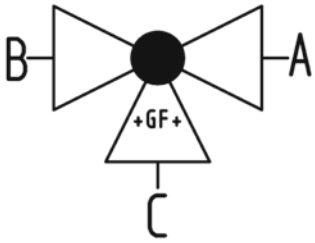
d (mm)	L8 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	33	6	81	40	⅜
20	33	6	81	40	½
25	33	6	94	47	¾
32	33	6	107	54	1
40	33	8	130	65	1 ¼
50	33	8	143	72	1 ½
63	33	8	185	92	2

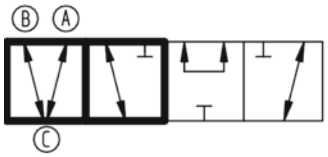












3-Way ball valve type 167 PVC-U
Horizontal/L-port 24V
With manual emergency override
With solvent cement sockets metric

Model:

- Voltage 24V AC/DC
- Factory set control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

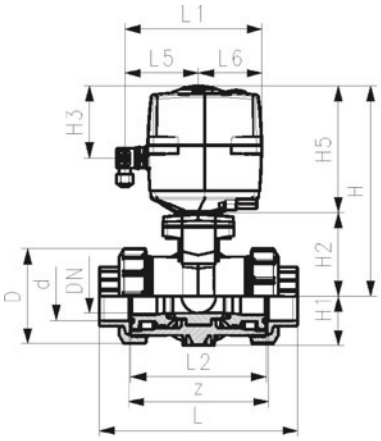
Option:

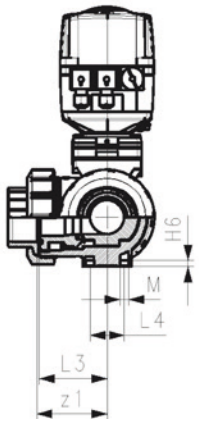
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

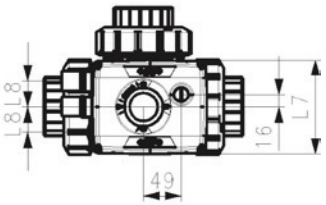
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	EA25	**199167202_old**	2.122	**199167212_old**	2.122
20	15	½	10	200	EA25	**199167203_old**	2.128	**199167213_old**	2.128
25	20	¾	10	470	EA25	**199167204_old**	2.256	**199167214_old**	2.256
32	25	1	10	793	EA25	**199167205_old**	2.446	**199167215_old**	2.446
40	32	1 ¼	10	1290	EA25	**199167206_old**	2.870	**199167216_old**	2.870
50	40	1 ½	10	1910	EA25	**199167207_old**	3.698	**199167217_old**	3.322
63	50	2	10	3100	EA25	**199167208_old**	5.018	**199167218_old**	4.683

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

d (mm)	L8 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	33	6	81	40	⅜
20	33	6	81	40	½
25	33	6	94	47	¾
32	33	6	107	54	1
40	33	8	130	65	1 ¼
50	33	8	143	72	1 ½
63	33	8	185	92	2









3-Way ball valve type 167 PVC-U
Horizontal/T-port 24V
With manual emergency override
With solvent cement sockets metric

Model:

- Voltage 24V AC/DC
- Factory set control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

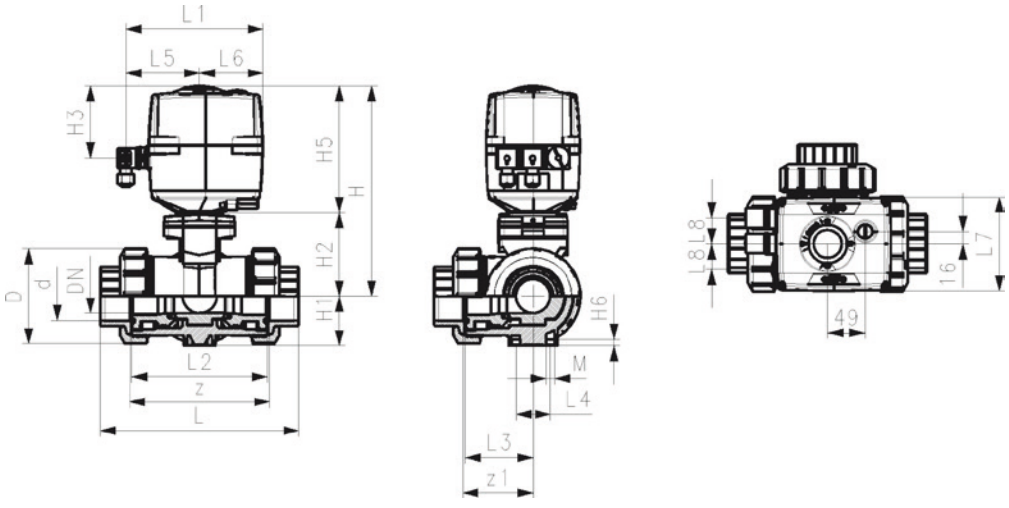
Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	EA25	**199167242_old**	2.121	**199167252_old**	2.121
20	15	½	10	200	EA25	**199167243_old**	2.127	**199167253_old**	2.127
25	20	¾	10	470	EA25	**199167244_old**	2.254	**199167254_old**	2.254
32	25	1	10	793	EA25	**199167245_old**	2.817	**199167255_old**	2.439
40	32	1 ¼	10	1290	EA25	**199167246_old**	3.197	**199167256_old**	2.859
50	40	1 ½	10	1910	EA25	**199167247_old**	3.654	**199167257_old**	3.301
63	50	2	10	3100	EA25	**199167248_old**	4.972	**199167258_old**	4.638

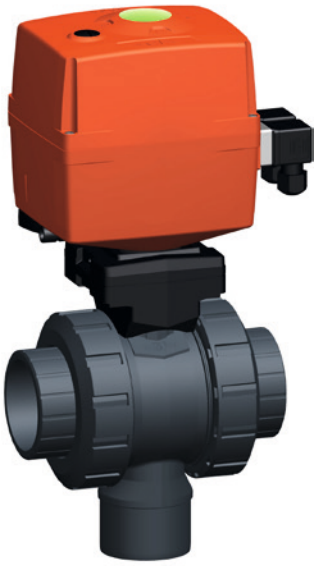
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
16	50	231	28	64	94	167	8	109	180	73	36	25	97	83	122
20	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
25	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
32	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
40	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
50	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
63	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

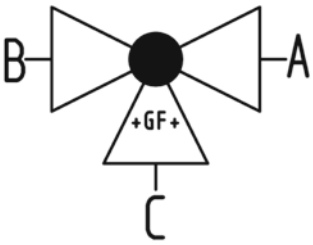
d (mm)	L8 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	33	6	81	40	⅜
20	33	6	81	40	½
25	33	6	94	47	¾
32	33	6	107	54	1
40	33	8	130	65	1 ¼
50	33	8	143	72	1 ½
63	33	8	185	92	2

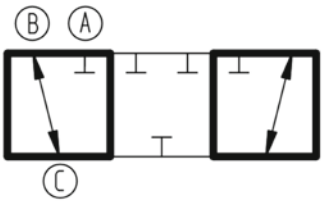


+GF+

3-Way ball valves electric type 170







3-Way ball valve type 543 PRO PVC-U
Vertical/L-port 100-230V
With manual emergency override
With solvent cement sockets metric

Model:

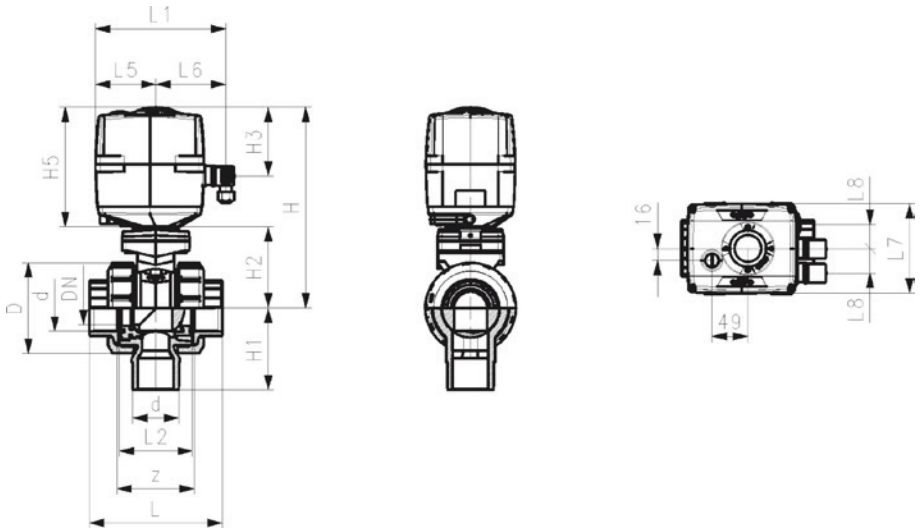
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

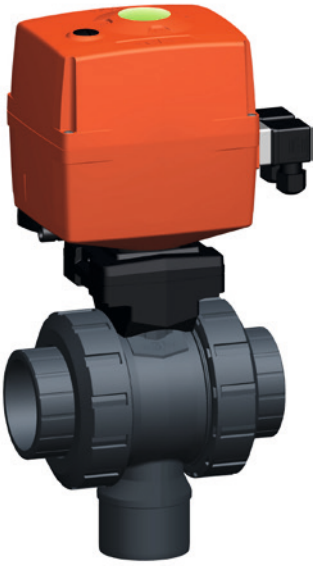
Option:

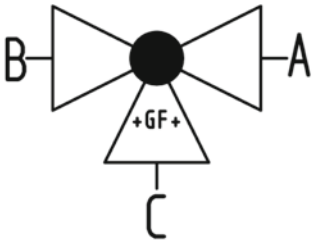
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

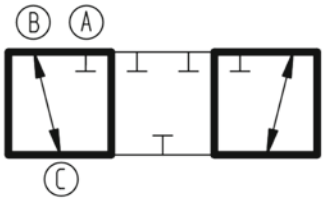
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	49	EA25	**199 170 242**	2.039	**199 170 252**	2.039
20	15	½	10	77	EA25	**199 170 243**	2.043	**199 170 253**	2.043
25	20	¾	10	146	EA25	**199 170 244**	2.150	**199 170 254**	2.150
32	25	1	10	260	EA25	**199 170 245**	2.267	**199 170 255**	2.267
40	32	1 ¼	10	437	EA25	**199 170 246**	2.554	**199 170 256**	2.554
50	40	1 ½	10	667	EA25	**199 170 247**	3.203	**199 170 257**	2.818
63	50	2	10	1293	EA25	**199 170 248**	3.977	**199 170 258**	3.595

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)	closest inch (inch)
16	50	231	62	64	94	167	92	180	56	97	83	122	33	64	⅜
20	50	231	62	64	94	167	95	180	56	97	83	122	33	64	½
25	58	240	72	73	94	167	111	180	66	97	83	122	33	74	¾
32	68	240	77	73	94	167	123	180	71	97	83	122	33	79	1
40	84	251	87	84	94	167	146	180	85	97	83	122	33	95	1 ¼
50	97	251	97	84	94	167	157	180	89	97	83	122	33	95	1 ½
63	124	273	112	106	94	167	183	180	101	97	83	122	33	107	2









3-Way ball valve type 543 PRO PVC-U
Vertical/L-port 24V
With manual emergency override
With solvent cement sockets metric

Model:

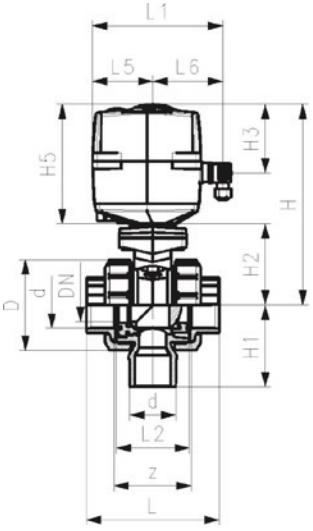
- Voltage 24V AC/DC
- Factory set control range 90°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

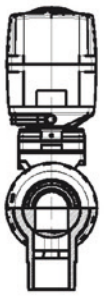
Option:

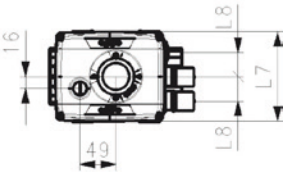
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	49	EA25	**199 170 262**	2.039	**199 170 272**	2.039
20	15	½	10	77	EA25	**199 170 263**	2.043	**199 170 273**	2.043
25	20	¾	10	146	EA25	**199 170 264**	2.546	**199 170 274**	2.150
32	25	1	10	260	EA25	**199 170 265**	2.267	**199 170 275**	2.267
40	32	1 ¼	10	437	EA25	**199 170 266**	2.922	**199 170 276**	2.554
50	40	1 ½	10	667	EA25	**199 170 267**	2.818	**199 170 277**	2.818
63	50	2	10	1293	EA25	**199 170 268**	3.595	**199 170 278**	3.595

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)	closest inch (inch)
16	50	231	62	64	94	167	92	180	56	97	83	122	33	64	⅜
20	50	231	62	64	94	167	95	180	56	97	83	122	33	64	½
25	58	240	72	73	94	167	111	180	66	97	83	122	33	74	¾
32	68	240	77	73	94	167	123	180	71	97	83	122	33	79	1
40	84	251	87	84	94	167	146	180	85	97	83	122	33	95	1 ¼
50	97	251	97	84	94	167	157	180	89	97	83	122	33	95	1 ½
63	124	273	112	106	94	167	183	180	101	97	83	122	33	107	2







Metering ball valves type 523 Pro



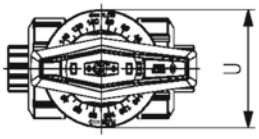
Metering ball valve type 523 Pro PVC-U
With solvent cement sockets metric

Model:

- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

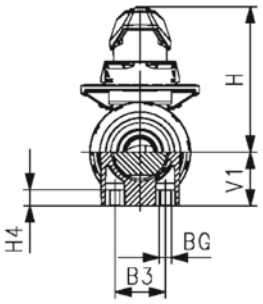
Option:

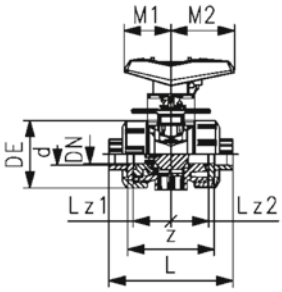
- Other materials on demand



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	11	**161 523 401**	0.170	**161 523 411**	0.170
20	15	10	20	**161 523 402**	0.169	**161 523 412**	0.170

d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	BG	B3 (mm)	H4 (mm)	U (mm)	z (mm)
16	35	47	28	28	92	27	72	99	M6	25	12	59	64
20	35	47	28	28	95	27	72	99	M6	25	12	59	64







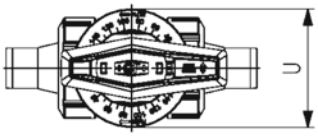
Metering ball valve type 523 Pro PVC-U
With solvent cement spigots metric

Model:

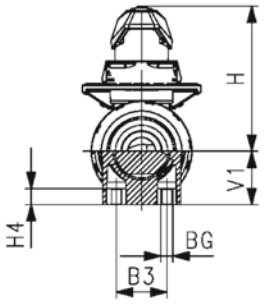
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

Option:

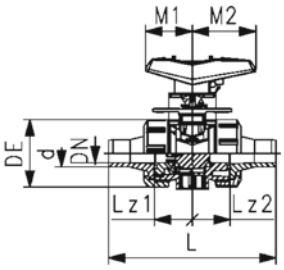
- Other materials on demand



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	11	**161 523 441**	0.170	**161 523 451**	0.170
20	15	10	20	**161 523 442**	0.170	**161 523 452**	0.170



d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)
16	35	47	28	28	114	27	72	99	50	M6	25	12	59
20	35	47	28	28	124	27	72	99	50	M6	25	12	59





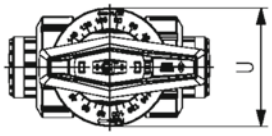
Metering ball valve type 523 Pro PVC-U
With threaded sockets Rp

Model:

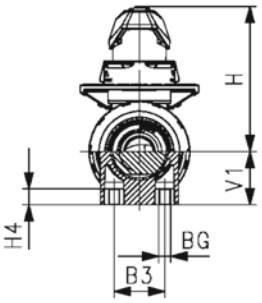
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

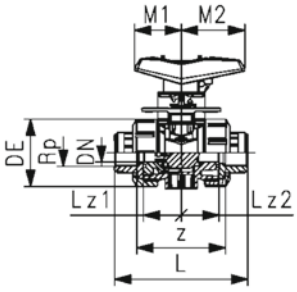
Option:

- Other materials on demand



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	11	**161 523 421**	0.170	**161 523 431**	0.170
20	15	½	10	20	**161 523 422**	0.170	**161 523 432**	0.170



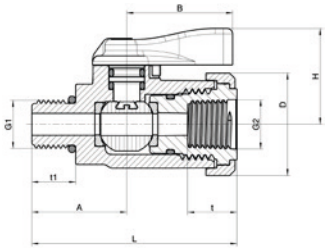


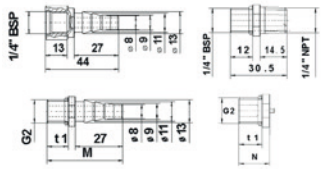
d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)	z (mm)
16	35	47	28	28	95	27	72	99	50	M6	25	12	59	73
20	35	47	28	28	100	27	72	99	50	M6	25	12	59	71

Laboratory ball valves type 522









Laboratory Ball Valve Type 522 PVC-U
With female thread-male thread

Model:

- Disconnection one end only
- Ball seal PTFE

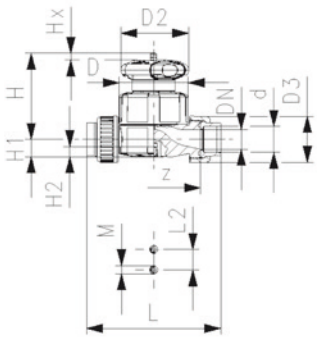
Following connections/parts are included for every valve:
Hose Nozzle
Blind plug
Double nipple
Clip tie
Locking and metering ring
2 O-rings

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code
10	6	⅛	10	**161 522 060**	0.050	**161 522 070**
10	6	⅛	10	**161 522 080**	0.050	
10	6	⅛	10	**161 522 160**	0.050	**161 522 170**

d (mm)	G1 (mm)	G2 (mm)	A (mm)	B (mm)	D (mm)	H (mm)	L (mm)	t (mm)	t1 (mm)
10	1/4" BSP	1/4" BSP	26.0	28.2	28	25.5	56.0	13.5	12
10	3/8" BSP	1/4" BSP	26.0	28.2	28	25.5	56.0	13.5	12
10	1/4" NPT	1/4" NPT	28.5	29.0	28	26.5	58.5	13.5	14.5

Diaphragm valves





Diaphragm valve type 514 PVC-U
With solvent cement sockets metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

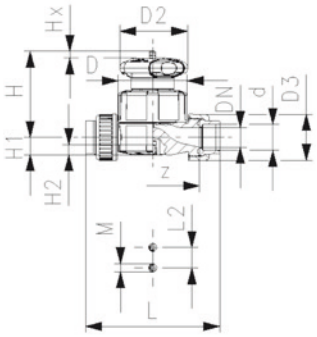
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)
16	10	⅜	10	125	**161 514 001**	0.324	**161 514 011**	0.319
20	15	½	10	125	**161 514 002**	0.328	**161 514 012**	0.323
25	20	¾	10	271	**161 514 003**	0.492	**161 514 013**	0.472
32	25	1	10	481	**161 514 004**	0.721	**161 514 014**	0.704
40	32	1 ¼	10	759	**161 514 005**	1.070	**161 514 015**	0.973
50	40	1 ½	10	1263	**161 514 006**	1.643	**161 514 016**	1.618
63	50	2	10	1728	**161 514 007**	2.510	**161 514 017**	2.484

d (mm)	PTFE/ EPDM* Code	Weight (kg)	FKM Code	Weight (kg)	PTFE/FKM* Code	Weight (kg)
16	**161 514 031**	0.335	**161 514 061**	0.328	**800 047 300**	0.331
20	**161 514 032**	0.339	**161 514 062**	0.332	**800 047 301**	0.335
25	**161 514 033**	0.506	**161 514 063**	0.499	**800 047 303**	0.499
32	**161 514 034**	0.748	**161 514 064**	0.732	**800 047 304**	0.731
40	**161 514 035**	1.105	**161 514 065**	1.087	**800 047 306**	1.084
50	**161 514 036**	1.679	**161 514 066**	1.669	**800 047 308**	1.662
63	**161 514 037**	2.548	**161 514 067**	2.555	**800 047 309**	2.547

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
16	65	65	43	73	14	12	170	25	M6	142	7	⅜
20	65	65	43	73	14	12	128	25	M6	96	7	½
25	80	65	51	81	18	12	152	25	M6	114	10	¾
32	88	87	58	107	22	12	166	25	M6	122	13	1
40	101	87	72	115	26	15	192	45	M8	140	15	1 ¼
50	117	135	83	148	32	15	222	45	M8	160	19	1 ½
63	144	135	100	166	39	15	266	45	M8	190	25	2





Diaphragm valve type 514 PVC-U
With solvent cement sockets metric PN16

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Not recommended for oxidizing acids
- For easy installation and removal
- Short overall length
- **For water use only**

Option:

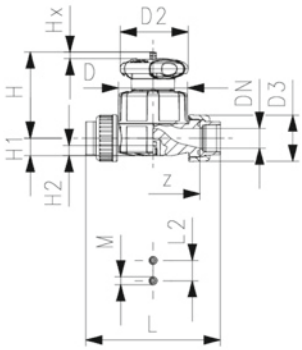
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	16	125	**800 047 166**	0.354	**800 047 160**	0.370
25	20	16	271	**800 047 167**	0.510	**800 047 161**	0.544
32	25	16	481	**800 047 168**	0.755	**800 047 162**	0.799
40	32	16	759	**800 047 169**	1.030	**800 047 163**	1.162
50	40	16	1263	**800 047 170**	1.700	**800 047 164**	1.761
63	50	16	1728	**800 047 171**	2.612	**800 047 165**	2.676

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	43	73	14	12	128	25	M6	96	7	½
25	80	65	51	81	18	12	152	25	M6	114	10	¾
32	88	87	58	107	22	12	166	25	M6	122	13	1
40	101	87	72	115	26	15	192	45	M8	140	15	1 ¼
50	117	135	83	148	32	15	222	45	M8	160	19	1 ½
63	144	135	100	166	39	15	266	45	M8	190	25	2





Diaphragm valve type 514 PVC-U
With threaded sockets Rp

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

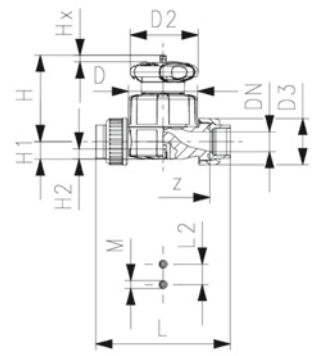
Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

* O-Ring material: FKM

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)
20	15	Rp	½	10	125	**161 514 402**	0.400	**161 514 412**	0.298
25	20	Rp	¾	10	271	**161 514 403**	0.523	**161 514 413**	0.426
32	25	Rp	1	10	481	**161 514 404**	0.678	**161 514 414**	0.679
40	32	Rp	1 ¼	10	759	**161 514 405**	1.429	**161 514 415**	0.957
50	40	Rp	1 ½	10	1263	**161 514 406**	2.528	**161 514 416**	1.654
63	50	Rp	2	10	1728	**161 514 407**	3.449	**161 514 417**	3.449

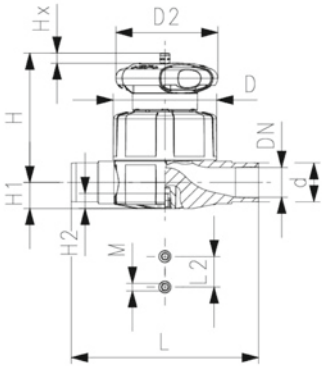
table continued on the next page



PTFE/ EPDM* Code	Weight (kg)	FKM Code	Weight (kg)
161 514 432	0.410	**161 514 462**	0.400
161 514 433	0.534	**161 514 463**	0.523
161 514 434	0.693	**161 514 464**	1.163
161 514 435	1.449	**161 514 465**	1.429
161 514 436	2.558	**161 514 466**	2.528
161 514 437	3.477	**161 514 467**	3.449

D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
65	65	43	73	14	12	128	25	M6	96	7
80	65	51	81	18	12	152	25	M6	114	10
88	87	58	107	22	12	166	25	M6	122	13
101	87	72	115	26	15	192	45	M8	140	15
117	135	83	148	32	15	222	45	M8	160	19
144	135	100	166	39	15	266	45	M8	190	25





Diaphragm valve type 515 PVC-U
With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)
20	15	½	10	125	**161 515 002**	0.335	**161 515 012**	0.240
25	20	¾	10	271	**161 515 003**	0.445	**161 515 013**	0.445
32	25	1	10	481	**161 515 004**	0.565	**161 515 014**	0.568
40	32	1 ¼	10	759	**161 515 005**	1.237	**161 515 015**	0.775
50	40	1 ½	10	1263	**161 515 006**	1.363	**161 515 016**	1.364
63	50	2	10	1728	**161 515 007**	2.963	**161 515 017**	2.248

d (mm)	PTFE/ EPDM* Code	Weight (kg)	FKM Code	Weight (kg)
20	**161 515 032**	0.238	**161 515 062**	0.243
25	**161 515 033**	0.456	**161 515 063**	0.445
32	**161 515 034**	0.575	**161 515 064**	1.032
40	**161 515 035**	1.257	**161 515 065**	0.785
50	**161 515 036**	2.292	**161 515 066**	2.262
63	**161 515 037**	2.097	**161 515 067**	2.963

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	7	½
25	80	65	81	18	12	144	25	M6	10	¾
32	88	87	107	22	12	154	25	M6	13	1
40	101	87	115	26	15	174	45	M8	15	1 ¼
50	117	135	148	32	15	194	45	M8	19	1 ½
63	144	135	166	39	15	224	45	M8	25	2



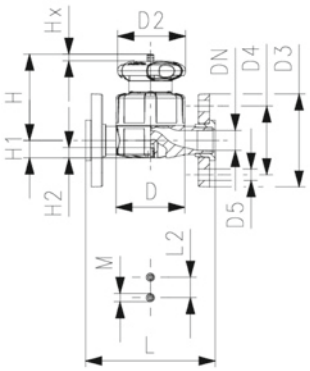
Diaphragm valve type 517 PVC-U
With backing flanges PVC-U metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

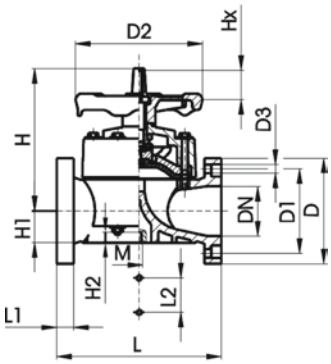


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)
20	15	½	10	125	**161 517 002**	0.493	**161 517 012**	0.395
25	20	¾	10	271	**161 517 003**	0.661	**161 517 013**	0.558
32	25	1	10	481	**161 517 004**	1.344	**161 517 014**	0.887
40	32	1 ¼	10	759	**161 517 005**	1.352	**161 517 015**	1.238
50	40	1 ½	10	1263	**161 517 006**	2.868	**161 517 016**	1.962
63	50	2	10	1728	**161 517 007**	3.789	**161 517 017**	2.893

d (mm)	PTFE/EPDM* Code	Weight (kg)	FKM Code	Weight (kg)
20	**161 517 032**	0.503	**161 517 062**	0.493
25	**161 517 033**	0.672	**161 517 063**	0.661
32	**161 517 034**	1.364	**161 517 064**	0.895
40	**161 517 035**	1.247	**161 517 065**	1.352
50	**161 517 036**	1.992	**161 517 066**	2.868
63	**161 517 037**	2.939	**161 517 067**	2.943

d (mm)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	65	65	95	65	14	73	14	12	130	25	M6	7	½
25	80	65	105	75	14	81	18	12	150	25	M6	10	¾
32	88	87	115	85	14	107	22	12	160	25	M6	13	1
40	101	87	140	100	18	115	26	15	180	45	M8	15	1 ¼
50	117	135	150	110	18	148	32	15	200	45	M8	19	1 ½
63	144	135	165	125	18	166	39	15	230	45	M8	25	2





DN 80-100

Diaphragm valve type 317 PVC-U
With flanges PVC-U metric

Model:

- Flat sealing faces
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Handwheel lockable DN65 (basic version not lockable)

*** DN80, DN100 and DN150 fixed flanges metric and inch ANSI B16.5**

	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)
	75	65	2 ½	10	992
*	90	80	3	10	1700
*	110	100	4	6	2700
*	160	150	6	6	6033

	d (mm)	NBR Code	EPDM Code	PTFE with EPDM supp. diaphragm Code	FKM Code	Weight (kg)
	75	**161 317 508**	**161 317 523**	**161 317 538**	**161 317 568**	5.090
*	90	**161 317 009**	**161 317 024**	**161 317 039**	**161 317 069**	9.700
*	110	**161 317 010**	**161 317 025**	**161 317 040**	**161 317 070**	13.600
*	160	**161 317 012**	**161 317 027**	**161 317 042**	**161 317 072**	27.000

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
	75	185	145	152	18	201	46	15	290		70		M8	30	4
*	90	200	160	270	18	265	57	23	310	35	120		M12	40	8
*	110	225	180	270	18	304	69	23	350	35	120		M12	50	8
*	160	285	240	400	23	437	108	23	480	26	100	200	M12	70	8

Copiable
Configurator GF Diaphragm Valve

Valve body type
A20 Type 514 - True Union Design
A21 Type 515 - Spigots
A22 Type 517 - Flanges

Material
B01 PVC-U
B02 PVC-C
B03 ABS

Dimension
C05 DN 10 3/8"
C06 DN 15 1/2"
C07 DN 20 3/4"
C08 DN 25 1"
C09 DN 32 1 1/4"
C10 DN 40 1 1/2"
C11 DN 50 2"

Version
D11 standard
D05 silicone free / oil free

Diaphragm
E01 EPDM
E02 FPM
E11 NBR
E12 PTFE/EPDM
E04 PTFE/FPM

Connecting parts

H01	PVC-U Cemented socket metric
H02	PVC-U Cemented socket JIS
H03	PVC-U Cemented socket ASTM
H04	PVC-U Cemented socket Zoll BS
H05	PVC-U Cemented spigot metric
H06	PVC-U Threaded socket Rp (ISO)
H08	PVC-U Threaded socket Rc (JIS)
H09	PVC-U Threaded socket NPT (ASTM)
H11	PVC-C Cemented socket metric
H13	PVC-C Cemented socket Zoll ASTM
H14	PVC-C Cemented spigot metric
H20	ABS Cemented socket metric
H21	ABS Cemented socket Zoll BS
H24	ABS Cemented spigot metric
H40	PE-80 Fusion socket metric
H41	PE-100 Butt fusion spigot SDR11 metric
H43	PE-100 Butt fusion spigto long SDR11 metric
H62	Fixed flange PVC-U JIS
H70	Backing flange PVC-U metric with PVC-U endings
H71	Backing flange PVC-U Zoll ANSI with PVC-U endings
H71 PVCC	Backing flange PVC-U Zoll ANSI with PVC-C endings
H72 PVCU	Backing flange PP-steel metric with PVC-U endings
H72 PVCC	Backing flange PP-steel metric with PVC-C endings
H72 ABS	Backing flange PP-steel metric with ABS endings
H73 PVCU	Backing flange PP-steel Zoll ANSI with PVC-U endings
H73 PVCC	Backing flange PP-steel Zoll ANSI with PVC-C endings
H73 ABS	Backing flange PP-steel Zoll ANSI with ABS endings
H74 PVCU	Backing flange PP-V metric with PVC-U endings
H74 PVCC	Backing flange PP-V metric with PVC-C endings
H74 ABS	Backing flange PP-V metric with ABS endings
H74 PVCC	Backing flange PP-V metric with PVC-C endings
H75 PVCU	Backing flange PP-V ANSI with PVC-U endings
H75 PVCC	Backing flange PP-V ANSI with PVC-C endings
H78 PVCU	Backing flange PP-GF JIS with PVC-U endings
H80	PVC-U valve end blank

Electrical feedback
I33 Electrical feedback with Ag, Ni limit switches
I34 Electrical feedback with Au limit switches

Manual actuated: pressure tight housing
K30 Bonnet pressure tight
K31 Bonnet not pressure tight

Pressure range
M01 PN10
M02 PN16

Pneumatic Actuator DIASTAR
P40 DIASTAR Six FC fail safe to close
P43 DIASTAR Ten FC fail safe to close
P44 DIASTAR Sixteen FC fail safe to close
P45 DIASTAR Sixteen FO fail safe to open
P46 DIASTAR Sixteen DA double acting
P47 DIASTAR Ten FO fail safe to open
P48 DIASTAR Ten DA double acting



Example:
Diaphragm valve with valve body type 515, PVC-U, EPDM diaphragm, DN25, cemented spigots metric, electrical feedback, pressure tight housing, PN10

A21 B01 C08 D11 E01 H05 I33 K30 M01

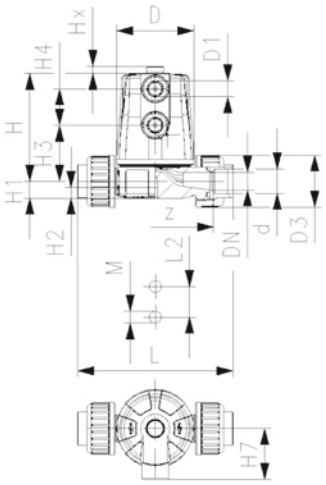
P =



+GF+

Diaphragm valves pneumatic type 604 / 605





Diaphragm valve type 604 PVC-U
Unions with solvent cement socket metric

Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	FKM Code	Weight (kg)
20	15	½	6	125	FC	**161 604 012**	**161 604 062**	0.40
20	15	½	6	125	FO	**161 604 014**	**161 604 064**	0.37
20	15	½	6	125	DA	**161 604 015**	**161 604 065**	0.35

PTFE/EPDM* Code
161 604 032
161 604 034
161 604 035

D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
65	¼	43	89	14	12	46	30	42	128	25	M6	96	6
65	¼	43	89	14	12	46	30	42	128	25	M6	96	6
65	¼	43	89	14	12	46	30	42	128	25	M6	96	6



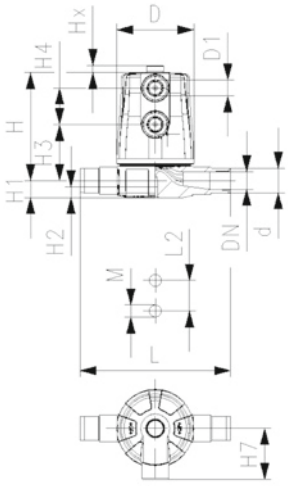
Diaphragm valve type 605 PVC-U
Cement spigot metric

Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	FKM Code	Weight (kg)
20	15	½	6	125	FC	**161 605 012**	**161 605 062**	0.34
20	15	½	6	125	FO	**161 605 014**	**161 605 064**	0.31
20	15	½	6	125	DA	**161 605 015**	**161 605 065**	0.29

PTFE/ EPDM* Code	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
161 605 032	65	¼	89	14	12	46	30	42	124	25	M6	6
161 605 034	65	¼	89	14	12	46	30	42	124	25	M6	6
161 605 035	65	¼	89	14	12	46	30	42	124	25	M6	6



Diaphragm valve type 604 PVC-U
Unions with threaded socket Rp

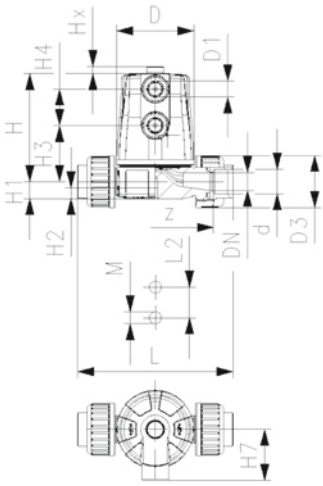
Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve

* O-Ring material: FKM

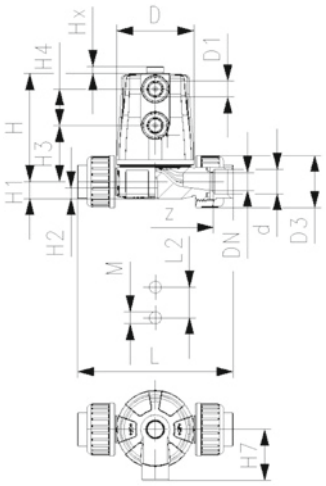


Actuator	d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)
FC	20	15	Rp	½	6	125
FO	20	15	Rp	½	6	125
DA	20	15	Rp	½	6	125

Actuator	EPDM Code	FKM Code	Weight (kg)	PTFE/ EPDM* Code
FC	**161 604 412**	**161 604 462**	0.40	**161 604 432**
FO	**161 604 414**	**161 604 464**	0.37	**161 604 434**
DA	**161 604 415**	**161 604 465**	0.35	**161 604 435**

Actuator	D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
FC	65	¼	43	89	14	12	46	30	42	128	25	M6	102	6
FO	65	¼	43	89	14	12	46	30	42	128	25	M6	102	6
DA	65	¼	43	89	14	12	46	30	42	128	25	M6	102	6





Diaphragm valve Type 604 PVC-U
With Stroke limiter
Unions with solvent cement socket metric

Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length
- Valve stroke can be easily adjusted with screw driver

Option:

- Individual configuration of the valve

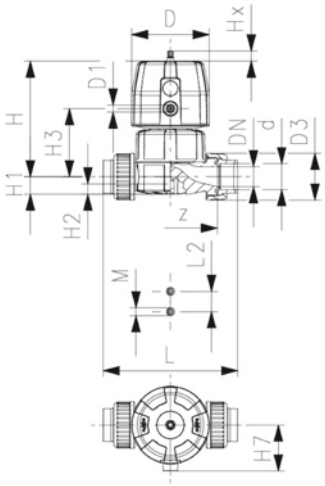
* O-Ring material: FKM

Actuator	d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code	PTFE/ EPDM* Code
FC	20	15	6	125	**800 059 080**	**800 060 429**	**800 059 987**

Actuator	D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
FC	65	¼	43	89	14	12	46	30	42	128	25	M6	96	6

DIASTAR Six





Diaphragm valve DIASTAR Six PVC-U
FC (Fail safe to close)
Unions with solvent cement sockets metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

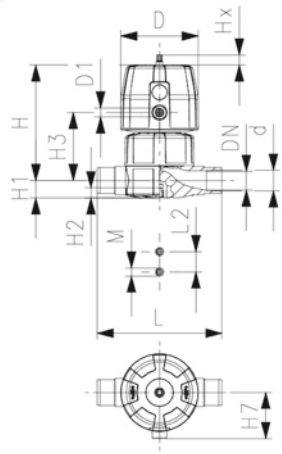
Option:

- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	6	125	**161 614 011**	0.532		
25	20	¾	6	271	**161 614 013**	1.009	**800 047 328**	1.760
32	25	1	6	481	**161 614 014**	1.246	**800 047 329**	1.259
40	32	1 ¼	6	759	**161 614 015**	2.112	**800 047 330**	3.760
50	40	1 ½	6	960	**161 614 016**	2.618	**800 047 331**	2.782
63	50	2	6	1181	**161 614 017**	3.553	**800 047 332**	7.800

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
16	68	⅛	101	14	12	60	43	170	25	M6	142	7	⅜
25	96	⅛	132	18	12	73	57	152	25	M6	114	10	¾
32	96	⅛	143	22	12	84	57	166	25	M6	122	13	1
40	120	⅛	173	26	15	99	69	192	45	M8	140	14	1 ¼
50	120	⅛	193	32	15	119	69	222	45	M8	160	16	1 ½
63	120	⅛	205	39	15	132	69	266	45	M8	190	16	2





Diaphragm valve DIASTAR Six PVC-U
FC (Fail safe to close)
With solvent cement spigots metric

Model:

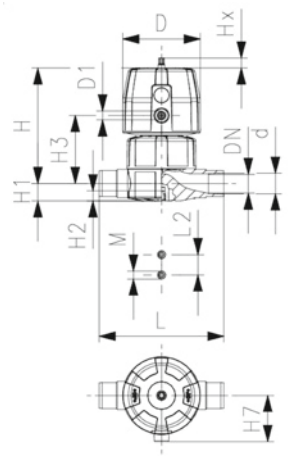
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
25	20	¾	6	271	**161 615 013**	0.964
32	25	1	6	481	**161 615 014**	1.137
40	32	1 ¼	6	759	**161 615 015**	2.414
50	40	1 ½	6	960	**161 615 016**	2.482
63	50	2	6	1181	**161 615 017**	3.340

table continued on the next page



d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
25	96	⅛	132	18	12	73	57	144	25	M6	10	¾
32	96	⅛	143	22	12	84	57	154	25	M6	13	1
40	120	⅛	173	26	15	99	69	174	45	M8	14	1 ¼
50	120	⅛	193	32	15	119	69	194	45	M8	16	1 ½
63	120	⅛	205	39	15	132	69	224	45	M8	16	2



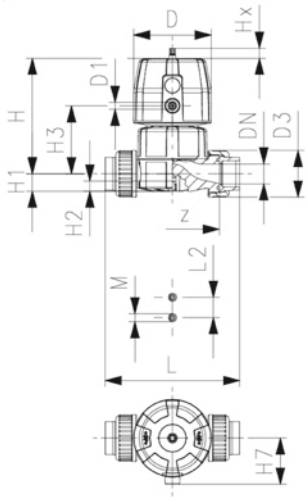
Diaphragm valve DIASTAR Six PVC-U
FC (Fail safe to close)
Unions with threaded sockets Rp

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve



d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
25	20	Rp	¾	6	271	**161 614 413**	1.008
32	25	Rp	1	6	481	**161 614 414**	1.277
40	32	Rp	1 ¼	6	759	**161 614 415**	2.068
50	40	Rp	1 ½	6	960	**161 614 416**	2.678
63	50	Rp	2	6	1181	**161 614 417**	3.826

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
96	⅛	132	18	12	73	57	152	25	M6	114	10
96	⅛	143	22	12	84	57	166	25	M6	122	13
120	⅛	173	26	15	99	69	192	45	M8	140	14
120	⅛	193	32	15	119	69	222	45	M8	160	16
120	⅛	205	39	15	132	69	266	45	M8	190	16



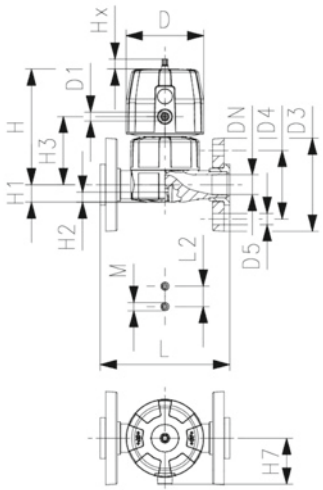
Diaphragm valve DIASTAR Six PVC-U
FC (Fail safe to close)
With backing flanges PVC-U metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	15	½	6	125	**161 617 012**	0.661
25	20	¾	6	271	**161 617 013**	1.180
32	25	1	6	481	**161 617 014**	1.456
40	32	1 ¼	6	759	**161 617 015**	1.991
50	40	1 ½	6	960	**161 617 016**	3.018
63	50	2	6	1181	**161 617 017**	4.159

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
20	68	⅛	95	65	14	101	14	12	60	43	130	25	M6	7
25	96	⅛	105	75	14	132	18	12	73	57	150	25	M6	10
32	96	⅛	115	85	14	143	22	12	84	57	160	25	M6	13
40	120	⅛	140	100	18	173	26	15	99	69	180	45	M8	14
50	120	⅛	150	110	18	193	32	15	119	69	200	45	M8	16
63	120	⅛	165	125	18	205	39	15	132	69	230	45	M8	16

d (mm)	closest inch (inch)
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



Diaphragm valve DIASTAR Ten PVC-U
FC (Fail safe to close)
With solvent cement spigots metric

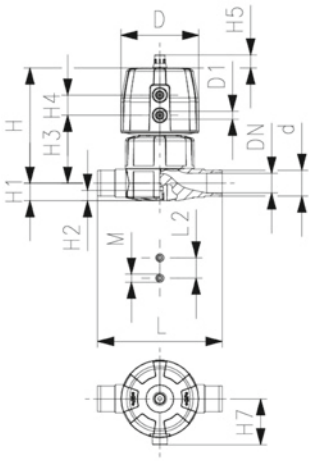
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 625 012**	0.497	**161 625 032**	0.539
25	20	¾	10	10*	271	**161 625 013**	1.029	**161 625 033**	1.050
32	25	1	10	10*	481	**161 625 014**	1.223	**161 625 034**	1.238
40	32	1 ¼	10	10*	759	**161 625 015**	2.026	**161 625 035**	2.114
50	40	1 ½	10	10*	1263	**161 625 016**	3.550	**161 625 036**	3.580
63	50	2	6	6*	1728	**161 625 017**	4.368	**161 625 037**	4.412

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	7	½
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	10	¾
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	13	1
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	15	1 ¼
50	150	¼	214	32	15	119	36	26	88	194	45	M8	19	1 ½
63	150	¼	226	39	15	132	36	26	88	224	45	M8	23	2



Diaphragm valve DIASTAR Ten PVC-U
FO (Fail safe to open)
Unions with solvent cement sockets metric

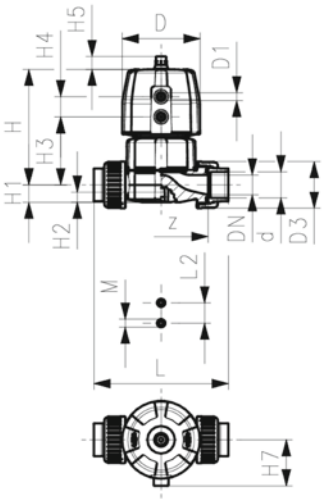
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

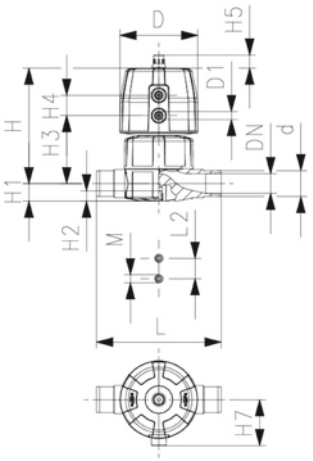


d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
16	10	⅜	10	10*	125	**161 644 011**	0.542	**161 644 031**	0.552
20	15	½	10	10*	125	**161 644 012**	0.542	**161 644 032**	0.506
25	20	¾	10	10*	271	**161 644 013**	1.308	**161 644 033**	0.958
32	25	1	10	10*	481	**161 644 014**	1.198	**161 644 034**	1.154
40	32	1 ¼	10	10*	759	**161 644 015**	1.935	**161 644 035**	1.876
50	40	1 ½	10	10*	1263	**161 644 016**	3.271	**161 644 036**	3.316
63	50	2	10	10*	1728	**161 644 017**	4.765	**161 644 037**	3.979

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
16	68	⅛	101	14	12	60	24	16	43	170	25	M6	142	7
20	68	⅛	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
32	96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
40	120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
50	150	¼	214	32	15	119	36	26	88	222	45	M8	160	19
63	150	¼	226	39	15	132	36	26	88	266	45	M8	190	23

d (mm)	closest inch (inch)
16	⅜
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





Diaphragm valve DIASTAR Ten PVC-U
FO (Fail safe to open)
With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

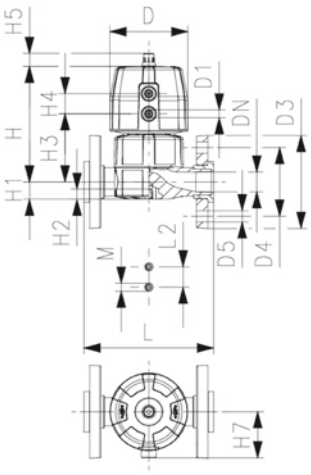
- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 645 012**	0.479	**161 645 032**	0.489
25	20	¾	10	10*	271	**161 645 013**	0.865	**161 645 033**	0.876
32	25	1	10	10*	481	**161 645 014**	1.038	**161 645 034**	1.058
40	32	1 ¼	10	10*	759	**161 645 015**	1.734	**161 645 035**	1.686
50	40	1 ½	10	10*	1263	**161 645 016**	3.013	**161 645 036**	3.490
63	50	2	10	10*	1728	**161 645 017**	3.714	**161 645 037**	4.199

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	7	½
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	10	¾
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	13	1
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	15	1 ¼
50	150	¼	214	32	15	119	36	26	88	194	45	M8	19	1 ½
63	150	¼	226	39	15	132	36	26	88	224	45	M8	23	2





Diaphragm valve DIASTAR Ten PVC-U
FO (Fail safe to open)
With backing flanges PVC-U metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 647 012**	0.637	**161 647 032**	0.647
25	20	¾	10	10*	271	**161 647 013**	1.081	**161 647 033**	1.092
32	25	1	10	10*	481	**161 647 014**	1.350	**161 647 034**	1.370
40	32	1 ¼	10	10*	759	**161 647 015**	1.781	**161 647 035**	1.801
50	40	1 ½	10	10*	1263	**161 647 016**	4.066	**161 647 036**	4.096
63	50	2	10	10*	1728	**161 647 017**	4.997	**161 647 037**	5.025

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
20	68	⅛	95	65	14	101	14	12	60	24	16	43	130	25	M6
25	96	⅛	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	96	⅛	115	85	14	143	22	12	84	25	16	57	160	25	M6
40	120	⅛	140	100	18	173	26	15	99	26	26	69	180	45	M8
50	150	¼	150	110	18	214	32	15	119	36	26	88	200	45	M8
63	150	¼	165	125	18	226	39	15	132	36	26	88	230	45	M8

d (mm)	Lift = Hx (mm)	closest inch (inch)
20	7	½
25	10	¾
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2



Diaphragm valve DIASTAR Ten PVC-U
DA (Double acting)
Unions with solvent cement sockets metric

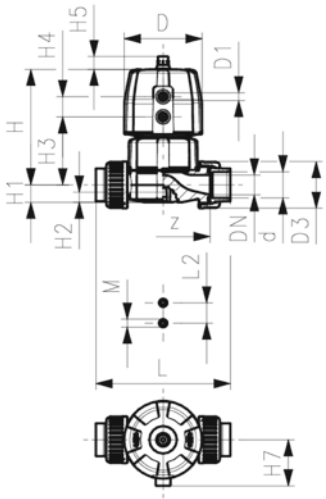
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
16	10	⅜	10	10*	125	**161 654 011**	0.526	**161 654 031**	0.536
20	15	½	10	10*	125	**161 654 012**	0.526	**161 654 032**	0.507
25	20	¾	10	10*	271	**161 654 013**	0.923	**161 654 033**	0.922
32	25	1	10	10*	481	**161 654 014**	1.542	**161 654 034**	1.157
40	32	1 ¼	10	10*	759	**161 654 015**	2.521	**161 654 035**	1.816
50	40	1 ½	10	10*	1263	**161 654 016**	3.250	**161 654 036**	2.994
63	50	2	10	10*	1728	**161 654 017**	4.732	**161 654 037**	3.961

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
16	68	⅛	101	14	12	60	24	16	43	170	25	M6	142	7
20	68	⅛	101	14	12	60	24	16	43	128	25	M6	96	7
25	96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
32	96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
40	120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
50	150	¼	214	32	15	119	36	26	88	222	45	M8	160	19
63	150	¼	226	39	15	132	36	26	88	266	45	M8	190	23

d (mm)	closest inch (inch)
16	⅜
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2



Diaphragm valve DIASTAR Ten PVC-U
DA (Double acting)
With solvent cement spigots metric

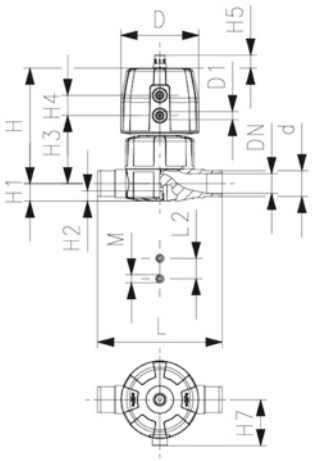
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 655 012**	0.463	**161 655 032**	0.473
25	20	¾	10	10*	271	**161 655 013**	0.829	**161 655 033**	0.840
32	25	1	10	10*	481	**161 655 014**	1.008	**161 655 034**	1.028
40	32	1 ¼	10	10*	759	**161 655 015**	1.606	**161 655 035**	1.626
50	40	1 ½	10	10*	1263	**161 655 016**	2.710	**161 655 036**	2.740
63	50	2	10	10*	1728	**161 655 017**	3.421	**161 655 037**	3.731

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	68	⅛	101	14	12	60	24	16	43	124	25	M6	7	½
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	10	¾
32	96	⅛	143	22	12	84	25	16	57	154	25	M6	13	1
40	120	⅛	173	26	15	99	26	26	69	174	45	M8	15	1 ¼
50	150	¼	214	32	15	119	36	26	88	194	45	M8	19	1 ½
63	150	¼	226	39	15	132	36	26	88	224	45	M8	23	2



Diaphragm valve DIASTAR Ten PVC-U
DA (Double acting)
With backing flanges PVC-U metric/BS

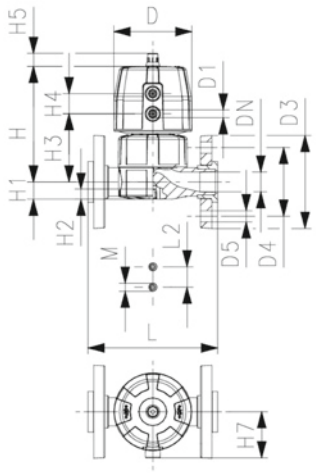
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



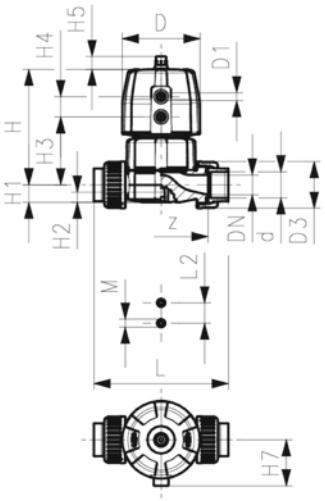
d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 657 012**	0.621	**161 657 032**	0.631
25	20	¾	10	10*	271	**161 657 013**	1.045	**161 657 033**	1.056
32	25	1	10	10*	481	**161 657 014**	1.320	**161 657 034**	1.340
40	32	1 ¼	10	10*	759	**161 657 015**	1.721	**161 657 035**	1.741
50	40	1 ½	10	10*	1263	**161 657 016**	3.316	**161 657 036**	3.346
63	50	2	10	10*	1728	**161 657 017**	4.247	**161 657 037**	4.275

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
20	68	⅛	95	65	14	101	14	12	60	24	16	43	130	25	M6
25	96	⅛	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	96	⅛	115	85	14	143	22	12	84	25	16	57	160	25	M6
40	120	⅛	140	100	18	173	26	15	99	26	26	69	180	45	M8
50	150	¼	150	110	18	214	32	15	119	36	26	88	200	45	M8
63	150	¼	165	125	18	226	39	15	132	36	26	88	230	45	M8

d (mm)	Lift = Hx (mm)	closest inch (inch)
20	7	½
25	10	¾
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2

DIASTAR TenPlus





Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close)
Unions with solvent cement sockets metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM

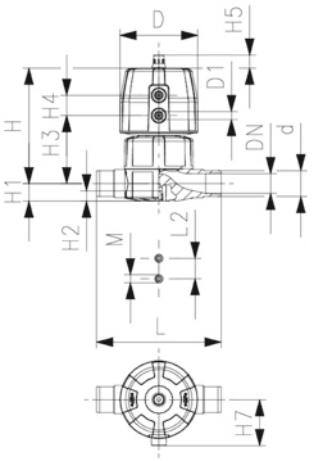
d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	10*	125	**161 684 011**	0.992	**161 684 061**	0.992
20	15	½	10	10*	125	**161 684 012**	1.384	**161 684 062**	1.384
25	20	¾	10	10*	271	**161 684 013**	1.128	**161 684 063**	1.128
32	25	1	10	10*	481	**161 684 014**	2.048	**161 684 064**	2.048
40	32	1 ¼	10	10*	759	**161 684 015**	3.362	**161 684 065**	3.362
50	40	1 ½	10	10*	1263	**161 684 016**	5.585	**161 684 066**	5.585
63	50	2	10	10*	1728	**161 684 017**	7.250	**161 684 067**	7.250

d (mm)	PTFE/ EPDM* Code	Weight (kg)	PTFE/FKM* Code	Weight (kg)
16	**161 684 031**	1.002		
20	**161 684 032**	0.996	**161 684 052**	0.996
25	**161 684 033**	1.131	**161 684 053**	1.131
32	**161 684 034**	2.055	**161 684 054**	2.055
40	**161 684 035**	3.306	**161 684 055**	3.306
50	**161 684 036**	5.242	**161 684 056**	5.242
63	**161 684 037**	6.572	**161 684 057**	6.572

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
16	96	⅛	127	14	12	68	25	16	57	170	25	M6	142	7
20	96	⅛	127	14	12	68	25	16	57	128	25	M6	96	7
25	96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
32	120	⅛	167	22	12	93	26	26	69	166	25	M6	122	13
40	150	¼	196	26	15	101	36	26	88	192	45	M8	140	15
50	180	¼	239	32	15	124	37	26	103	222	45	M8	160	19
63	180	¼	251	39	15	137	37	26	103	266	45	M8	190	23

d (mm)	closest inch (inch)
16	⅜
20	½
25	¾
32	1
40	1 ¼
50	1 ½
63	2





Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close)
With solvent cement spigots metric

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Overall length EN 558

Option:

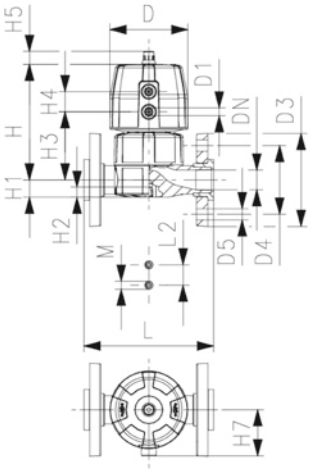
- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 685 012**	0.929	**161 685 032**	0.939
25	20	¾	10	10*	271	**161 685 013**	1.039	**161 685 033**	1.050
32	25	1	10	10*	481	**161 685 014**	1.935	**161 685 034**	1.832
40	32	1 ¼	10	10*	759	**161 685 015**	3.096	**161 685 035**	3.116
50	40	1 ½	10	10*	1263	**161 685 016**	4.958	**161 685 036**	5.360
63	50	2	10	10*	1728	**161 685 017**	5.668	**161 685 037**	5.696

d (mm)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	96	⅛	127	14	12	68	25	16	57	124	25	M6	7	½
25	96	⅛	132	18	12	73	25	16	57	144	25	M6	10	¾
32	120	⅛	167	22	12	93	26	26	69	154	25	M6	13	1
40	150	¼	196	26	15	101	36	26	88	174	45	M8	15	1 ¼
50	180	¼	239	32	15	124	37	26	103	194	45	M8	19	1 ½
63	180	¼	251	39	15	137	37	26	103	224	45	M8	23	2





Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close)
With backing flanges PVC-U metric/BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	10*	125	**161 687 012**	1.087	**161 687 062**	1.087
25	20	¾	10	10*	271	**161 687 013**	1.255	**161 687 063**	1.255
32	25	1	10	10*	481	**161 687 014**	2.124	**161 687 064**	2.124
40	32	1 ¼	10	10*	759	**161 687 015**	3.211	**161 687 065**	3.211
50	40	1 ½	10	10*	1263	**161 687 016**	5.564	**161 687 066**	5.564
63	50	2	10	10*	1728	**161 687 017**	6.922	**161 687 067**	6.922

d (mm)	PTFE/ EPDM* Code	Weight (kg)	PTFE/FKM* Code	Weight (kg)
20	**161 687 032**	1.097	**161 687 052**	1.097
25	**161 687 033**	1.266	**161 687 053**	1.266
32	**161 687 034**	2.144	**161 687 054**	2.144
40	**161 687 035**	3.231	**161 687 055**	3.231
50	**161 687 036**	5.594	**161 687 056**	5.594
63	**161 687 037**	6.522	**161 687 057**	6.522

d (mm)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
20	96	⅛	95	65	14	127	14	12	68	25	16	57	130	25	M6
25	96	⅛	105	75	14	132	18	12	73	25	16	57	150	25	M6
32	120	⅛	115	85	14	167	22	12	93	26	26	69	160	25	M6
40	150	¼	140	100	18	196	26	15	101	36	26	88	180	45	M8
50	180	¼	150	110	18	239	32	15	124	37	26	103	200	45	M8
63	180	¼	165	125	18	251	39	15	137	37	26	103	230	45	M8

d (mm)	Lift = Hx (mm)	closest inch (inch)
20	7	½
25	10	¾
32	13	1
40	15	1 ¼
50	19	1 ½
63	23	2

DIASTAR big dimensions



Diaphragm valve type DIASTAR PVC-U
Series 025 FC (Fail safe to close)
With fixed flanges PVC-U metric

Model:

- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**

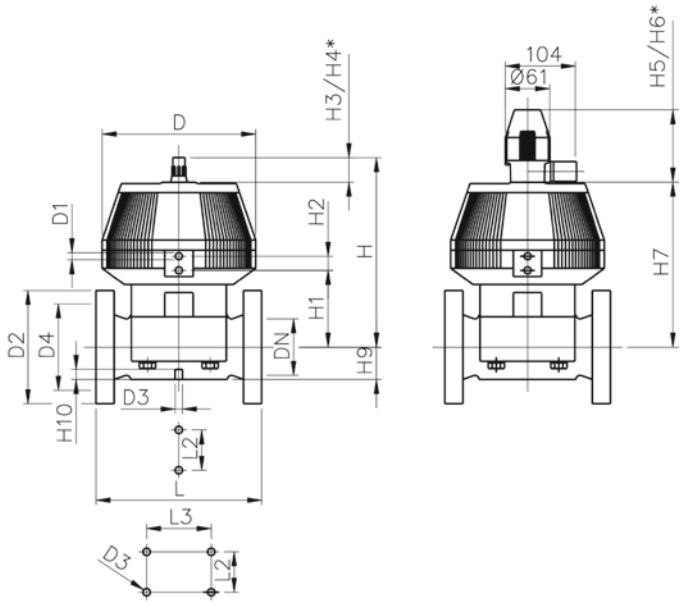
* with backing flanges PVC-U metric
**** DN80, DN100 and DN150 fixed flanges metric and inch ANSI B16.5**

	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code
*	75	2 ½	65	10	992	**199 025 127**	13.730	
**	90	3	80	10	1700	**199 025 128**	17.400	**199 025 068**
**	110	4	100	6	2700	**199 025 129**	7.963	**199 025 069**
**	160	6	150	6	6033	**199 025 130**	35.000	**199 025 070**

	d (mm)	PTFE/EPDM Code	Weight (kg)
*	75	**199 025 157**	15.115
**	90	**199 025 158**	17.604
**	110	**199 025 159**	27.748
**	160		

	d (mm)	D (mm)	D1_G (inch)	D2 (mm)	D3[M] (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H9 (mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
**	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d (mm)	H10 (mm)	L (mm)	L2 (mm)	L3 (mm)
*	75	15	290	70	
**	90	15	310	120	
**	110	20	350	120	
**	160	20	480	100	200



+GF+



Diaphragm valve type DIASTAR PVC-U
Series 025 FO (Fail safe to open)
With fixed flanges PVC-U metric

Model:

- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**

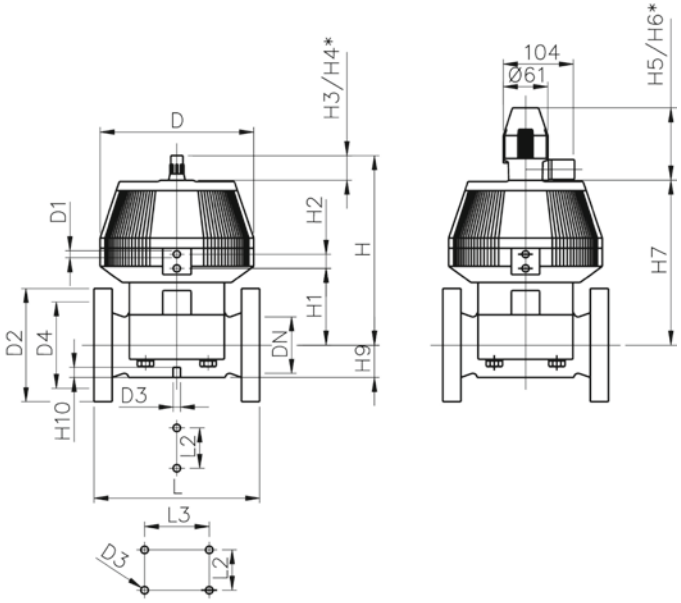
* with backing flanges PVC-U metric
**** DN80, DN100 and DN150 fixed flanges metric and inch ANSI B16.5**

	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
*	75	2 ½	65	10	992	**199 025 137**	11.744
**	90	3	80	10	1700	**199 025 138**	13.950
**	110	4	100	6	2700	**199 025 139**	21.901
**	160	6	150	6	6033	**199 025 140**	35.000

	d (mm)	FKM Code	PTFE/EPDM Code	Weight (kg)
*	75		**199 025 167**	13.600
**	90	**199 025 078**	**199 025 168**	14.137
**	110	**199 025 079**	**199 025 169**	24.700
**	160	**199 025 080**	**199 025 170**	35.000

	d (mm)	D (mm)	D1_G (inch)	D2 (mm)	D3[M] (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H9 (mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
**	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d (mm)	H10 (mm)	L (mm)	L2 (mm)	L3 (mm)
*	75	15	290	70	
**	90	15	310	120	
**	110	20	350	120	
**	160	20	480	100	200





Diaphragm valve type DIASTAR PVC-U
Series 025 DA (Double acting)
With fixed flanges PVC-U metric

Model:

- Connecting dimension: ISO 7005 / EN 1092 / DIN 25 PN10 / BS4504
- With position indicator / Working pressure: **one side**

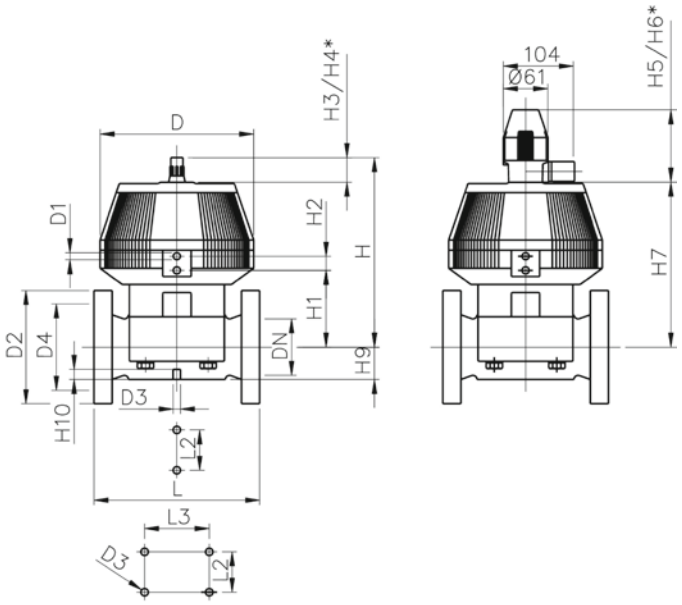
* with backing flanges PVC-U metric
**** DN80, DN100 and DN150 fixed flanges metric and inch ANSI B16.5**

	d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
*	75	2 ½	65	10	992	**199 025 147**	12.487
**	90	3	80	10	1700	**199 025 148**	14.590
**	110	4	100	6	2700	**199 025 149**	23.343
**	160	6	150	6	6033	**199 025 150**	35.000

	d (mm)	FKM Code	PTFE/EPDM Code	Weight (kg)
*	75		**199 025 177**	12.000
**	90	**199 025 088**	**199 025 178**	17.400
**	110	**199 025 089**	**199 025 179**	24.700
**	160	**199 025 090**	**199 025 180**	35.000

	d (mm)	D (mm)	D1_G (inch)	D2 (mm)	D3[M] (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H9 (mm)
*	75	280	¼	185	8	145	344	148	24	46	100	129	195	298	46
**	90	280	¼	200	12	160	348	150	24	46	100	129	195	302	57
**	110	335	¼	225	12	180	395	176	24	46	100	129	195	349	69
**	160	335	¼	285	12	240	455	237	24	46	100	129	195	409	108

	d (mm)	H10 (mm)	L (mm)	L2 (mm)	L3 (mm)
*	75	15	290	70	
**	90	15	310	120	
**	110	20	350	120	
**	160	20	480	100	200

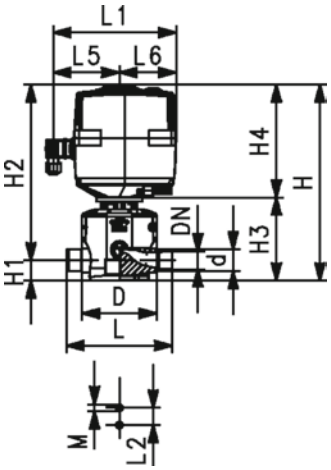


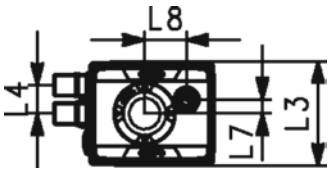
+GF+

Diaphragm valves electric

e-DIASTAR type 515







e-DIASTAR Type 515 PVC-U
24V
With solvent cement spigots metric

Model:

- Voltage 24V AC/DC
- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- Integrated manual emergency override
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
32	25	1	10	442	**161 705 014**	3.601	**161 705 034**	3.621
63	50	2	6	1575	**161 705 017**	6.147	**161 705 037**	6.175

kv-value (Δp=1 bar) (l/min)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H (mm)	H1 (mm)
442	109	154	180	25	122	33	97	83	16	49	190	286	30
1575	168	223	180	45	122	33	97	83	16	49		341	53

H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	M
20	256	121	165	M6
29	289	176	165	M8



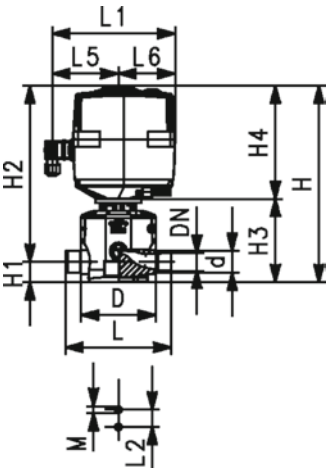
e-DIASTAR Type 515 PVC-U
100-230V
With solvent cement spigots metric

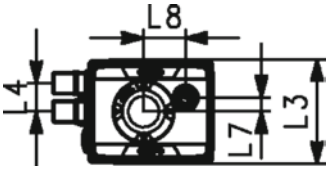
Model:

- Voltage 100-230V, 50-60Hz
- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- Integrated manual emergency override
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board





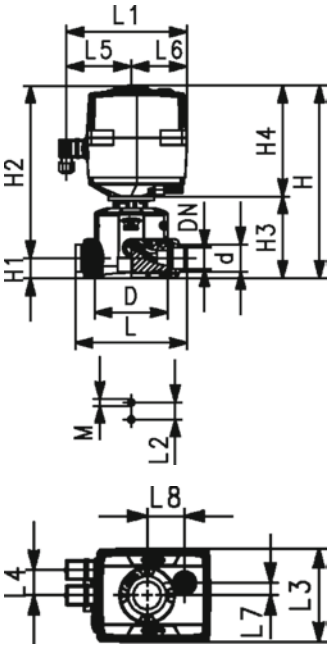
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
32	25	1	10	442	**161 715 014**	3.601	**161 715 034**	3.621
63	50	2	6	1575	**161 715 017**	6.147	**161 715 037**	6.175

kv-value (Δp=1 bar) (l/min)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H (mm)	H1 (mm)
442	109	154	180	25	122	33	97	83	16	49	190	286	30
1575	168	223	180	45	122	33	97	83	16	49		341	53

H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	M
20	256	121	165	M6
29	289	176	165	M8

e-DIASTAR type 514





e-DIASTAR Type 514 PVC-U 24V
With solvent cement sockets metric

Model:

- Voltage 24V AC/DC
- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- Integrated manual emergency override
- Integrated stainless steel mounting inserts

Option:

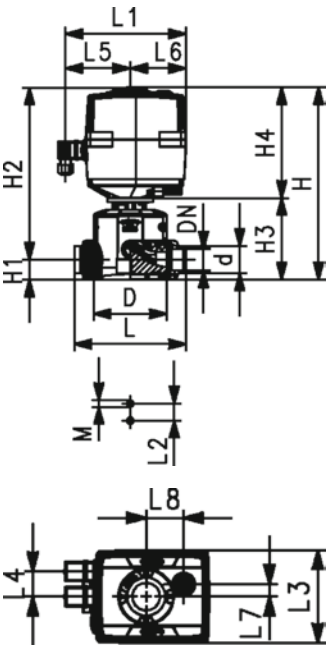
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
32	25	1	10	442	**161 704 014**	3.730	**161 704 034**	3.750
63	50	2	6	1575	**161 704 017**	6.569	**161 704 037**	6.597

kv-value (Δp=1 bar) (l/min)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H (mm)
442	109	58	166	180	25	122	33	97	83	16	49	190	286
1575	168	101	266	180	45	122	33	97	83	16	49		341

H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	z (mm)	M
30	20	256	121	165	122	M6
53	29	289	176	165	122	M8





e-DIASTAR Type 514 PVC-U
100-230V
With solvent cement sockets metric

Model:

- Voltage 100-230V, 50-60Hz
- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- Integrated manual emergency override
- Integrated stainless steel mounting inserts

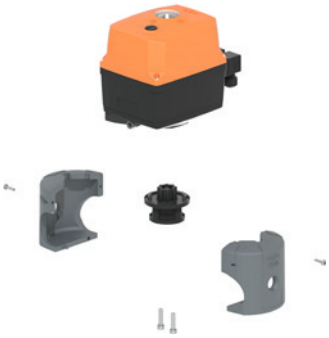
Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
32	25	1	10	442	**161 714 014**	3.730	**161 714 034**	6.569
63	50	2	6	1575	**161 714 017**	2.488	**161 714 037**	6.597

kv-value (Δp=1 bar) (l/min)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H (mm)
442	109	58	166	180	25	122	33	97	83	16	49	190	286
1575	168	101	266	180	45	122	33	97	83	16	49		341

H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	z (mm)	M
30	20	256	121	165	122	M6
53	29	289	176	165	190	M8



Electric actuator MT's type EAMT

Model:

- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- All: Adjustable heater and 7-segment error LED included
- Control open/close; positon feedback open/close
- Contains: Retrofit kit with actuator, half shells and screws

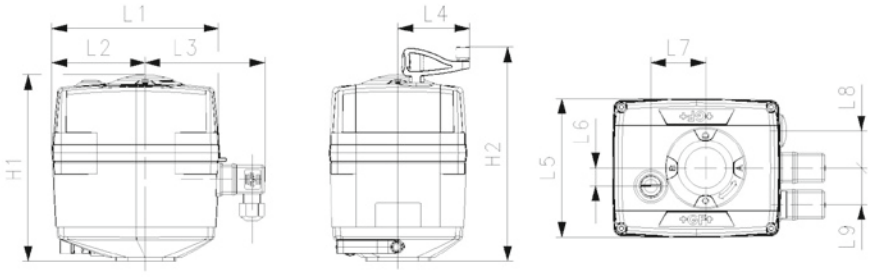
Option:

- All: Fail-safe return unit; monitoring board, positioner, profibus DP board

Type of actuator	Voltage	Torque nominal (N/m)	Torque maximal (N/m)	Interfaces	description
EAMT	24V	10	25	F05 (SW 11/14)*	EA MT DN25
EAMT	24V	20	45	F05 (SW 11/14)*	EA MT DN50
EAMT	100-230V	10	25	F05 (SW 11/14)*	EA MT DN25
EAMT	100-230V	20	45	F05 (SW 11/14)*	EA MT DN50

table continued on the next page

Code	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)
198 153 211	167	188	150	82.5	107	64.3	122	16	49	33	33
198 153 213	167	188	150	82.5	107	64.3	122	16	49	33	33
198 153 210	167	188	150	82.5	107	64.3	122	16	49	33	33
198 153 212	167	188	150	82.5	107	64.3	122	16	49	33	33



Butterfly valves type 567



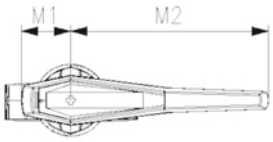
Wafer-style intermediate installation butterfly valve type 567 PVC-U
With hand lever
Flange standard metric/ANSI/BS/JIS

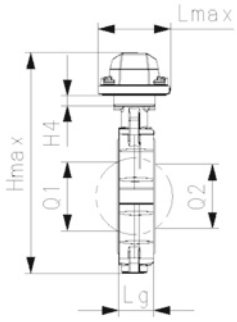
Model:

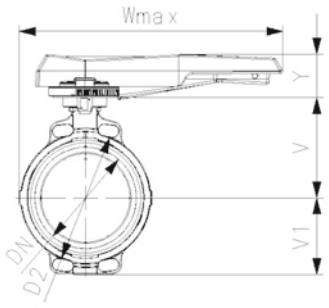
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code	Weight (kg)
63	2	50	10	740	**161 567 002**	**161 567 022**	1.259
75	2 ½	65	10	1500	**161 567 003**	**161 567 023**	1.799
90	3	80	10	2400	**161 567 004**	**161 567 024**	1.534
110	4	100	10	3800	**161 567 005**	**161 567 025**	2.235
140	5	125	10	8600	**161 567 006**	**161 567 026**	2.799
160	6	150	10	11400	**161 567 007**	**161 567 027**	3.791
225	8	200	10	19900	**161 567 008**	**161 567 028**	6.570
280	10	250	6	34000	**161 567 009**	**161 567 029**	12.998
315	12	300	6	50000	**161 567 010**	**161 567 030**	19.139

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	M1 (mm)	M2 (mm)
63	278.9	115.2	269.0	90	133.3	23	78.8	45	104	40		66.8	64.7	205.5
75	291.8	115.2	271.8	90	139.9	23	85.1	46	115	54	35	66.8	64.7	205.5
90	303.6	115.2	273.9	90	145.6	23	91.2	49	131	67	50	66.8	64.7	205.5
110	342.2	115.2	336.0	90	166.4	23	105.7	56	161	88	74	70.1	64.9	255.5
140	368.9	115.2	349.0	90	180.0	23	118.8	64	187	113	97	70.1	64.9	255.5
160	390.0	115.2	363.0	90	189.0	23	130.9	72	215	139	123	70.1	64.9	255.5
225	455.1	149.4	543.0	90	210.5	23	158.3	73	267	178	169	86.3	103.6	409.5
280	555.0	149.4	574.0	125	262.6	23	206.1	113	329	210	207	86.3	103.6	409.5
315	599.4	149.4	599.7	125	284.3	23	228.8	113	379	256	253	86.3	103.6	409.5



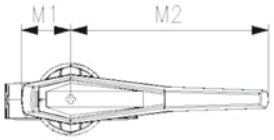
Wafer-style intermediate installation butterfly valve type 567 PVC-U oil free
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

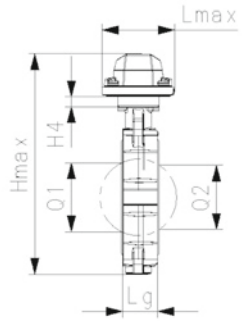
- Oil free
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

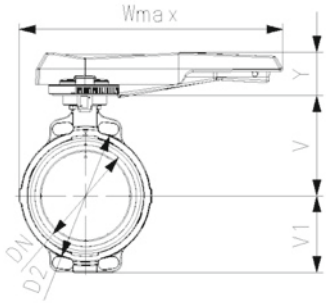
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 567 502**	1.040	**161 567 522**	1.040
75	2 ½	65	10	1500	**161 567 503**	1.344	**161 567 523**	1.143
90	3	80	10	2400	**161 567 504**	1.308	**161 567 524**	1.308
110	4	100	10	3800	**161 567 505**	1.969	**161 567 525**	2.230
140	5	125	10	8600	**161 567 506**	2.536	**161 567 526**	2.536
160	6	150	10	11400	**161 567 507**	3.731	**161 567 527**	3.541
225	8	200	10	19900	**161 567 508**	5.513	**161 567 528**	6.556



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	M1 (mm)	M2 (mm)
63	278.9	115.2	269.0	90	133.3	23	78.8	45	104	40		66.8	64.7	205.5
75	291.8	115.2	271.8	90	139.9	23	85.1	46	115	54	35	66.8	64.7	205.5
90	303.6	115.2	273.9	90	145.6	23	91.2	49	131	67	50	66.8	64.7	205.5
110	342.2	115.2	336.0	90	166.4	23	105.7	56	161	88	74	70.1	64.9	255.5
140	368.9	115.2	349.0	90	180.0	23	118.8	64	187	113	97	70.1	64.9	255.5
160	390.0	115.2	363.0	90	189.0	23	130.9	72	215	139	123	70.1	64.9	255.5
225	455.1	149.4	543.0	90	210.5	23	158.3	73	267	178	169	86.3	103.6	409.5





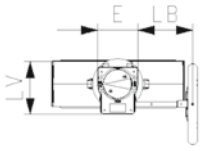
Wafer-style intermediate installation butterfly valve type 567 PVC-U
With gear box
Flange standard metric/ANSI/BS/JIS

Model:

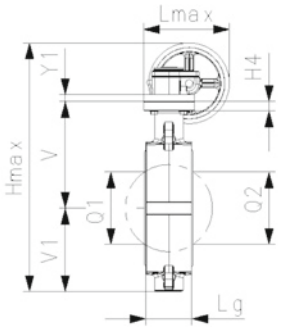
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

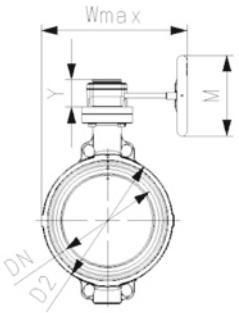
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 567 042**	3.078	**161 567 062**	3.082
75	2 ½	65	10	1500	**161 567 043**	3.181	**161 567 063**	3.186
90	3	80	10	2400	**161 567 044**	3.346	**161 567 064**	3.353
110	4	100	10	3800	**161 567 045**	4.022	**161 567 065**	3.973
140	5	125	10	8600	**161 567 046**	4.185	**161 567 066**	4.544
160	6	150	10	11400	**161 567 047**	5.174	**161 567 067**	5.181
225	8	200	10	19900	**161 567 048**	7.072	**161 567 068**	8.339
280	10	250	10	34000	**161 567 049**	14.741	**161 567 069**	15.115
315	12	300	10	50000	**161 567 050**	19.254	**161 567 070**	35.000



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)	M (mm)
63	319.4	169.1	240.2	133.3	23	78.8	45	104	40		61.2	80		160
75	332.3	169.1	247.3	139.9	23	85.1	46	115	54	35	61.2	80		160
90	344.1	169.1	249.4	145.6	23	91.2	49	131	67	50	61.2	80		160
110	379.4	169.1	261.5	166.4	23	105.7	56	161	88	74	61.2	80		160
140	406.1	169.1	274.5	180.0	23	118.8	64	187	113	97	61.2	80		160
160	427.2	169.1	288.5	189.0	23	130.9	72	215	139	123	61.2	80		160
225	476.1	169.1	267.0	210.5	23	158.3	73	267	178	169	61.2	80		160
280	613.0	212.6	329.0	262.6	23	206.1	113	329	210	207	68.4	100	17	200
315	657.4	212.6	380.4	284.3	23	228.8	113	379	256	253	68.4	100	17	200



d (mm)	LV (mm)	LB (mm)
63	112.3	129.5
75	112.3	129.5
90	112.3	129.5
110	112.3	129.5
140	112.3	129.5
160	112.3	129.5
225	112.3	129.5
280	130.0	134.0
315	130.0	134.0



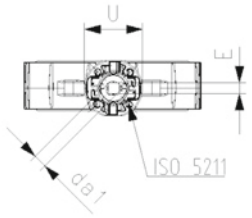
Wafer-style intermediate installation butterfly valve type 567 PVC-U
Bare shaft
Flange standard metric/ANSI/BS/JIS

Model:

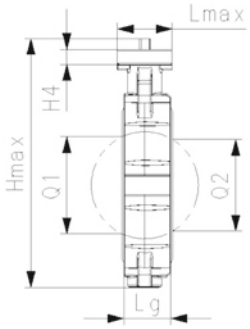
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

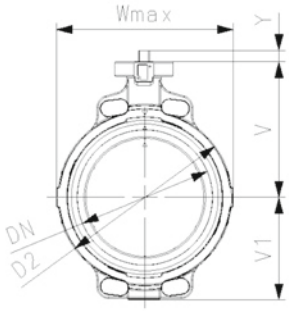
Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 567 802**	0.778	**161 567 822**	0.787
75	2 ½	65	10	1500	**161 567 803**	0.921	**161 567 823**	0.895
90	3	80	10	2400	**161 567 804**	1.052	**161 567 824**	1.068
110	4	100	10	3800	**161 567 805**	1.641	**161 567 825**	2.092
140	5	125	10	8600	**161 567 806**	2.266	**161 567 826**	2.236
160	6	150	10	11400	**161 567 807**	3.179	**161 567 827**	3.238
225	8	200	10	19900	**161 567 808**	5.063	**161 567 828**	5.127
280	10	250	10	34000	**161 567 809**	11.588	**161 567 829**	11.735
315	12	300	10	50000	**161 567 810**	16.050	**161 567 830**	15.936





d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	da1 (mm)
63	238.3	84.8	118.4	90	133.3	23	78.8	45	104	40		26.2	11	13.5
75	251.2	84.8	132.5	90	139.9	23	85.1	46	115	54	35	26.2	11	13.5
90	263.0	84.8	136.8	90	145.6	23	91.2	49	131	67	50	26.2	11	13.5
110	287.5	84.8	161.0	90	166.4	23	105.7	56	161	88	74	15.4	14	17.3
140	314.2	84.8	187.0	90	180.0	23	118.8	64	187	113	97	15.4	14	17.3
160	338.3	84.8	215.0	90	189.0	23	130.9	72	215	139	123	18.4	17	21.1
225	387.2	84.8	267.0	90	210.5	23	158.3	73	267	178	169	18.4	17	21.1
280	508.9	125.0	329.0	125	262.6	23	206.1	113	329	210	207	40.2	22	27.0
315	553.3	125.0	380.4	125	284.3	23	228.8	113	379	256	253	40.2	22	27.0

Butterfly valves electric type 145



Wafer-style intermediate installation butterfly valve type 145 PVC-U
With electric actuator 230V
With manual override
Flange standard metric/ANSI/BS/JIS

Model:

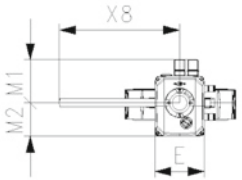
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

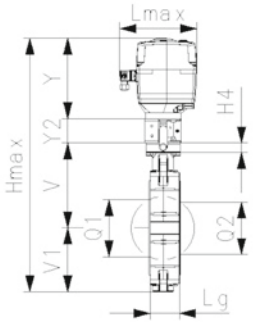
Option:

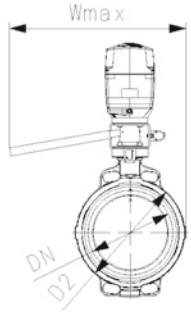
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 145 002**	6.138	**199 145 022**	5.682
75	2 ½	65	10	1500	**199 145 003**	7.213	**199 145 023**	5.786
90	3	80	10	2400	**199 145 004**	6.360	**199 145 024**	5.953
110	4	100	10	3800	**199 145 005**	6.990	**199 145 025**	6.573
140	5	125	10	8600	**199 145 006**	7.508	**199 145 026**	7.147
160	6	150	10	11400	**199 145 007**	10.062	**199 145 027**	8.154
225	8	200	10	19900	**199 145 008**	14.106	**199 145 028**	14.134

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	k (mm)	Y (mm)	E (mm)
63	461.4	190	356.7	90	133.3	23	78.8	45	104	40		125	189.3	122.3
75	474.3	190	363.8	90	139.9	23	85.1	46	115	54	35	145	189.3	122.3
90	486.1	190	365.9	90	145.6	23	91.2	49	131	67	50	160	189.3	122.3
110	521.4	190	378.0	90	166.4	23	105.7	56	161	88	74	180	189.3	122.3
140	548.1	190	391.0	90	180.0	23	118.8	64	187	113	97	210	189.3	122.3
160	569.2	190	405.0	90	189.0	23	130.9	72	215	139	123	240	189.3	122.3
225	628.1	190	431.0	90	210.5	23	158.3	73	267	178	169	295	199.3	122.3

d (mm)	X8 (mm)	Y2 (mm)	M1 (mm)	M2 (mm)
63	297.5	60	107.3	82.7
75	297.5	60	107.3	82.7
90	297.5	60	107.3	82.7
110	297.5	60	107.3	82.7
140	297.5	60	107.3	82.7
160	297.5	60	107.3	82.7
225	297.5	60	107.3	82.7



Wafer-style intermediate installation butterfly valve type 145 PVC-U
With electric actuator 230V
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

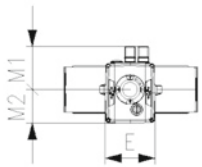
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Option:

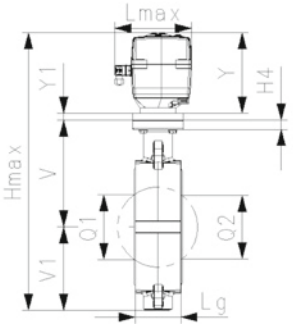
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

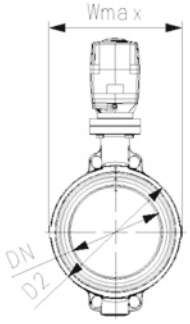
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 145 042**	4.408	**199 145 062**	4.182
75	2 ½	65	10	1500	**199 145 043**	4.509	**199 145 063**	4.286
90	3	80	10	2400	**199 145 044**	4.675	**199 145 064**	4.453
110	4	100	10	3800	**199 145 045**	6.890	**199 145 065**	5.073
140	5	125	10	8600	**199 145 046**	5.626	**199 145 066**	5.644
160	6	150	10	11400	**199 145 047**	6.631	**199 145 067**	6.654
225	8	200	10	19900	**199 145 048**	12.606	**199 145 068**	12.634
280	10	250	6	34000	**199 145 049**	14.334	**199 145 069**	14.481
315	12	300	4	50000	**199 145 050**	19.546	**199 145 070**	19.546



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	393.3	190	118.4	90	133.3	23	78.8	45	104	40		166.2	122.3	15
75	406.2	190	132.5	90	139.9	23	85.1	46	115	54	35	166.2	122.3	15
90	426.1	190	136.8	90	145.6	23	91.2	49	131	67	50	189.3	122.3	
110	461.4	190	161.0	90	166.4	23	105.7	56	161	88	74	189.3	122.3	
140	488.1	190	187.0	90	180.0	23	118.8	64	187	113	97	189.3	122.3	
160	509.2	190	215.0	90	189.0	23	130.9	72	215	139	123	189.3	122.3	
225	568.1	190	267.0	90	210.5	23	158.3	73	267	178	169	199.3	122.3	
280	685.0	190	329.0	125	262.6	23	206.1	113	329	210	207	199.3	122.3	17
315	729.4	190	380.4	125	284.3	23	228.8	113	379	256	253	199.3	122.3	17



d (mm)	M1 (mm)	M2 (mm)
63	107.3	82.7
75	107.3	82.7
90	107.3	82.7
110	107.3	82.7
140	107.3	82.7
160	107.3	82.7
225	107.3	82.7
280	107.3	82.7
315	107.3	82.7



Wafer-style intermediate installation butterfly valve type 145 PVC-U
With electric actuator 24V
With manual override
Flange standard metric/ANSI/BS/JIS

Model:

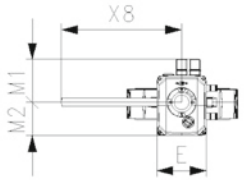
- Voltage 24V AC/DC
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

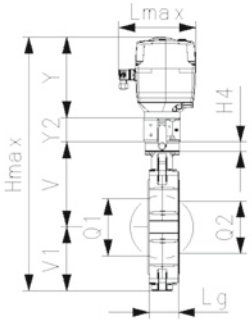
Option:

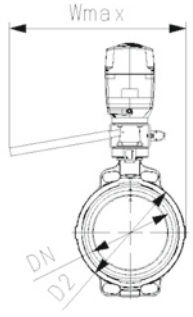
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
63	2	50	10	740	**199 145 082**	6.116
75	2 ½	65	10	1500	**199 145 083**	6.183
90	3	80	10	2400	**199 145 084**	6.327
110	4	100	10	3800	**199 145 085**	6.975
140	5	125	10	8600	**199 145 086**	9.142
160	6	150	10	11400	**199 145 087**	8.418
225	8	200	10	19900	**199 145 088**	14.106

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	X8 (mm)
63	461.4	190	356.7	90	133.3	23	78.8	45	104	40		189.3	122.3	297.5
75	474.3	190	363.8	90	139.9	23	85.1	46	115	54	35	189.3	122.3	297.5
90	486.1	190	365.9	90	145.6	23	91.2	49	131	67	50	189.3	122.3	297.5
110	521.4	190	378.0	90	166.4	23	105.7	56	161	88	74	189.3	122.3	297.5
140	548.1	190	391.0	90	180.0	23	118.8	64	187	113	97	189.3	122.3	297.5
160	569.2	190	405.0	90	189.0	23	130.9	72	215	139	123	189.3	122.3	297.5
225	628.1	190	431.0	90	210.5	23	158.3	73	267	178	169	189.3	122.3	297.5

d (mm)	Y2 (mm)	M1 (mm)	M2 (mm)
63	60	107.3	82.7
75	60	107.3	82.7
90	60	107.3	82.7
110	60	107.3	82.7
140	60	107.3	82.7
160	60	107.3	82.7
225	60	107.3	82.7



Wafer-style intermediate installation butterfly valve type 145 PVC-U
With electric actuator 24V
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

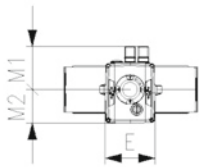
- Voltage 24V AC/DC
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Option:

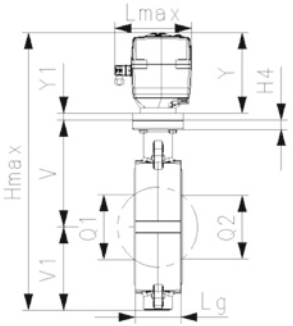
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

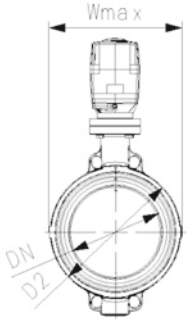
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 145 122**	4.178	**199 145 142**	5.073
75	2 ½	65	10	1500	**199 145 123**	4.281	**199 145 143**	5.073
90	3	80	10	2400	**199 145 124**	4.660	**199 145 144**	5.073
110	4	100	10	3800	**199 145 125**	5.252	**199 145 145**	5.073
140	5	125	10	8600	**199 145 126**	5.793	**199 145 146**	4.286
160	6	150	10	11400	**199 145 127**	6.631	**199 145 147**	4.182
225	8	200	10	19900	**199 145 128**	12.606	**199 145 148**	12.634
280	10	250	6	34000	**199 145 129**	14.334	**199 145 149**	14.334
315	12	300	4	50000	**199 145 130**	19.546	**199 145 150**	19.546



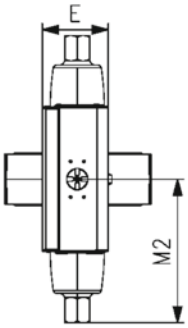
d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	393.3	190	118.4	90	133.3	23	78.8	45	104	40		166.2	122.3	15
75	406.2	190	132.5	90	139.9	23	85.1	46	115	54	35	166.2	122.3	15
90	426.1	190	136.8	90	145.6	23	91.2	49	131	67	50	189.3	122.3	
110	461.4	190	161.0	90	166.4	23	105.7	56	161	88	74	189.3	122.3	
140	488.1	190	187.0	90	180.0	23	118.8	64	187	113	97	189.3	122.3	
160	509.2	190	215.0	90	189.0	23	130.9	72	215	139	123	189.3	122.3	
225	568.1	190	267.0	90	210.5	23	158.3	73	267	178	169	199.3	122.3	
280	685.0	190	329.0	125	262.6	23	206.1	113	329	210	207	199.3	122.3	17
315	729.4	190	380.4	125	284.3	23	228.8	113	379	256	253	199.3	122.3	17

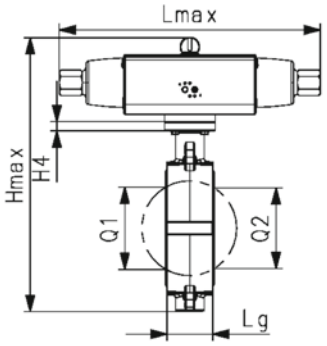


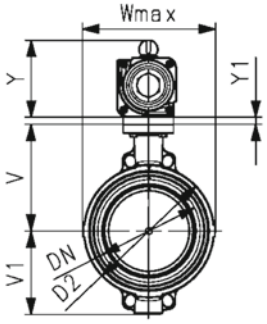
d (mm)	M1 (mm)	M2 (mm)
63	107.3	82.7
75	107.3	82.7
90	107.3	82.7
110	107.3	82.7
140	107.3	82.7
160	107.3	82.7
225	107.3	82.7
280	107.3	82.7
315	107.3	82.7

Butterfly valves pneumatic type 240









Wafer-style intermediate installation butterfly valve type 240 PVC-U
With pneumatic actuator - fail safe to close (FC)
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

- Control range 90°<)
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

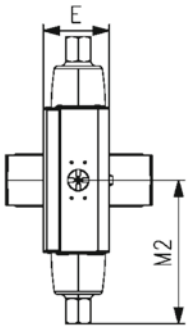
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

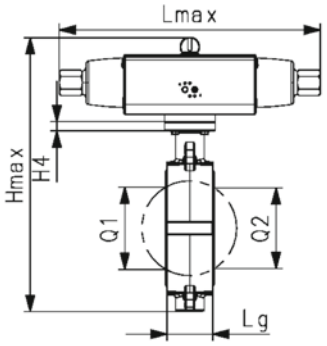
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 240 002**	2.976	**199 240 022**	3.222
75	2 ½	65	10	1500	**199 240 003**	3.086	**199 240 023**	3.075
90	3	80	10	2400	**199 240 004**	3.486	**199 240 024**	3.938
110	4	100	10	3800	**199 240 005**	5.224	**199 240 025**	5.263
140	5	125	10	8600	**199 240 006**	7.127	**199 240 026**	6.884
160	6	150	10	11400	**199 240 007**	10.047	**199 240 027**	10.095
225	8	200	10	19900	**199 240 008**	14.925	**199 240 028**	14.134
280	10	250	10	34000	**199 240 009**	28.200	**199 240 029**	28.000
315	12	300	5	50000	**199 240 010**	36.200	**199 240 030**	36.400

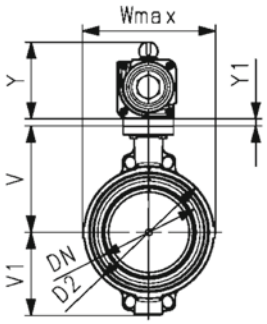
d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	325.3	274.4	118.4	90	133.3	70	78.8	45	104	40		98.2	70.4	15.0
75	338.2	274.4	132.5	90	139.9	70	85.1	46	115	54	35	98.2	70.4	15.0
90	362.9	325.2	136.8	90	145.6	78	91.2	49	131	67	50	111.1	83.3	15.0
110	386.9	359.6	161.0	90	166.4	86	105.7	56	161	88	74	114.8	87.0	
140	448.3	418.0	187.0	90	180.0	96	118.8	64	187	113	97	149.5	107.5	
160	473.0	434.0	215.0	90	189.0	106	130.9	72	215	139	123	153.1	111.1	
225	528.8	498.4	267.0	90	210.5	118	158.3	73	267	178	169	160.0	118.0	
280	676.9	646.0	329.0	125	262.6	148	206.1	113	329	210	207	190.0	148.0	18.2
315	741.4	681.0	380.4	125	284.3	157	228.8	113	379	256	253	210.1	168.0	18.2

d (mm)	M2 (mm)
63	137.2
75	137.2
90	162.6
110	179.8
140	209.0
160	217.0
225	249.2
280	323.0
315	340.5









Wafer-style intermediate installation butterfly valve type 240 PVC-U
With pneumatic actuator - fail safe to open (FO)
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

- Control range 90°<)
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

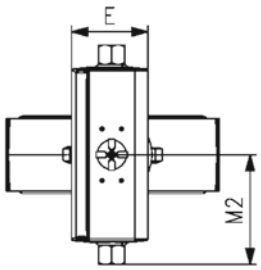
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

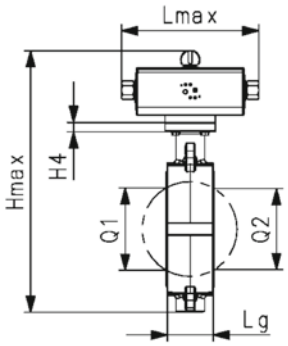
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 240 042**	3.218	**199 240 062**	3.222
75	2 ½	65	10	1500	**199 240 043**	3.321	**199 240 063**	3.326
90	3	80	10	2400	**199 240 044**	3.920	**199 240 064**	3.493
110	4	100	10	3800	**199 240 045**	5.219	**199 240 065**	5.266
140	5	125	10	8600	**199 240 046**	6.866	**199 240 066**	6.884
160	6	150	10	11400	**199 240 047**	10.192	**199 240 067**	10.215
225	8	200	10	19900	**199 240 048**	14.106	**199 240 068**	16.496
280	10	250	10	34000	**199 240 049**	31.800	**199 240 069**	31.600
315	12	300	5	50000	**199 240 050**	36.200	**199 240 070**	25.000

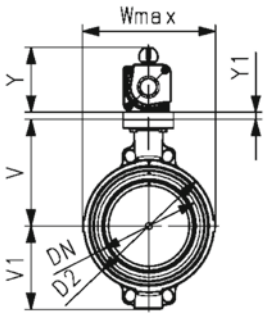
d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	E (mm)	Y1 (mm)
63	325.3	274.4	118.4	90	133.3	70	78.8	45	104	40		98.2	70.4	15.0
75	338.2	274.4	132.5	90	139.9	70	85.1	46	115	54	35	98.2	70.4	15.0
90	362.9	325.2	136.8	90	145.6	78	91.2	49	131	67	50	111.1	83.3	15.0
110	386.9	359.6	161.0	90	166.4	86	105.7	56	161	88	74	114.8	87.0	
140	448.3	418.0	187.0	90	180.0	96	118.8	64	187	113	97	149.5	107.5	
160	473.0	434.0	215.0	90	189.0	106	130.9	72	215	139	123	153.1	111.1	
225	528.8	498.4	267.0	90	210.5	118	158.3	73	267	178	169	160.0	118.0	
280	676.9	646.0	329.0	125	262.6	148	206.1	113	329	210	207	190.0	148.0	18.2
315	741.4	681.0	380.4	125	284.3	157	228.8	113	379	256	253	210.1	168.0	18.2

d (mm)	M2 (mm)
63	137.2
75	137.2
90	162.6
110	179.8
140	209.0
160	217.0
225	249.2
280	323.0
315	340.5









Wafer-style intermediate installation butterfly valve type 240 PVC-U
With pneumatic actuator - double acting (DA)
Without manual override
Flange standard metric/ANSI/BS/JIS

Model:

- Control range 90°<)
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 240 082**	2.936	**199 240 102**	2.072
75	2 ½	65	10	1500	**199 240 083**	2.402	**199 240 103**	2.176
90	3	80	10	2400	**199 240 084**	3.330	**199 240 104**	2.824
110	4	100	10	3800	**199 240 085**	3.765	**199 240 105**	3.563
140	5	125	10	8600	**199 240 086**	4.341	**199 240 106**	4.384
160	6	150	10	11400	**199 240 087**	7.042	**199 240 107**	6.694
225	8	200	10	19900	**199 240 088**	8.907	**199 240 108**	8.134
280	10	250	10	34000	**199 240 089**	18.948	**199 240 109**	19.100
315	12	300	10	50000	**199 240 090**	26.800	**199 240 110**	27.000

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y1 (mm)	Y (mm)	E (mm)
63	319.4	196.2	118.4	90	133.3	23	78.8	45	104	40		15.0	92.3	64.5
75	332.3	196.2	132.5	90	139.9	23	85.1	46	115	54	35	15.0	92.3	64.5
90	350.0	205.6	136.8	90	145.6	23	91.2	49	131	67	50	15.0	98.2	70.4
110	383.3	242.0	161.0	90	166.4	23	105.7	56	161	88	74		111.2	83.3
140	410.0	242.0	187.0	90	180.0	23	118.8	64	187	113	97		111.2	83.3
160	469.4	290.0	215.0	90	189.0	23	130.9	72	215	139	123		149.5	107.5
225	518.3	290.0	267.0	90	210.5	23	158.3	73	267	178	169		149.5	107.5
280	646.9	339.6	329.0	125	262.6	23	206.1	113	329	210	207	18.2	160.0	118.0
315	691.3	339.6	380.4	125	284.3	23	228.8	113	379	256	253	18.2	160.0	118.0

d (mm)	M2 (mm)
63	98.1
75	98.1
90	102.8
110	121.0
140	121.0
160	145.0
225	145.0
280	169.8
315	169.8

Lugstyle butterfly valves type 578



Lug-style end installation butterfly valve type 578 PVC-U
With hand lever
Flange standard metric

Model:

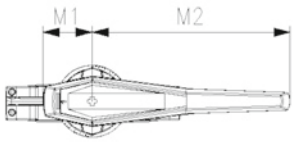
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

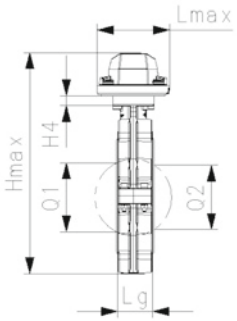
Option:

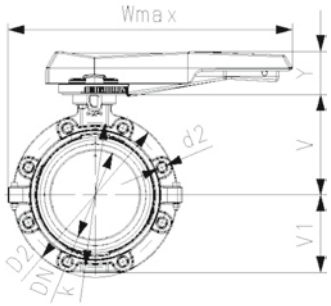
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 578 002**	1.800	**161 578 022**	1.800
75	2 ½	65	10	1500	**161 578 003**	1.895	**161 578 023**	1.895
90	3	80	10	2400	**161 578 004**	2.251	**161 578 024**	2.251
110	4	100	10	3800	**161 578 005**	3.146	**161 578 025**	3.146
140	5	125	10	8600	**161 578 006**	4.660	**161 578 026**	4.660
160	6	150	10	11400	**161 578 007**	6.430	**161 578 027**	6.430
225	8	200	10	19900	**161 578 008**	8.625	**161 578 028**	8.625
280	10	250	6	34000	**161 578 009**	19.528	**161 578 029**	19.528
315	12	300	6	50000	**161 578 010**	26.106	**161 578 030**	26.106

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	Y (mm)	M1 (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		M16	66.8	63.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	M16	66.8	63.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	M16	66.8	63.7
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	M16	70.1	63.7
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	M16	70.1	63.7
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	M20	70.1	63.7
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	M20	86.1	101.7
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	M20	86.3	101.7
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	M20	86.3	101.7

d (mm)	M2 (mm)
63	205.3
75	205.3
90	205.3
110	255.2
140	255.2
160	255.2
225	408.1
280	408.1
315	408.1



Lug-style end installation butterfly valve type 578 PVC-U
With gear box
Flange standard metric

Model:

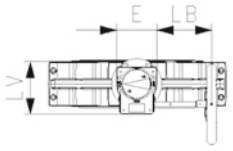
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

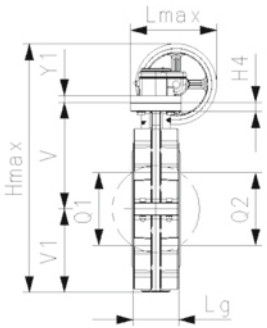
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

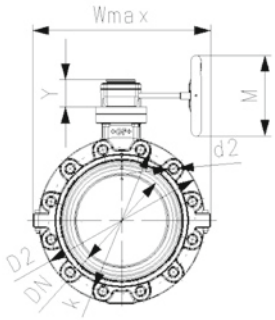
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 578 042**	3.522	**161 578 062**	3.522
75	2 ½	65	10	1500	**161 578 043**	3.672	**161 578 063**	3.672
90	3	80	10	2400	**161 578 044**	3.929	**161 578 064**	3.929
110	4	100	10	3800	**161 578 045**	4.834	**161 578 065**	4.834
140	5	125	10	8600	**161 578 046**	6.348	**161 578 066**	6.348
160	6	150	10	11400	**161 578 047**	8.109	**161 578 067**	8.109
225	8	200	10	19900	**161 578 048**	9.353	**161 578 068**	9.353
280	10	250	10	34000	**161 578 049**	21.210	**161 578 069**	21.210
315	12	300	10	50000	**161 578 050**	27.746	**161 578 070**	27.746



d (mm)	Hmax (mm)	Wmax (mm)	Lmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	Y (mm)	E (mm)
63	319.4	169.1	263.5	90	133.3	23	78.8	44.7	160	40		M16	61.2	80
75	332.3	169.1	272.0	90	139.9	23	85.1	45.7	180	54	35	M16	61.2	80
90	344.1	169.1	286.0	90	145.6	23	91.2	48.7	195	67	50	M16	61.2	80
110	380.8	169.1	301.0	90	166.0	23	107.5	55.6	226	88	74	M16	61.2	80
140	410.0	169.1	317.0	90	180.0	23	122.7	63.5	258	113	97	M16	61.2	80
160	430.8	169.1	321.0	90	189.0	23	134.5	71.5	284	139	123	M20	61.2	80
225	479.3	169.1	360.0	90	210.5	23	161.5	72.5	341	178	169	M20	61.2	80
280	615.6	212.6	440.0	125	264.4	23	206.9	113.2	412	210	207	M20	68.4	100
315	665.0	212.6	510.0	125	285.2	23	235.5	114.6	482	256	253	M20	68.4	100



d (mm)	Y1 (mm)	M (mm)	LV (mm)	LB (mm)
63		160	112.3	129.5
75		160	112.3	129.5
90		160	112.3	129.5
110		160	112.3	129.5
140		160	112.3	129.5
160		160	112.3	129.5
225		160	112.3	129.5
280	17	200	130.0	134.0
315	17	200	130.0	134.0



Lug-style end installation butterfly valve type 578 PVC-U
Bare shaft
Flange standard metric

Model:

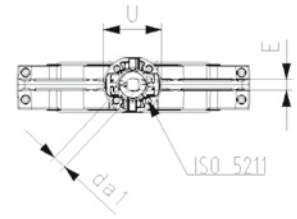
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

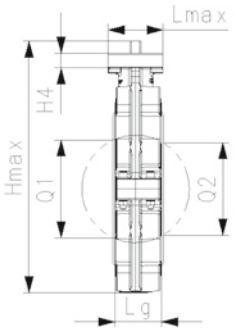
Option:

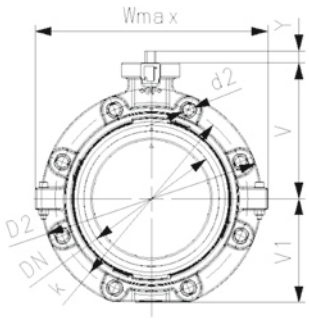
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 578 802**	1.299	**161 578 822**	1.299
75	2 ½	65	10	1500	**161 578 803**	1.456	**161 578 823**	1.456
90	3	80	10	2400	**161 578 804**	1.701	**161 578 824**	1.701
110	4	100	10	3800	**161 578 805**	2.606	**161 578 825**	2.606
140	5	125	10	8600	**161 578 806**	4.120	**161 578 826**	4.120
160	6	150	10	11400	**161 578 807**	5.881	**161 578 827**	5.881
225	8	200	10	19900	**161 578 808**	7.125	**161 578 828**	7.125
280	10	250	10	34000	**161 578 809**	17.880	**161 578 829**	17.880
315	12	300	10	50000	**161 578 810**	24.416	**161 578 830**	24.416

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	Y (mm)	E (mm)
63	238.3	84.8	159.5	90	133.3	23	78.8	44.7	160	40		M16	26.2	11
75	251.2	84.8	166.1	90	139.9	23	85.1	45.7	180	54	35	M16	26.2	11
90	263.0	84.8	171.8	90	145.6	23	91.2	48.7	195	67	50	M16	15.4	11
110	288.9	84.8	181.4	90	166.0	23	107.5	55.6	226	88	74	M16	15.4	14
140	318.1	84.8	195.4	90	180.0	23	122.7	63.5	258	113	97	M16	15.4	14
160	341.9	84.8	207.4	90	189.0	23	134.5	71.5	284	139	123	M20	18.4	17
225	390.4	84.8	228.9	90	210.5	23	161.5	72.5	341	178	169	M20	18.4	17
280	511.5	125.0	304.6	125	264.4	23	206.9	113.2	412	210	207	M20	40.2	22
315	560.9	125.0	325.4	125	285.2	23	235.5	114.6	482	256	253	M20	40.2	22

d (mm)	da1 (mm)
63	13.5
75	13.5
90	13.5
110	17.3
140	17.3
160	21.1
225	21.1
280	27.0
315	27.0



Lug-style end installation butterfly valve type 578 PVC-U
Bare shaft
Flange standard ANSI/ASME

Model:

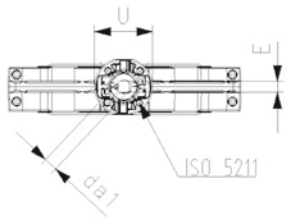
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

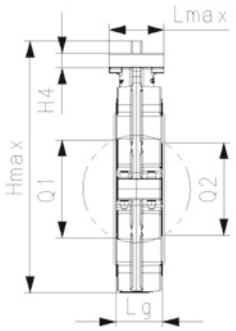
Option:

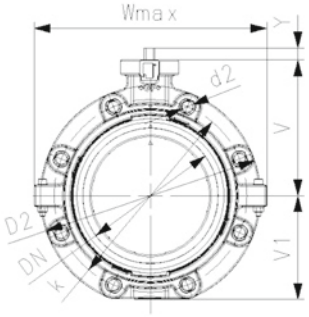
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 578 902**	1.299	**161 578 922**	1.299
75	2 ½	65	10	1500	**161 578 903**	1.456	**161 578 923**	1.456
90	3	80	10	2400	**161 578 904**	1.701	**161 578 924**	1.701
110	4	100	10	3800	**161 578 905**	2.606	**161 578 925**	2.606
140	5	125	10	8600	**161 578 906**	4.120	**161 578 926**	4.120
160	6	150	10	11400	**161 578 907**	5.881	**161 578 927**	5.881
225	8	200	10	19900	**161 578 908**	7.125	**161 578 928**	7.125
280	10	250	10	34000	**161 578 909**	17.880	**161 578 929**	17.880
315	12	300	10	50000	**161 578 910**	24.416	**161 578 930**	24.416

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	da1 (mm)
63	238.3	84.8	159.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	13.5
75	251.2	84.8	166.1	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	13.5
90	263.0	84.8	171.8	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	13.5
110	288.9	84.8	181.4	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	17.3
140	318.1	84.8	195.4	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	17.3
160	341.9	84.8	207.4	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	21.1
225	390.4	84.8	228.9	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	21.1
280	511.5	125.0	304.6	125	264.4	23	206.9	113.2	412	210	253	UNC 7/8	27.0
315	560.9	125.0	325.4	125	285.2	23	235.5	114.6	482	256	207	UNC 7/8	27.0



Lug-style end installation butterfly valve type 578 PVC-U
With hand lever
Flange standard ANSI/ASME

Model:

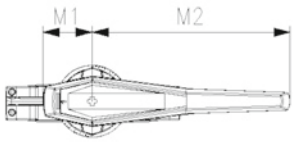
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

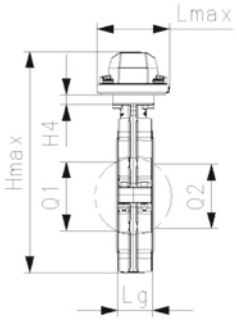
Option:

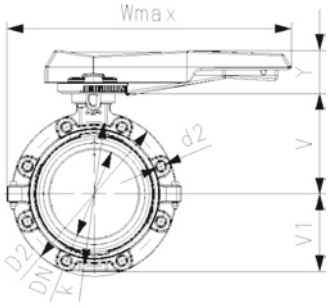
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 578 102**	1.800	**161 578 122**	1.800
75	2 ½	65	10	1500	**161 578 103**	1.895	**161 578 123**	1.895
90	3	80	10	2400	**161 578 104**	2.251	**161 578 124**	2.251
110	4	100	10	3800	**161 578 105**	3.146	**161 578 125**	3.146
140	5	125	10	8600	**161 578 106**	4.660	**161 578 126**	4.660
160	6	150	10	11400	**161 578 107**	6.430	**161 578 127**	6.430
200	8	200	10	19900	**161 578 108**	8.625	**161 578 128**	8.625
250	10	250	6	34000	**161 578 109**	19.528	**161 578 129**	19.528
315	12	300	6	50000	**161 578 110**	26.106	**161 578 130**	26.106

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	Y (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		UNC 5/8	66.8
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	66.8
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	66.8
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	70.1
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	70.1
160	393.6	115.2	395.2	90	179.0	23	134.5	71.5	284	139	123	UNC 3/4	70.1
200	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	86.1
250	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	86.3
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	86.3

d (mm)	M1 (mm)	M2 (mm)
63	63.7	205.3
75	63.7	205.3
90	63.7	205.3
110	63.7	255.2
140	63.7	255.2
160	63.7	255.2
200	101.7	408.1
250	101.7	408.1
315	101.7	408.1



Lug-style end installation butterfly valve type 578 PVC-U
With gear box
Flange standard ANSI/ASME

Model:

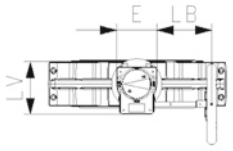
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

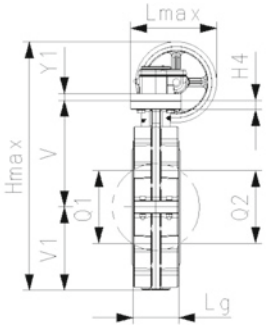
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

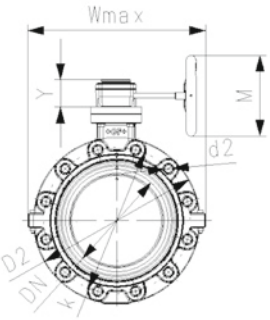
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 578 142**	3.522	**161 578 162**	3.522
75	2 ½	65	10	1500	**161 578 143**	3.672	**161 578 163**	3.672
90	3	80	10	2400	**161 578 144**	3.929	**161 578 164**	3.929
110	4	100	10	3800	**161 578 145**	4.834	**161 578 165**	4.834
140	5	125	10	8600	**161 578 146**	6.348	**161 578 166**	6.348
160	6	150	10	11400	**161 578 147**	8.109	**161 578 167**	8.109
200	8	200	10	19900	**161 578 148**	9.353	**161 578 168**	9.353
250	10	250	10	34000	**161 578 149**	21.210	**161 578 169**	21.210
315	12	300	10	50000	**161 578 150**	27.746	**161 578 170**	27.746



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	Y (mm)
63	319.4	169.1	263.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	61.2
75	332.3	169.1	272.0	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	61.2
90	344.1	169.1	286.0	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	61.2
110	380.8	169.1	301.0	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	61.2
140	410.0	169.1	317.0	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	61.2
160	430.8	169.1	321.0	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	61.2
200	479.3	169.1	360.0	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	61.2
250	615.6	212.6	440.0	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	68.4
315	665.0	212.6	510.0	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	68.4



d (mm)	E (mm)	Y1 (mm)	M (mm)	LV (mm)	LB (mm)
63	80		160	112.3	129.5
75	80		160	112.3	129.5
90	80		160	112.3	129.5
110	80		160	112.3	129.5
140	80		160	112.3	129.5
160	80		160	112.3	129.5
200	80		160	112.3	129.5
250	100	17	200	130.0	134.0
315	100	17	200	130.0	134.0

Lugstyle butterfly valves electric type 146



Lug-Style end installation butterfly valve type 146 PVC-U
With electric actuator 230V
With manual override
Flange standard metric

Model:

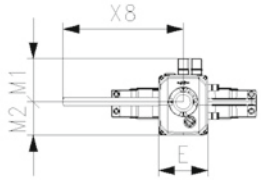
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

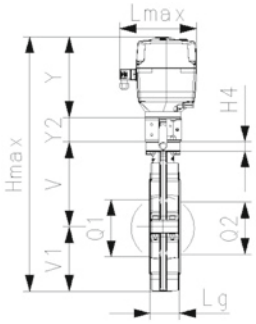
Option:

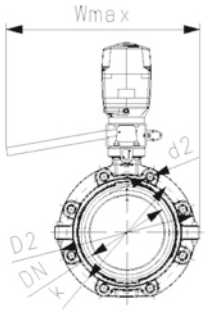
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
63	2	50	10	740	**199 146 002**	5.799
75	2 ½	65	10	1500	**199 146 003**	5.956
90	3	80	10	2400	**199 146 004**	6.201
110	4	100	10	3800	**199 146 005**	7.106
140	5	125	10	8600	**199 146 006**	8.620
160	6	150	10	11400	**199 146 007**	10.381
225	8	200	10	19900	**199 146 008**	15.125

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	438.3	190	380.0	90	133.3	23	78.8	44.7	160	40		M16	125	166.2
75	451.2	190	388.5	90	139.9	23	85.1	45.7	180	54	35	M16	145	166.2
90	486.1	190	402.5	90	145.6	23	91.2	48.7	195	67	50	M16	160	189.3
110	522.8	190	417.5	90	166.0	23	107.5	55.6	226	88	74	M16	180	189.3
140	552.0	190	433.5	90	180.0	23	122.7	63.5	258	113	97	M16	210	189.3
160	582.8	190	447.5	90	189.0	23	134.5	71.5	284	139	123	M20	240	199.3
225	631.3	190	477.5	90	210.5	23	161.5	72.5	341	178	169	M20	295	199.3

d (mm)	E (mm)	X8 (mm)	Y2 (mm)	M1 (mm)	M2 (mm)
63	122.3	297.5	60	107.3	82.7
75	122.3	297.5	60	107.3	82.7
90	122.3	297.5	60	107.3	82.7
110	122.3	297.5	60	107.3	82.7
140	122.3	297.5	60	107.3	82.7
160	122.3	297.5	60	107.3	82.7
225	122.3	297.5	60	107.3	82.7



Lug-Style end installation butterfly valve type 146 PVC-U
With electric actuator 230 V
Without manual override
Flange standard metric

Model:

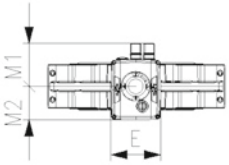
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

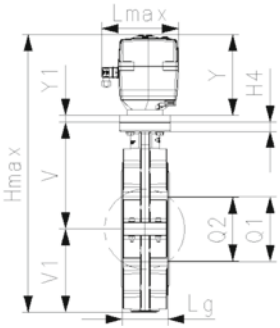
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
63	2	50	10	740	**199 146 042**	4.299
75	2 ½	65	10	1500	**199 146 043**	4.456
90	3	80	10	2400	**199 146 044**	4.456
110	4	100	10	3800	**199 146 045**	5.606
140	5	125	10	8600	**199 146 046**	7.120
160	6	150	10	11400	**199 146 047**	8.881
225	8	200	10	19900	**199 146 048**	13.625
280	10	250	6	34000	**199 146 049**	24.385
315	12	300	4	50000	**199 146 050**	30.916



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	Y (mm)	E (mm)
63	378.3	190	165	90	133.3	23	78.8	44.7	160	40		M16	166.2	122.3
75	391.2	190	182	90	139.9	23	85.1	45.7	180	54	35	M16	166.2	122.3
90	426.1	190	210	90	145.6	23	91.2	48.7	195	67	50	M16	189.3	122.3
110	462.8	190	240	90	166.0	23	107.5	55.6	226	88	74	M16	189.3	122.3
140	492.0	190	272	90	180.0	23	122.7	63.5	258	113	97	M16	189.3	122.3
160	522.8	190	300	90	189.0	23	134.5	71.5	284	139	123	M20	199.3	122.3
225	571.3	190	360	90	210.5	23	161.5	72.5	341	178	169	M20	199.3	122.3
280	670.6	190	440	125	264.4	23	206.9	113.2	412	210	207	M20	199.3	122.3
315	720.0	190	510	125	285.2	23	235.5	114.6	482	256	253	M20	199.3	122.3



d (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63		107.3	82.7
75		107.3	82.7
90		107.3	82.7
110		107.3	82.7
140		107.3	82.7
160		107.3	82.7
225		107.3	82.7
280	17	107.3	82.7
315	17	107.3	82.7



Lug-style end installation butterfly valve type 146 PVC-U
With electric actuator 24V
With manual override
Flange standard metric

Model:

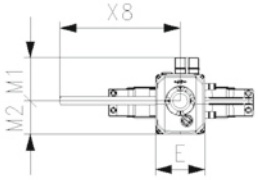
- Voltage 24V AC/DC
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

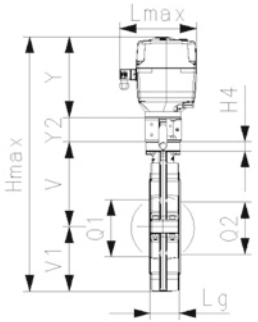
Option:

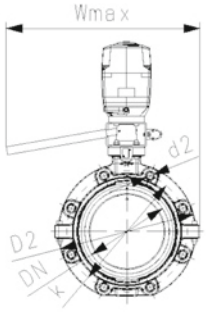
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
63	2	50	10	740	**199 146 082**	5.799
75	2 ½	65	10	1500	**199 146 083**	5.956
90	3	80	10	2400	**199 146 084**	6.201
110	4	100	10	3800	**199 146 085**	7.106
140	5	125	10	8600	**199 146 086**	8.620
160	6	150	10	11400	**199 146 087**	10.381
225	8	200	10	19900	**199 146 088**	15.125

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	438.3	190	487.5	90	133.3	23	78.8	44.7	160	40		M16	125	166.2
75	451.2	190	491.8	90	139.9	23	85.1	45.7	180	54	35	M16	145	166.2
90	486.1	190	498.8	90	145.6	23	91.2	48.7	195	67	50	M16	160	189.3
110	522.8	190	506.3	90	166.0	23	107.5	55.6	226	88	74	M16	180	189.3
140	552.0	190	514.3	90	180.0	23	122.7	63.5	258	113	97	M16	210	189.3
160	582.8	190	521.3	90	189.0	23	134.5	71.5	284	139	123	M20	240	199.3
225	631.3	190	536.3	90	210.5	23	161.5	72.5	341	178	169	M20	295	199.3

d (mm)	E (mm)	X8 (mm)	Y2 (mm)	M1 (mm)	M2 (mm)
63	122.3	297.5	60	107.3	82.7
75	122.3	297.5	60	107.3	82.7
90	122.3	297.5	60	107.3	82.7
110	122.3	297.5	60	107.3	82.7
140	122.3	297.5	60	107.3	82.7
160	122.3	297.5	60	107.3	82.7
225	122.3	297.5	60	107.3	82.7



Lug-Style end installation butterfly valve type 146 PVC-U
With electric actuator 24V
Without manual override
Flange standard metric

Model:

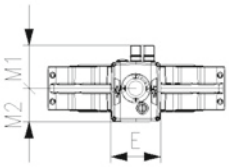
- Voltage 24V AC/DC
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

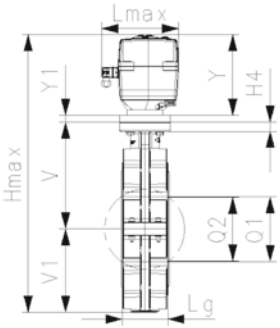
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
63	2	50	10	740	**199 146 122**	4.299
75	2 ½	65	10	1500	**199 146 123**	4.456
90	3	80	10	2400	**199 146 124**	4.701
110	4	100	10	3800	**199 146 125**	5.606
140	5	125	10	8600	**199 146 126**	7.120
160	6	150	10	11400	**199 146 127**	8.881
225	8	200	10	19900	**199 146 128**	13.625
280	10	250	10	34000	**199 146 129**	24.385
315	12	300	5	50000	**199 146 130**	30.916





d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	Y (mm)	E (mm)
63	378.3	190	165	90	133.3	23	78.8	44.7	160	40		M16	166.2	122.3
75	391.2	190	182	90	139.9	23	85.1	45.7	180	54	35	M16	166.2	122.3
90	426.1	190	210	90	145.6	23	91.2	48.7	195	67	50	M16	189.3	122.3
110	462.8	190	240	90	166.0	23	107.5	55.6	226	88	74	M16	189.3	122.3
140	492.0	190	272	90	180.0	23	122.7	63.5	258	113	97	M16	189.3	122.3
160	522.8	190	300	90	189.0	23	134.5	71.5	284	139	123	M20	199.3	122.3
225	571.3	190	360	90	210.5	23	161.5	72.5	341	178	169	M20	199.3	122.3
280	670.6	190	440	125	264.4	23	206.9	113.2	412	210	207	M20	199.3	122.3
315	720.0	190	510	125	285.2	23	235.5	114.6	482	256	253	M20	199.3	122.3

d (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63		107.3	82.7
75		107.3	82.7
90		107.3	82.7
110		107.3	82.7
140		107.3	82.7
160		107.3	82.7
225		107.3	82.7
280	17.0	107.3	82.7
315	17.0	107.3	82.7



Lug-style end installation butterfly valve type 147 PVC-U
With electric actuator 230 V
With manual override
Flange standard ANSI/ASME

Model:

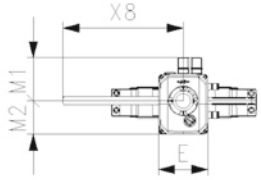
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension ANSI/ASME B 16.5 Class 150

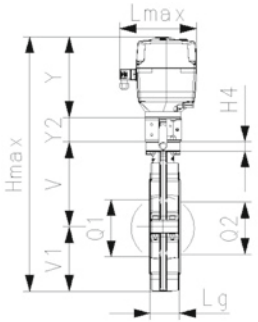
Option:

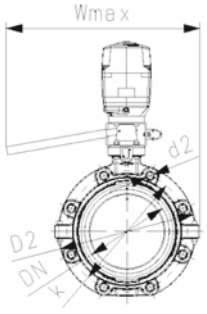
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code
63	2	50	10	740	**199 147 002**	5.799	**199 147 022**
75	2 ½	65	10	1500	**199 147 003**	5.956	**199 147 023**
90	3	80	10	2400	**199 147 004**	6.201	**199 147 024**
110	4	100	10	3800	**199 147 005**	7.106	**199 147 025**
140	5	125	10	8600	**199 147 006**	8.620	**199 147 026**
160	6	150	10	11400	**199 147 007**	10.381	**199 147 027**
200	8	200	10	19900	**199 147 008**	15.125	**199 147 028**

Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
438.3	190	487.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7	166.2
451.2	190	491.8	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7	166.2
486.1	190	498.8	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4	189.3
522.8	190	506.3	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5	189.3
552.0	190	514.3	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9	189.3
582.8	190	521.3	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3	199.3
631.3	190	536.3	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5	199.3

E (mm)	X8 (mm)	Y2 (mm)	M1 (mm)	M2 (mm)
122.3	297.5	60	107.3	82.7
122.3	297.5	60	107.3	82.7
122.3	297.5	60	107.3	82.7
122.3	297.5	60	107.3	82.7
122.3	297.5	60	107.3	82.7
122.3	297.5	60	107.3	82.7
122.3	297.5	60	107.3	82.7



Lug-style end installation butterfly valve type 147 PVC-U
With electric actuator 230 V
Without manual override
Flange standard ANSI/ASME

Model:

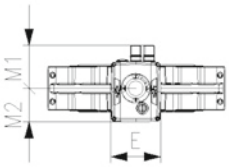
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

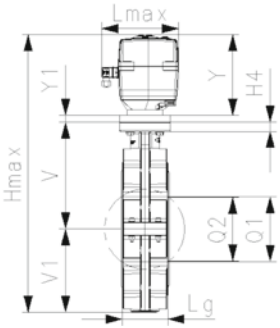
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
63	2	50	10	740	**199 147 042**	4.299
75	2 ½	65	10	1500	**199 147 043**	4.456
90	3	80	10	2400	**199 147 044**	4.701
110	4	100	10	3800	**199 147 045**	5.606
140	5	125	10	8600	**199 147 046**	7.120
160	6	150	10	11400	**199 147 047**	8.881
225	8	200	10	19900	**199 147 048**	13.625
280	10	250	10	34000	**199 147 049**	24.385
315	12	300	10	50000	**199 147 050**	30.916



d (mm)	Size (inch)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2
63	2	378.3	190	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8
75	2 ½	391.2	190	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8
90	3	426.1	190	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8
110	4	462.8	190	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8
140	5	492.0	190	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4
160	6	522.8	190	300	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4
225	8	571.3	190	360	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4
280	10	670.6	190	440	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8
315	12	720.0	190	510	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8



d (mm)	Size (inch)	Y (mm)	E (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63	2	166.2	122.3		107.3	82.7
75	2 ½	166.2	122.3		107.3	82.7
90	3	189.3	122.3		107.3	82.7
110	4	189.3	122.3		107.3	82.7
140	5	189.3	122.3		107.3	82.7
160	6	199.3	122.3		107.3	82.7
225	8	199.3	122.3		107.3	82.7
280	10	199.3	122.3	17	107.3	82.7
315	12	199.3	122.3	17	107.3	82.7

Lugstyle butterfly valves pneumatic type 243



Lug-style end installation butterfly valve type 243 PVC-U
With pneumatic actuator - fail safe to close (FC)
Without manual override
Flange standard metric

Model:

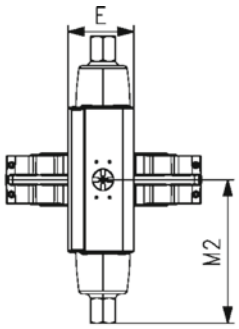
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

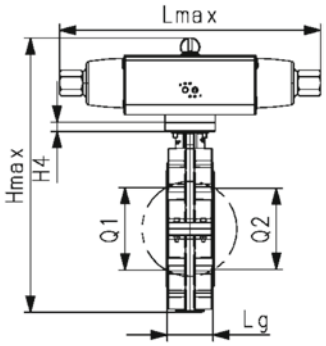
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

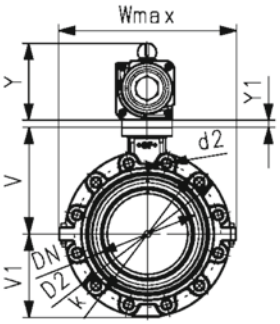
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 243 002**	3.499	**199 243 022**	3.499
75	2 ½	65	10	1500	**199 243 003**	3.656	**199 243 023**	3.656
90	3	80	10	2400	**199 243 004**	4.692	**199 243 024**	4.692
110	4	100	10	3800	**199 243 005**	6.406	**199 243 025**	6.406
140	5	125	10	8600	**199 243 006**	9.222	**199 243 026**	9.222
160	6	150	10	11400	**199 243 007**	12.902	**199 243 027**	12.902
225	8	200	10	19900	**199 243 008**	16.691	**199 243 028**	16.691
280	10	250	10	34000	**199 243 009**	33.880	**199 243 029**	33.880
315	12	300	5	50000	**199 243 010**	43.985	**199 243 030**	43.985



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	Y (mm)	E (mm)
63	328.1	274.4	165	90	133.3	23	78.8	44.7	160	40		M16	98.2	70.4
75	341.0	274.4	182	90	139.9	23	85.1	45.7	180	54	35	M16	98.2	70.4
90	365.7	325.2	210	90	145.6	23	91.2	48.7	195	67	50	M16	111.1	83.3
110	388.3	359.6	240	90	166.0	23	107.5	55.6	226	88	74	M16	114.8	87.0
140	452.2	418.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	149.5	107.5
160	476.6	434.0	280	90	189.0	23	134.5	71.5	284	139	123	M20	153.1	111.1
225	532.0	498.4	360	90	210.5	23	161.5	72.5	341	178	169	M20	160.0	118.0
280	679.5	646.0	440	125	264.4	23	206.9	113.2	412	210	207	M20	190.0	148.0
315	749.0	681.0	510	125	285.2	23	235.5	114.6	482	256	253	M20	210.1	168.0



d (mm)	Y1 (mm)	M2 (mm)
63	15.0	137.2
75	15.0	137.2
90	15.0	162.6
110		179.8
140		209.0
160		217.0
225		249.2
280	18.2	323.0
315	18.2	340.5



Lug-style end installation butterfly valve type 243 PVC-U
With pneumatic actuator - fail safe to open (FO)
Without manual override
Flange standard metric

Model:

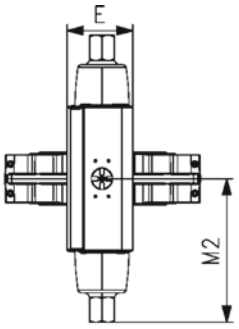
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

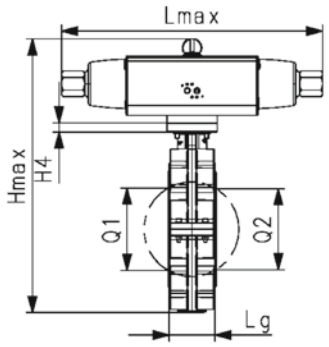
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

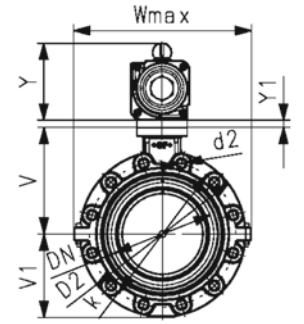
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 243 042**	3.499	**199 243 062**	3.499
75	2 ½	65	10	1500	**199 243 043**	3.656	**199 243 063**	3.656
90	3	80	10	2400	**199 243 044**	4.692	**199 243 064**	4.692
110	4	100	10	3800	**199 243 045**	6.406	**199 243 065**	6.406
140	5	125	10	8600	**199 243 046**	9.222	**199 243 066**	9.222
160	6	150	10	11400	**199 243 047**	12.902	**199 243 067**	12.902
225	8	200	10	19900	**199 243 048**	16.691	**199 243 068**	16.691
280	10	250	10	34000	**199 243 049**	33.880	**199 243 069**	33.880
315	12	300	5	50000	**199 243 050**	43.985	**199 243 070**	43.985



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	328.1	274.4	165	90	133.3	23	78.8	44.7	160	40		M16	125	98.2
75	341.0	274.4	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	98.2
90	365.7	325.2	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111.1
110	388.3	359.6	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	114.8
140	452.2	418.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	149.5
160	476.6	434.0	280	90	189.0	23	134.5	71.5	284	139	123	M20	240	153.1
225	532.0	498.4	360	90	210.5	23	161.5	72.5	341	178	169	M20	295	1160.0
280	679.5	646.0	440	125	264.4	23	206.9	113.2	412	210	207	M20	350	190.0
315	749.0	681.0	510	125	285.2	23	235.5	114.6	482	256	253	M20	400	210.1



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	70.4	15.0	137.2
75	70.4	15.0	137.2
90	83.3	15.0	162.6
110	87.0		179.8
140	107.5		209.0
160	111.1		217.0
225	118.0		249.2
280	148.0	18.2	323.0
315	168.0	18.2	340.5



Lug-style end installation butterfly valve type 243 PVC-U
With pneumatic actuator - double acting (DA)
Without manual override
Flange standard metric

Model:

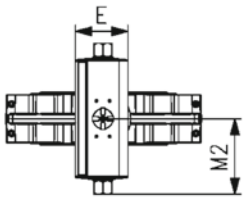
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

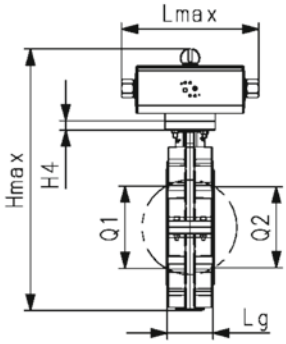
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

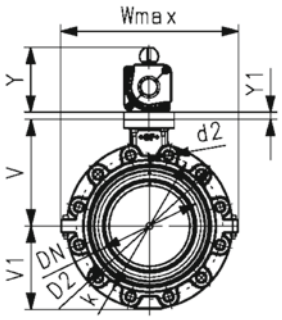
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 243 082**	3.499	**199 243 102**	3.499
75	2 ½	65	10	1500	**199 243 083**	3.656	**199 243 103**	3.656
90	3	80	10	2400	**199 243 084**	4.692	**199 243 104**	4.692
110	4	100	10	3800	**199 243 085**	6.406	**199 243 105**	6.406
140	5	125	10	8600	**199 243 086**	9.222	**199 243 106**	9.222
160	6	150	10	11400	**199 243 087**	12.902	**199 243 107**	12.902
225	8	200	10	19900	**199 243 088**	16.691	**199 243 108**	16.691
280	10	250	10	34000	**199 243 089**	33.880	**199 243 109**	33.880
315	12	300	5	50000	**199 243 090**	43.985	**199 243 110**	43.985



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	319.4	196.2	165	90	133.3	23	78.8	44.7	160	40		M16	125	92.3
75	332.3	196.2	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	92.3
90	352.8	205.6	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	98.2
110	384.7	242.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	111.2
140	413.9	242.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	111.2
160	473.0	290.0	280	90	189.0	23	134.5	71.5	284	139	123	M20	240	149.5
225	521.5	290.0	360	90	210.5	23	161.5	72.5	341	178	169	M20	295	149.5
280	649.5	339.6	440	125	264.4	23	206.9	113.2	412	210	207	M20	350	160.0
315	698.9	339.6	510	125	285.2	23	235.5	114.6	482	256	253	M20	400	160.0



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	64.5	15.0	98.1
75	64.5	15.0	98.1
90	70.4	15.0	102.8
110	83.3		121.0
140	83.3		121.0
160	107.5		145.0
225	107.5		145.0
280	118.0	18.2	169.8
315	118.0	18.2	169.8



Lug-style end installation butterfly valve type 244 PVC-U
With pneumatic actuator - fail safe to close (FC)
Without manual override
Flange standard ANSI/ASME

Model:

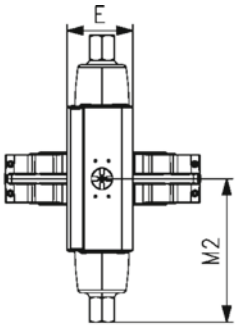
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

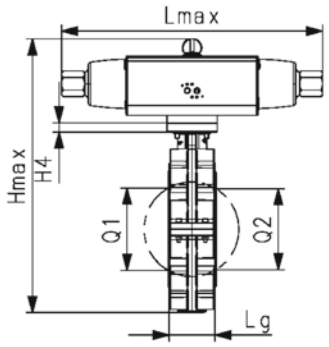
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

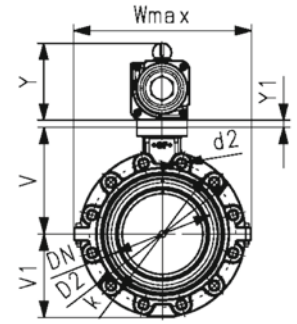
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code
63	2	50	10	740	**199 244 002**	3.499	**199 244 022**
75	2 ½	65	10	1500	**199 244 003**	3.656	**199 244 023**
90	3	80	10	2400	**199 244 004**	4.692	**199 244 024**
110	4	100	10	3800	**199 244 005**	6.406	**199 244 025**
140	5	125	10	8600	**199 244 006**	9.222	**199 244 026**
160	6	150	10	11400	**199 244 007**	12.902	**199 244 027**
225	8	200	10	19900	**199 244 008**	16.691	**199 244 028**
280	10	250	10	34000	**199 244 009**	33.880	**199 244 029**
315	12	300	5	50000	**199 244 010**	43.985	**199 244 030**



d (mm)	Size (inch)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2
63	2	328.1	274.4	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8
75	2 ½	341.0	274.4	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8
90	3	365.7	325.2	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8
110	4	388.3	359.6	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8
140	5	452.2	418.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4
160	6	476.6	434.0	280	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4
225	8	532.0	498.4	360	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4
280	10	679.5	646.0	440	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8
315	12	749.0	681.0	510	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8



d (mm)	Size (inch)	k (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	2	120.7	98.2	70.4	15.0	137.2
75	2 ½	139.7	98.2	70.4	15.0	137.2
90	3	152.4	111.1	83.3	15.0	162.6
110	4	190.5	114.8	87.0		179.8
140	5	215.9	149.5	107.5		209.0
160	6	241.3	153.1	111.1		217.0
225	8	298.5	160.0	118.0		249.2
280	10	362.0	190.0	148.0	18.2	323.0
315	12	431.8	210.1	168.0	18.2	340.5



Lug-style end installation butterfly valve type 244 PVC-U
With pneumatic actuator - fail safe to open (FO)
Without manual override
Flange standard ANSI/ASME

Model:

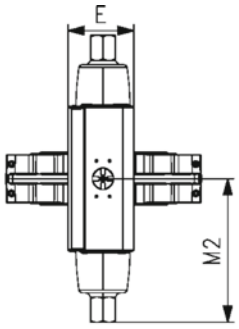
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

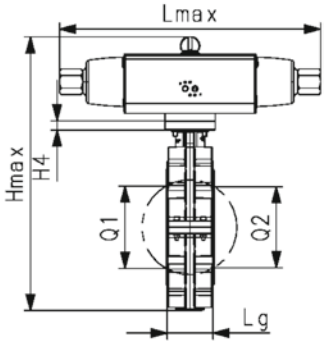
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

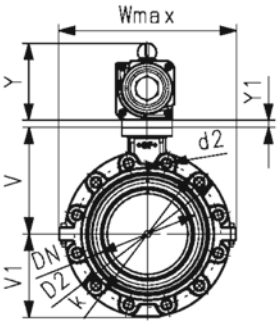
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 244 042**	3.499	**199 244 062**	3.499
75	2 ½	65	10	1500	**199 244 043**	3.656	**199 244 063**	3.656
90	3	80	10	2400	**199 244 044**	4.692	**199 244 064**	4.692
110	4	100	10	3800	**199 244 045**	6.406	**199 244 065**	6.406
140	5	125	10	8600	**199 244 046**	9.222	**199 244 066**	9.222
160	6	150	10	11400	**199 244 047**	12.902	**199 244 067**	12.902
225	8	200	10	19900	**199 244 048**	16.691	**199 244 068**	16.691
280	10	250	10	34000	**199 244 049**	33.880	**199 244 069**	33.880
315	12	300	5	50000	**199 244 050**	43.985	**199 244 070**	43.985



d (mm)	Size (inch)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2
63	2	328.1	274.4	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8
75	2 ½	341.0	274.4	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8
90	3	365.7	325.2	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8
110	4	388.3	359.6	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8
140	5	452.2	418.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4
160	6	476.6	434.0	280	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4
225	8	532.0	498.4	360	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4
280	10	679.5	646.0	440	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8
315	12	749.0	681.0	510	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8



d (mm)	Size (inch)	k (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	2	120.7	98.2	70.4	15.0	137.2
75	2 ½	139.7	98.2	70.4	15.0	137.2
90	3	152.4	111.1	83.3	15.0	162.6
110	4	190.5	114.8	87.0		179.8
140	5	215.9	149.5	107.5		209.0
160	6	241.3	153.1	111.1		217.0
225	8	298.5	160.0	118.0		249.2
280	10	362.0	190.0	148.0	18.2	323.0
315	12	431.8	210.1	168.0	18.2	340.5



Lug-style end installation butterfly valve type 244 PVC-U
With pneumatic actuator - double acting (DA)
Without manual override
Flange standard ANSI/ASME

Model:

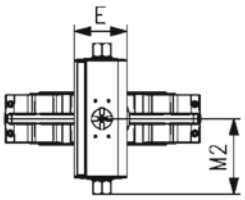
- Housing material: PP-GF30 with SS316 lug-inserts
- Control range 90°<)
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

Option:

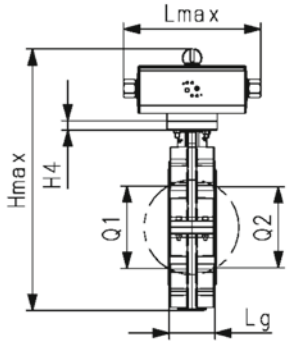
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

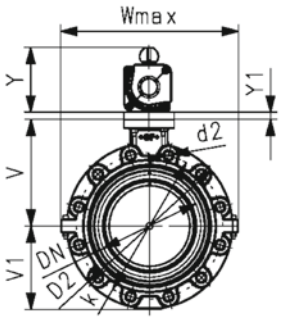
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**199 244 082**	3.499	**199 244 102**	3.499
75	2 ½	65	10	1500	**199 244 083**	3.656	**199 244 103**	3.656
90	3	80	10	2400	**199 244 084**	4.692	**199 244 104**	4.692
110	4	100	10	3800	**199 244 085**	6.406	**199 244 105**	6.406
140	5	125	10	8600	**199 244 086**	9.222	**199 244 106**	9.222
160	6	150	10	11400	**199 244 087**	12.902	**199 244 107**	12.902
225	8	200	10	19900	**199 244 088**	16.691	**199 244 108**	16.691
280	10	250	10	34000	**199 244 089**	33.880	**199 244 109**	33.880
315	12	300	5	50000	**199 244 090**	43.985	**199 244 110**	43.985



d (mm)	Size (inch)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2
63	2	319.4	196.2	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8
75	2 ½	332.3	196.2	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8
90	3	352.8	205.6	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8
110	4	384.7	242.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8
140	5	413.9	242.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4
160	6	473.0	290.0	280	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4
225	8	521.5	290.0	360	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4
280	10	649.5	339.6	440	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8
315	12	698.9	339.6	510	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8



d (mm)	Size (inch)	k (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	2	120.7	92.3	64.5	15.0	98.1
75	2 ½	139.7	92.3	64.5	15.0	98.1
90	3	152.4	98.2	70.4	15.0	102.8
110	4	190.5	111.2	83.3		121.0
140	5	215.9	111.2	83.3		121.0
160	6	241.3	149.5	107.5		145.0
225	8	298.5	149.5	107.5		145.0
280	10	362.0	160.0	118.0	18.2	169.8
315	12	431.8	160.0	118.0	18.2	169.8



Lug-style end installation butterfly valve Type 244 PVC-U
FC (Fail safe to close)
Flange standard ANSI/ASME

Model:

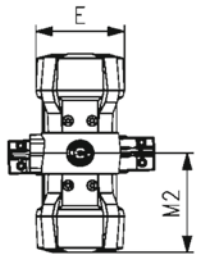
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

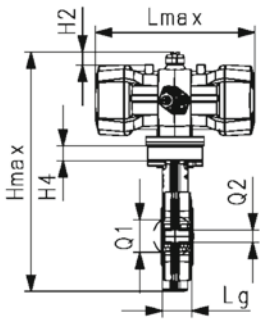
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

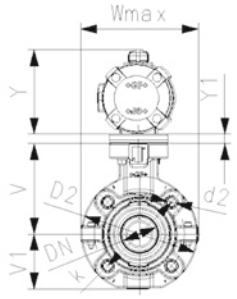
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	**199 244 602**	3.499	**199 244 622**	3.499
75	2 ½	65	10	**199 244 603**	3.656	**199 244 623**	3.656
90	3	80	10	**199 244 604**	4.692	**199 244 624**	4.692
110	4	100	10	**199 244 605**	6.406	**199 244 625**	6.406
140	5	125	10	**199 244 606**	9.222	**199 244 626**	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165.0	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182.0	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210.0	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240.0	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272.0	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve Type 244 PVC-U
FO (Fail safe to open)
Flange standard ANSI/ASME

Model:

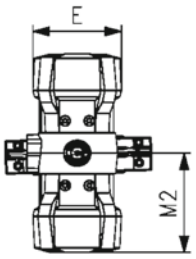
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

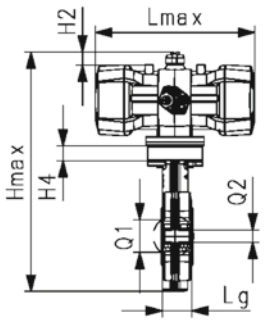
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

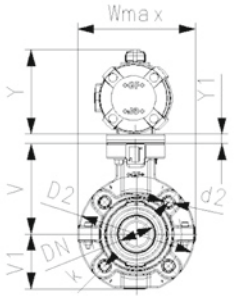
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	**199 244 632**	3.499	**199 244 642**	3.499
75	2 ½	65	10	**199 244 633**	3.656	**199 244 643**	3.656
90	3	80	10	**199 244 634**	4.692	**199 244 644**	4.692
110	4	100	10	**199 244 635**	6.406	**199 244 645**	6.406
140	5	125	10	**199 244 636**	9.222	**199 244 646**	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	122.75
75	111	119.5	15	122.75
90	131	141.5	15	171.50
110	131	141.5		171.50
140	131	141.5		171.50



Lug-style end installation butterfly valve Type 244 PVC-U
DA (Double acting)
Flange standard ANSI/ASME

Model:

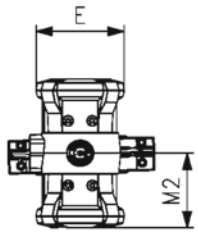
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ANSI/ASME B 16.5 Class 150
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

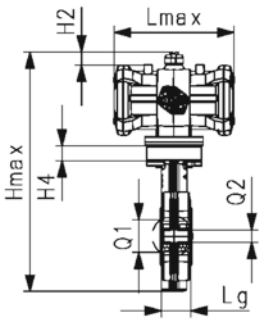
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

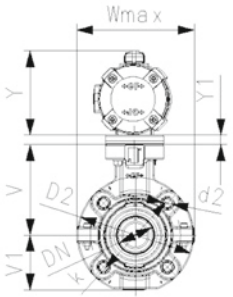
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	**199 244 652**	3.500	**199 244 662**	3.499
75	2 ½	65	10	**199 244 653**	3.600	**199 244 663**	3.656
90	3	80	10	**199 244 654**	4.692	**199 244 664**	4.692
110	4	100	10	**199 244 655**	6.400	**199 244 665**	6.406
140	5	125	10	**199 244 656**	9.200	**199 244 666**	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9



d (mm)	Y (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	111	119.5	15	91.75
75	111	119.5	15	91.75
90	111	119.5	15	91.75
110	131	141.5		130.50
140	131	141.5		130.50



Lug-style end installation butterfly valve Type 243 PVC-U
FC (Fail safe to close)
Flange standard metric

Model:

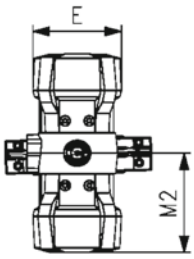
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

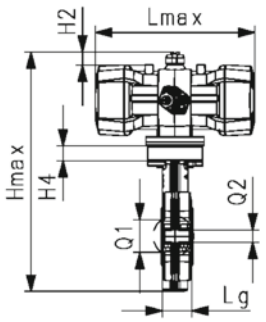
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

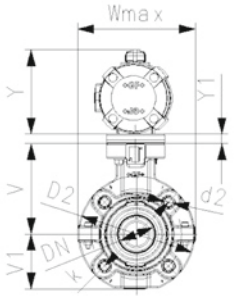
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	**199 243 602**	3.499	**199 243 622**	3.499
75	2 ½	65	10	**199 243 603**	3.656	**199 243 623**	3.656
90	3	80	10	**199 243 604**	4.692	**199 243 624**	4.692
110	4	100	10	**199 243 605**	6.406	**199 243 625**	6.406
140	5	125	10	**199 243 606**	9.222	**199 243 626**	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	245.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	245.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	367.8	343.0	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	131
110	404.5	343.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	343.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	122.75
75	119.5	15	122.75
90	141.5	15	171.50
110	141.5		171.50
140	141.5		171.50



Lug-style end installation butterfly valve Type 243 PVC-U
FO (Fail safe to open)
Flange standard metric

Model:

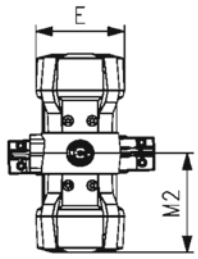
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

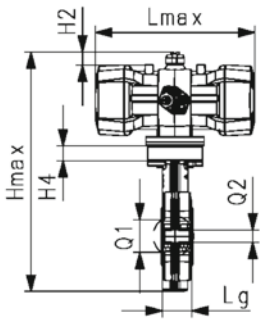
Option:

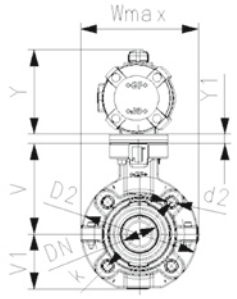
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	**199 243 632**	3.499	**199 243 642**	3.499
75	2 ½	65	10	**199 243 633**	3.656	**199 243 643**	3.656
90	3	80	10	**199 243 634**	4.692	**199 243 644**	4.692
110	4	100	10	**199 243 635**	6.406	**199 243 645**	6.406
140	5	125	10	**199 243 636**	9.222	**199 243 646**	9.222

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)	E (mm)
63	338.1	245.5	165	133.3	23	78.8	44.7	160	40		M16	125	111	119.5
75	351.0	245.5	182	139.9	23	85.1	45.7	180	54	35	M16	145	111	119.5
90	367.8	343.0	210	145.6	23	91.2	48.7	195	67	50	M16	160	131	141.5
110	404.5	343.0	240	166.0	23	107.5	55.6	226	88	74	M16	180	131	141.5
140	433.7	343.0	272	180.0	23	122.7	63.5	258	113	97	M16	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.8
75	15	122.8
90	15	171.5
110		171.5
140		171.5



Lug-style end installation butterfly valve Type 243 PVC-U
DA (Double acting)
Flange standard metric

Model:

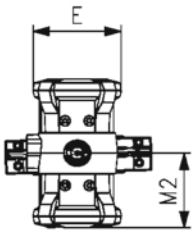
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

Option:

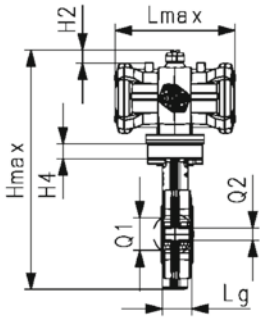
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Positioner RPC, RPC D, RPC PID
- Individual configuration of the valve

Note:

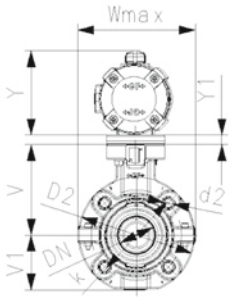
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	**199 243 652**	3.499	**199 243 662**	3.499
75	2 ½	65	10	**199 243 653**	3.656	**199 243 663**	3.656
90	3	80	10	**199 243 654**	4.692	**199 243 664**	4.692
110	4	100	10	**199 243 655**	6.406	**199 243 665**	6.406
140	5	125	10	**199 243 656**	9.222	**199 243 666**	9.222



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	k (mm)	Y (mm)
63	338.1	183.5	165	90	133.3	23	78.8	44.7	160	40		M16	125	111
75	351.0	183.5	182	90	139.9	23	85.1	45.7	180	54	35	M16	145	111
90	362.8	183.5	210	90	145.6	23	91.2	48.7	195	67	50	M16	160	111
110	404.5	261.0	240	90	166.0	23	107.5	55.6	226	88	74	M16	180	131
140	433.7	261.0	272	90	180.0	23	122.7	63.5	258	113	97	M16	210	131



d (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	119.5	15	91.75
75	119.5	15	91.75
90	119.5	15	91.75
110	141.5		130.50
140	141.5		130.50

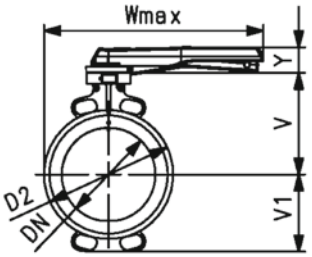
Wafer-style butterfly valves type 565



Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF
With hand lever
Flange standard metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonmic lever
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

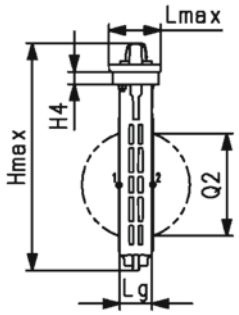


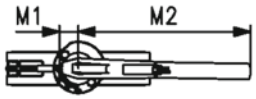
Option:

- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com





d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	16	1445	**199 565 000**	1.3	**199 565 020**	1.4
75	2 ½	65	16	2530	**199 565 001**	1.5	**199 565 021**	1.6
90	3	80	16	4020	**199 565 002**	1.7	**199 565 022**	1.8
110	4	100	16	5850	**199 565 003**	2.5	**199 565 023**	2.7
140	5	125	16	11900	**199 565 004**	3.1	**199 565 024**	3.3
160	6	150	16	18050	**199 565 005**	4.0	**199 565 025**	4.3
225	8	200	10	43667	**199 565 006**	5.3	**199 565 026**	5.7

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	264.0	249.5	96.0	23.0	133.5	63.0	43.0	35.5	204.5	53.0	28.5
75	121.0	271.0	275.5	96.0	23.0	140.0	82.0	46.0	35.5	204.5	53.0	44.0
90	138.0	273.5	288.0	96.0	23.0	146.0	89.0	46.0	35.5	204.5	53.0	63.5
110	158.5	334.0	324.0	96.0	23.0	166.5	104.0	52.0	35.5	254.5	53.0	84.0
140	187.0	348.0	351.0	96.0	23.0	180.0	118.0	56.0	35.5	254.5	53.0	110.5
160	213.0	426.0	372.5	96.0	23.0	189.0	130.5	56.0	35.5	319.5	53.0	137.5
225	267.0	453.0	422.0	96.0	23.0	209.5	159.0	60.0	35.5	319.5	53.0	190.5



Wafer-style intermediate installation butterfly valve type 565 PE
With gear box
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

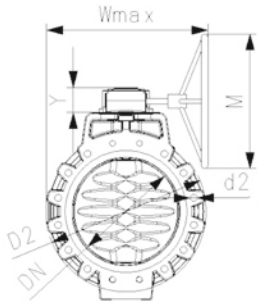
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

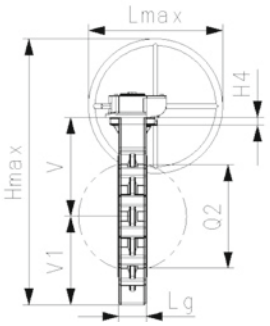
Option:

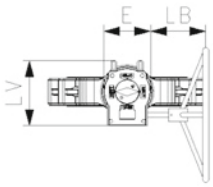
- Individual configuration of the valve possible
- Double sensor for electrical position feedback incl. LED feedback
- Pneumatic or electric actuators

Note:

For some material combination (e.g. valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	Acc.to ISO 5211	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
355	14	350	10	F14	148808	**199 555 200**	49.500
400	16	400	10	F14	185266	**199 555 201**	65.700

d (mm)	d2 (mm)	M (mm)	U (mm)	V (mm)	H4 (mm)	Hmax (mm)	V1 (mm)	Y (mm)	LV (mm)	Q2 (mm)	Lg (mm)	Lmax (mm)	LB (mm)	H (mm)	D2 (mm)
355	22	500	200	332	29	668.5	290	93	242	331	78	500	114	374	517
400	26	500	200	367	29	742.5	329	93	242	379	102	500	114	409	579

d (mm)	k (mm)	E (mm)	Wmax (mm)	d2	ba1 (mm)	ta1 (mm)	ha1 (mm)
355	460	200	569	M20	12	5	8
400	515	200	600	M24	12	5	8



Wafer-style, intermediate installation butterfly valve type 565 PE
Bare Shaft
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

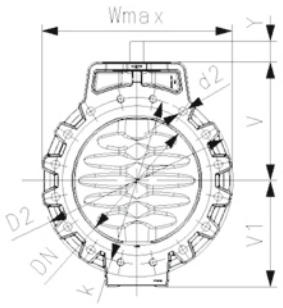
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

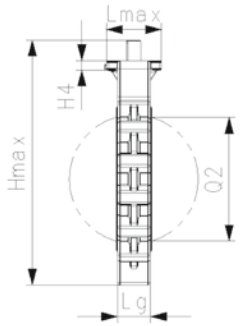
Option:

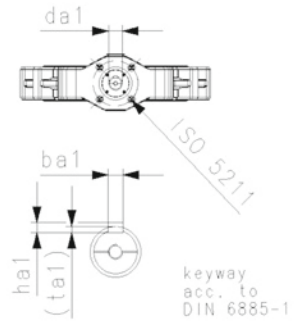
- Individual configuration of the valve possible
- Double sensor for electrical position feedback incl. LED feedback
- Pneumatic or electric actuators

Note:

For some material combination (e.g. valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com





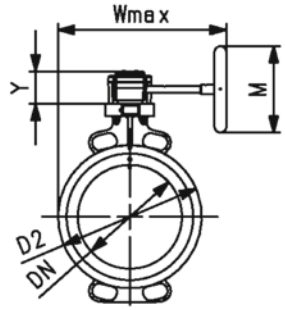


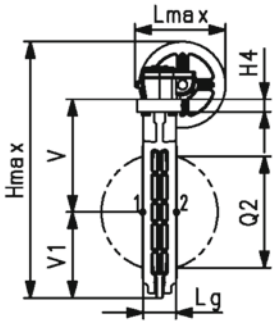
d (mm)	Size (inch)	DN (mm)	PN (bar)	Acc.to ISO 5211	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
355	14	350	10	F14	148808	**199 555 100**	32.600
400	16	400	10	F14	185266	**199 555 101**	48.900

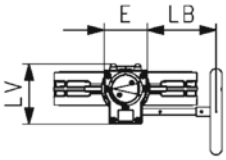
d (mm)	d2 (mm)	U (mm)	V (mm)	H4 (mm)	Hmax (mm)	V1 (mm)	Y (mm)	Q2 (mm)	Lg (mm)	Lmax (mm)	D2 (mm)	k (mm)	E (mm)	Wmax (mm)	da1 (mm)
355	22	200	332	29	686	290	64	331	78	180	517	460	42	530.0	42
400	26	200	367	29	760	329	64	379	102	180	579	515	42	590.5	42

d (mm)	d2	ba1 (mm)	ta1 (mm)	ha1 (mm)
355	M20	12	5	8
400	M24	12	5	8









Wafer-style intermediate installation butterfly valve type 565 manual PVDF/PA-GF
With gear box
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand (lockable hand lever), pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	**199 565 200**	3.0	**199 565 220**	3.1
75	65	2 ½	16	2530	**199 565 201**	3.2	**199 565 221**	3.3
90	80	3	16	4020	**199 565 202**	3.4	**199 565 222**	3.5
110	100	4	16	5850	**199 565 203**	4.2	**199 565 223**	4.3
140	125	5	16	11900	**199 565 204**	4.7	**199 565 224**	5.0
160	150	6	16	18050	**199 565 205**	5.5	**199 565 225**	5.8
225	200	8	10	43667	**199 565 206**	6.7	**199 565 226**	7.2
280	250	10	10	62333	**199 565 207**	12.7	**199 565 227**	13.4
315	300	12	6	94500	**199 565 208**	16.5	**199 565 228**	17.6

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	LB (mm)	LV (mm)	M (mm)	Y (mm)
63	100.0	238.5	303.0	169.0	23	133.5	63.0	43	80	128.0	112.5	160	61.5
75	121.0	246.0	329.0	169.0	23	140.0	82.0	46	80	128.0	112.5	160	61.5
90	138.0	248.5	341.5	169.0	23	146.0	89.0	46	80	128.0	112.5	160	61.5
110	158.5	258.5	377.5	169.0	23	166.5	104.0	52	80	128.0	112.5	160	61.5
140	187.0	272.0	405.0	169.0	23	180.0	118.0	56	80	128.0	112.5	160	61.5
160	213.0	285.5	426.5	169.0	23	189.0	130.5	56	80	128.0	112.5	160	61.5
225	267.0	312.5	475.5	169.0	23	209.5	159.0	60	80	128.0	112.5	160	61.5
280	325.5	360.5	603.0	212.5	23	262.5	195.5	68	100	135.5	130.0	200	68.5
315	380.0	387.5	659.5	212.5	23	284.5	230.5	78	100	135.5	130.0	200	68.5

d (mm)	Q2 (mm)
63	28.5
75	44.0
90	63.5
110	84.0
140	110.5
160	137.5
225	190.5
280	239.0
315	285.5



Wafer-style intermediate installation butterfly valve type 565 PE
With electric actuator 400V
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

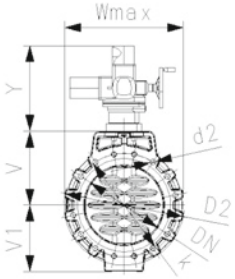
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- For easy installation and removal
- Voltage 400V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

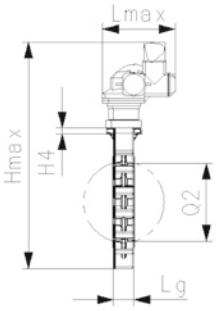
Option:

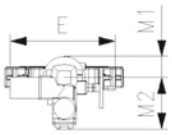
- Individual configuration of the valve possible
- Double sensor for electrical position feedback incl. LED feedback
- Gear box or pneumatic actuators
- Optional accessories: with control AUMA Matic AM (no feedback); with control AUMA Matic AM (feedback)

Note:

For some material combination (e.g. valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Acc.to ISO 5211	EPDM Code	Weight (kg)
355	14	350	10	148808	F14	**199 555 400**	68.100
400	16	400	10	185266	F14	**199 555 401**	93.400

d (mm)	d2 (mm)	U (mm)	V (mm)	H4 (mm)	Hmax (mm)	V1 (mm)	Y (mm)	Q2 (mm)	Lg (mm)	Lmax (mm)	D2 (mm)	k (mm)	M1 (mm)	M2 (mm)	E (mm)
355	22	180	332	29	1047	290	425	331	78	521.8	517	460	253.8	268	360.0
400	26	180	367	29	1116	329	420	379	102	521.8	579	515	253.8	268	367.5

d (mm)	Wmax (mm)	d2	ba1 (mm)	ta1 (mm)	ha1 (mm)
355	530.0	M20	12	5	8
400	590.5	M24	12	5	8



Wafer-style intermediate installation butterfly valve type 565 PE
With electric actuator 240V
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

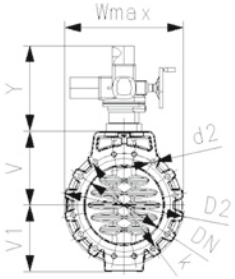
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- For easy installation and removal
- Voltage 240V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

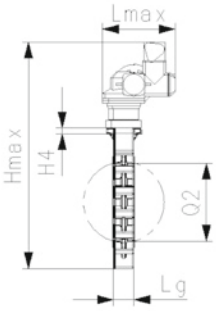
Option:

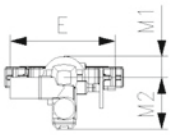
- Individual configuration of the valve possible
- Double sensor for electrical position feedback incl. LED feedback
- Gear box or pneumatic actuators
- Optional accessories: with control AUMA Matic AM (no feedback); with control AUMA Matic AM (feedback)

Note:

For some material combination (e.g. valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Acc.to ISO 5211	EPDM Code	Weight (kg)
355	14	350	10	148808	F14	**199 555 300**	68.100
400	16	400	10	185266	F14	**199 555 301**	93.400

d (mm)	d2 (mm)	U (mm)	V (mm)	H4 (mm)	Hmax (mm)	V1 (mm)	Y (mm)	Q2 (mm)	Lg (mm)	Lmax (mm)	D2 (mm)	k (mm)	M1 (mm)	M2 (mm)	E (mm)
355	22	180	332	29	1047	290	425	331	78	521.8	517	460	253.8	268	360.0
400	26	180	367	29	1116	329	420	379	102	521.8	579	515	253.8	268	367.5

d (mm)	Wmax (mm)	d2	ba1 (mm)	ta1 (mm)	ha1 (mm)
355	530.0	M20	12	5	8
400	590.5	M24	12	5	8



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With electric actuator 230V
Without manual override
Flange standard metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

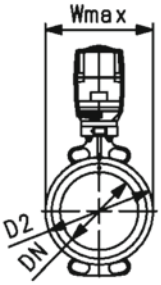
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

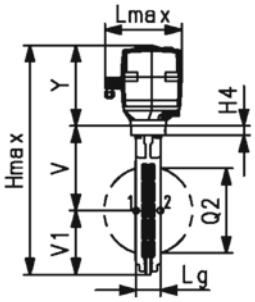
Option:

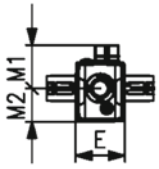
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	EA45	**199 565 300**	3.3	**199 565 320**	3.4
75	65	2 ½	10	2530	EA120	**199 565 301**	4.6	**199 565 321**	4.7
90	80	3	10	4020	EA120	**199 565 302**	4.7	**199 565 322**	4.8
110	100	4	10	5850	EA120	**199 565 303**	5.6	**199 565 323**	5.8
140	125	5	10	11900	EA120	**199 565 304**	6.1	**199 565 324**	6.4
160	150	6	10	18050	EA250	**199 565 305**	8.7	**199 565 325**	9.0
225	200	8	10	43667	EA250	**199 565 306**	10.0	**199 565 326**	10.5
280	250	10	6	62333	EA250	**199 565 307**	14.5	**199 565 327**	15.2
315	300	12	4	94500	EA250	**199 565 308**	18.2	**199 565 328**	19.4

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	122.5	377.5	190.0	23	133.5	63.0	43	122.5	107.5	83	166.5	28.5
75	121.0	132.5	411.5	190.0	23	140.0	82.0	46	122.5	107.5	83	189.5	44.0
90	138.0	137.5	424.0	190.0	23	146.0	89.0	46	122.5	107.5	83	189.5	63.5
110	158.5	158.5	459.5	190.0	23	166.5	104.0	52	122.5	107.5	83	189.5	84.0
140	187.0	187.0	487.5	190.0	23	180.0	118.0	56	122.5	107.5	83	189.5	110.5
160	213.0	213.0	518.5	190.0	23	189.0	130.5	56	122.5	107.5	83	199.5	137.5
225	267.0	267.0	568.0	190.0	23	209.5	159.0	60	122.5	107.5	83	199.5	190.5
280	325.5	325.5	674.5	190.0	23	262.5	195.5	68	122.5	107.5	83	216.5	239.0
315	380.0	380.0	731.0	190.0	23	284.5	230.5	78	122.5	107.5	83	216.5	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With electric actuator 24V
Without manual override
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

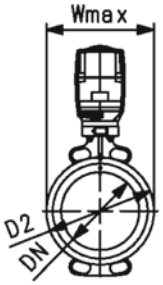
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 24V AC/DC
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

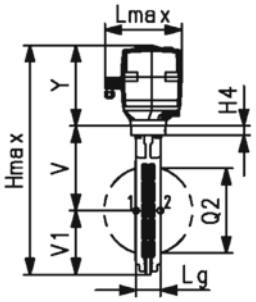
Option:

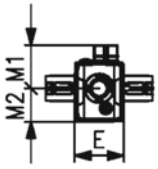
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



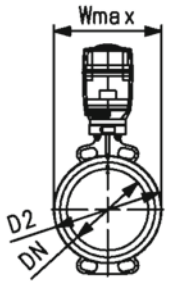


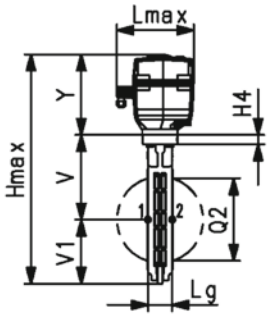


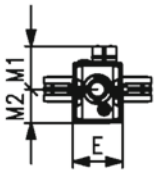
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	EA45	**199 565 400**	3.3	**199 565 420**	3.4
75	65	2 ½	10	2530	EA120	**199 565 401**	4.6	**199 565 421**	4.7
90	80	3	10	4020	EA120	**199 565 402**	4.7	**199 565 422**	4.8
110	100	4	10	5850	EA120	**199 565 403**	5.6	**199 565 423**	5.8
140	125	5	10	11900	EA120	**199 565 404**	6.1	**199 565 424**	6.4
160	150	6	10	18050	EA250	**199 565 405**	8.7	**199 565 425**	9.0
225	200	8	10	43667	EA250	**199 565 406**	10.0	**199 565 426**	10.5
280	250	10	6	62333	EA250	**199 565 407**	14.5	**199 565 427**	15.2
315	300	12	4	94500	EA250	**199 565 408**	18.2	**199 565 428**	19.4

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	122.5	377.5	190	23	133.5	63.0	43	122.5	107.5	83	166.5	28.5
75	121.0	132.5	411.5	190	23	140.0	82.0	46	122.5	107.5	83	189.5	44.0
90	138.0	137.5	424.0	190	23	146.0	89.0	46	122.5	107.5	83	189.5	63.5
110	158.5	158.5	459.5	190	23	166.5	104.0	52	122.5	107.5	83	189.5	84.0
140	187.0	187.0	487.5	190	23	180.0	118.0	56	122.5	107.5	83	189.5	110.5
160	213.0	213.0	518.5	190	23	189.0	130.5	56	122.5	107.5	83	199.5	137.5
225	267.0	267.0	568.0	190	23	209.5	159.0	60	122.5	107.5	83	199.5	190.5
280	325.5	325.5	674.5	190	23	262.5	195.5	68	122.5	107.5	83	216.5	239.0
315	380.0	380.0	731.0	190	23	284.5	230.5	78	122.5	107.5	83	216.5	285.5









Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
Smart electric actuator 230V
Without manual override
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Connectivity via NFC and Wi-Fi Direct ensuring control, identification and visibility without opening the case
- Most relevant asset data visualized in the app
- Connection and control via app possible
- LED stripe for visual open/close 360° feedback
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

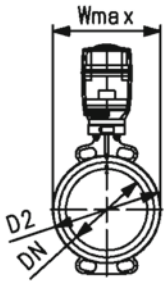
Note:

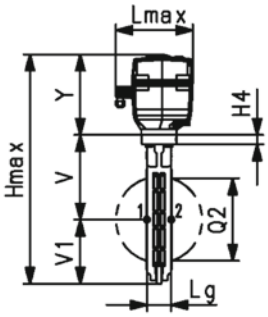
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

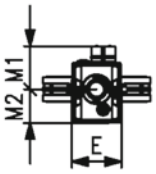
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	dEA45	**199 565 700**	4.3	**199 565 709**	4.4
75	65	2 ½	10	2530	dEA120	**199 565 701**	4.6	**199 565 710**	4.7
90	80	3	10	4020	dEA120	**199 565 702**	4.7	**199 565 711**	4.8
110	100	4	10	5850	dEA120	**199 565 703**	5.6	**199 565 712**	5.8
140	125	5	10	11900	dEA120	**199 565 704**	6.1	**199 565 713**	6.4
160	150	6	10	18050	dEA250	**199 565 705**	8.7	**199 565 714**	9.0
225	200	8	10	43667	dEA250	**199 565 706**	10.0	**199 565 715**	10.5
280	250	10	6	62333	dEA250	**199 565 707**	14.5	**199 565 716**	15.2
315	300	12	4	94500	dEA250	**199 565 708**	18.2	**199 565 717**	19.4

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	122.5	377.5	190	23	133.5	63.0	43	122.5	107.5	83	166.5	28.5
75	121.0	132.5	411.5	190	23	140.0	82.0	46	122.5	107.5	83	189.5	44.0
90	138.0	137.5	424.0	190	23	146.0	89.0	46	122.5	107.5	83	189.5	63.5
110	158.5	158.5	459.5	190	23	166.5	104.0	52	122.5	107.5	83	189.5	84.0
140	187.0	187.0	487.5	190	23	180.0	118.0	56	122.5	107.5	83	189.5	110.5
160	213.0	213.0	518.5	190	23	189.0	130.5	56	122.5	107.5	83	199.5	137.5
225	267.0	267.0	568.0	190	23	209.5	159.0	60	122.5	107.5	83	199.5	190.5
280	325.5	325.5	674.5	190	23	262.5	195.5	68	122.5	107.5	83	216.5	239.0
315	380.0	380.0	731.0	190	23	284.5	230.5	78	122.5	107.5	83	216.5	285.5









Wafer-style intermediate installation butterfly valve type 565 electric PVDF/PA-GF
Smart electric actuator 24V without manual override
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 24V AC/DC
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Connectivity via NFC and Wi-Fi Direct ensuring control, identification and visibility without opening the case
- Most relevant asset data visualized in the app
- Connection and control via app possible
- LED stripe for visual open/close 360° feedback
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1445	dEA45	**199 565 718**	4.3	**199 565 727**	4.4
75	2 ½	65	10	2530	dEA120	**199 565 719**	4.6	**199 565 728**	4.7
90	3	80	10	4020	dEA120	**199 565 720**	4.7	**199 565 729**	4.8
110	4	100	10	5850	dEA120	**199 565 721**	5.6	**199 565 730**	5.8
140	5	125	10	11900	dEA120	**199 565 722**	6.1	**199 565 731**	6.4
160	6	150	10	18050	dEA250	**199 565 723**	8.7	**199 565 732**	9.0
225	8	200	10	43667	dEA250	**199 565 724**	10.0	**199 565 733**	10.5
280	10	250	6	62333	dEA250	**199 565 725**	14.5	**199 565 734**	15.2
315	12	300	4	94500	dEA250	**199 565 726**	18.2	**199 565 735**	19.4

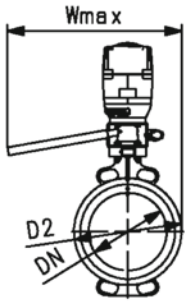
d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M1 (mm)	M2 (mm)	Y (mm)	Q2 (mm)
63	100.0	122.5	377.5	190	23	133.5	63.0	43	122.5	107.5	83	166.5	28.5
75	121.0	132.5	411.5	190	23	140.0	82.0	46	122.5	107.5	83	189.5	44.0
90	138.0	137.5	424.0	190	23	146.0	89.0	46	122.5	107.5	83	189.5	63.5
110	158.5	158.5	459.5	190	23	166.5	104.0	52	122.5	107.5	83	189.5	84.0
140	187.0	187.0	487.5	190	23	180.0	118.0	56	122.5	107.5	83	189.5	110.5
160	213.0	213.0	518.5	190	23	189.0	130.5	56	122.5	107.5	83	199.5	137.5
225	267.0	267.0	568.0	190	23	209.5	159.0	60	122.5	107.5	83	199.5	190.5
280	325.5	325.5	674.5	190	23	262.5	195.5	68	122.5	107.5	83	216.5	239.0
315	380.0	380.0	731.0	190	23	284.5	230.5	78	122.5	107.5	83	216.5	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With electric actuator 230V
With manual override
Flange standard metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- With addtional manual override between valve and actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

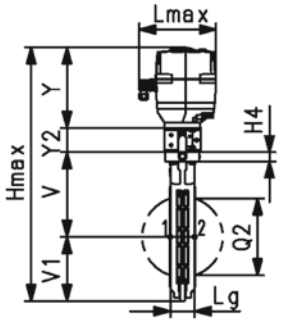


Option:

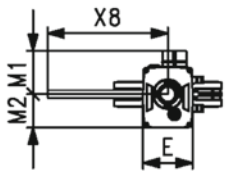
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1445	EA120	**199 565 340**	5.5	**199 565 360**	5.6
75	2 ½	65	10	2530	EA120	**199 565 341**	5.8	**199 565 361**	5.9
90	3	80	10	4020	EA120	**199 565 342**	5.9	**199 565 362**	6.0
110	4	100	10	5850	EA120	**199 565 343**	6.6	**199 565 363**	6.8
140	5	125	10	11900	EA120	**199 565 344**	7.1	**199 565 364**	7.4
160	6	150	10	18050	EA250	**199 565 345**	9.7	**199 565 365**	10.0
225	8	200	10	43667	EA250	**199 565 346**	11.0	**199 565 366**	11.5



d (mm)	Size (inch)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M1 (mm)	M2 (mm)	X8 (mm)
63	2	100.0	385.5	96.0	190	23	133.5	63.0	43	122.5	107.5	83	297.5
75	2 ½	121.0	385.5	96.0	190	23	140.0	82.0	46	122.5	107.5	83	297.5
90	3	138.0	385.5	96.0	190	23	146.0	89.0	46	122.5	107.5	83	297.5
110	4	158.5	385.5	96.0	190	23	166.5	104.0	52	122.5	107.5	83	297.5
140	5	187.0	385.5	189.5	190	23	180.0	118.0	56	122.5	107.5	83	297.5
160	6	213.0	385.5	106.0	190	23	189.0	130.5	56	122.5	107.5	83	297.5
225	8	267.0	385.5	106.0	190	23	209.5	159.0	60	122.5	107.5	83	297.5

d (mm)	Size (inch)	Y (mm)	Y2 (mm)	Q2 (mm)
63	2	189.5	60	28.5
75	2 ½	189.5	60	44.0
90	3	189.5	60	63.5
110	4	189.5	60	84.0
140	5	189.5	60	110.5
160	6	199.5	60	137.5
225	8	199.5	60	190.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With electric actuator 24V
With manual override
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

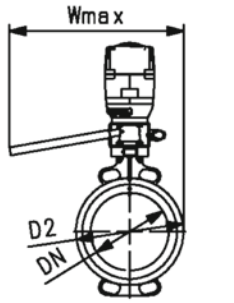
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 24V AC/DC
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- With addtional manual override between valve and actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

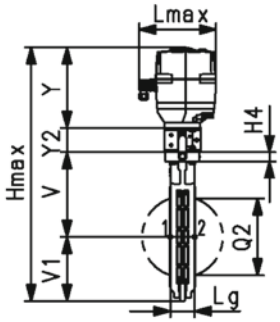
Option:

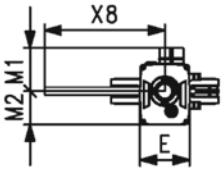
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1445	EA120	**199 565 440**	5.5	**199 565 460**	5.6
75	2 ½	65	10	2530	EA120	**199 565 441**	5.8	**199 565 461**	5.9
90	3	80	10	4020	EA120	**199 565 442**	5.9	**199 565 462**	6.0
110	4	100	10	5850	EA120	**199 565 443**	6.6	**199 565 463**	6.8
140	5	125	10	11900	EA120	**199 565 444**	7.1	**199 565 464**	7.4
160	6	150	10	18050	EA250	**199 565 445**	9.7	**199 565 465**	10.0
225	8	200	10	43667	EA250	**199 565 446**	11.0	**199 565 466**	11.5

d (mm)	Size (inch)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M1 (mm)	M2 (mm)	X8 (mm)
63	2	100.0	385.5	96.0	190	23	133.5	63.0	43	122.5	107.5	83	297.5
75	2 ½	121.0	385.5	96.0	190	23	140.0	82.0	46	122.5	107.5	83	297.5
90	3	138.0	385.5	96.0	190	23	146.0	89.0	46	122.5	107.5	83	297.5
110	4	158.5	385.5	96.0	190	23	166.5	104.0	52	122.5	107.5	83	297.5
140	5	187.0	385.5	189.5	190	23	180.0	118.0	56	122.5	107.5	83	297.5
160	6	213.0	385.5	106.0	190	23	189.0	130.5	56	122.5	107.5	83	297.5
225	8	267.0	385.5	106.0	190	23	209.5	159.0	60	122.5	107.5	83	297.5

d (mm)	Size (inch)	Y (mm)	Y2 (mm)	Q2 (mm)
63	2	189.5	60	28.5
75	2 ½	189.5	60	44.0
90	3	189.5	60	63.5
110	4	189.5	60	84.0
140	5	189.5	60	110.5
160	6	199.5	60	137.5
225	8	199.5	60	190.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

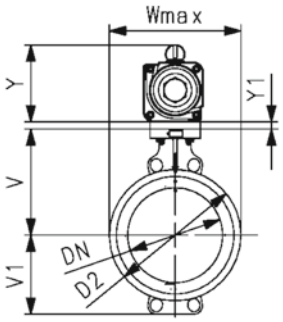
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

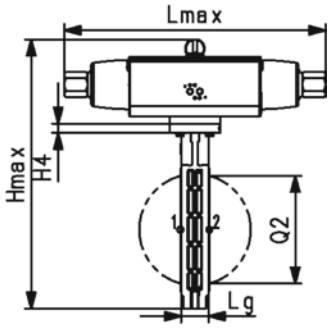
Option:

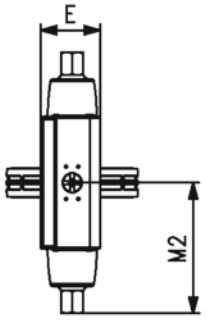
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1445	PA30	**199 565 500**	3.2	**199 565 520**	3.3
75	2 ½	65	10	2530	PA30	**199 565 501**	3.5	**199 565 521**	3.6
90	3	80	10	4020	PA35	**199 565 502**	4.3	**199 565 522**	4.4
110	4	100	10	5850	PA40	**199 565 503**	5.9	**199 565 523**	6.1
140	5	125	10	11900	PA45	**199 565 504**	7.9	**199 565 524**	8.2
160	6	150	10	18050	PA50	**199 565 505**	10.7	**199 565 525**	11.0
225	8	200	10	43667	PA60	**199 565 506**	16.4	**199 565 526**	16.9
280	10	250	10	62333	PA65	**199 565 507**	25.5	**199 565 527**	26.2
315	12	300	6	94500	PA70	**199 565 508**	32.1	**199 565 528**	33.3

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100.0	118.5	309.5	274.5	23	133.5	63.0	43	70.5	137.2	98.5	15	28.5
75	121.0	132.5	335.5	275.5	23	140.0	82.0	46	70.5	137.2	98.5	15	44.0
90	138.0	138.0	361.0	325.5	23	146.0	89.0	46	83.5	162.6	111.5	15	63.5
110	158.5	158.5	385.5	359.5	23	166.5	104.0	52	87.0	179.8	115.0	0	84.0
140	187.0	187.0	447.5	418.0	23	180.0	118.0	56	107.5	209.0	149.5	0	110.5
160	213.0	213.0	472.5	434.0	23	189.0	130.5	56	111.5	217.0	153.5	0	137.5
225	267.0	267.0	545.5	547.5	23	209.5	159.0	60	135.0	273.6	177.0	0	190.5
280	325.5	325.5	666.0	681.0	23	262.5	195.5	68	148.0	323.0	190.0	18	239.0
315	380.0	380.0	743.0	681.0	23	284.5	230.5	78	168.0	340.5	210.5	18	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With pneumatic actuator - fail safe to open (FO)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

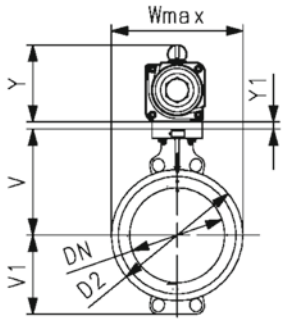
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

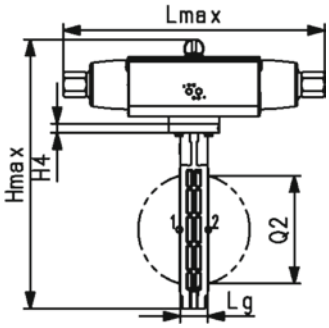
Option:

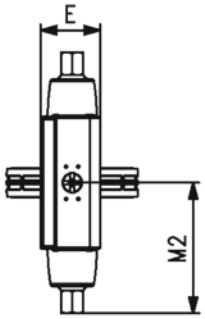
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1445	PA30	**199 565 540**	3.2	**199 565 560**	3.3
75	2 ½	65	10	2530	PA30	**199 565 541**	3.5	**199 565 561**	3.6
90	3	80	10	4020	PA35	**199 565 542**	4.3	**199 565 562**	4.4
110	4	100	10	5850	PA40	**199 565 543**	5.9	**199 565 563**	6.1
140	5	125	10	11900	PA45	**199 565 544**	7.9	**199 565 564**	8.2
160	6	150	10	18050	PA50	**199 565 545**	10.7	**199 565 565**	11.0
225	8	200	10	43667	PA60	**199 565 546**	14.8	**199 565 566**	15.3
280	10	250	10	62333	PA65	**199 565 547**	28.4	**199 565 567**	29.1
315	12	300	6	94500	PA70	**199 565 548**	32.1	**199 565 568**	33.3

d (mm)	Size (inch)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)
63	2	100.0	118.5	309.5	274.5	23	133.5	63.0	43	70.5	137.5	98.5	15
75	2 ½	121.0	132.5	335.5	275.5	23	140.0	82.0	46	70.5	137.5	98.5	15
90	3	138.0	138.0	361.0	325.5	23	146.0	89.0	46	83.5	163.0	111.5	15
110	4	158.5	158.5	385.5	359.5	23	166.5	104.0	52	87.0	180.0	115.0	0
140	5	187.0	187.0	447.5	418.0	23	180.0	118.0	56	107.5	209.0	149.5	0
160	6	213.0	213.0	472.5	434.0	23	189.0	130.5	56	111.5	217.0	153.5	0
225	8	267.0	267.0	545.5	547.5	23	209.5	159.0	60	135.0	274.0	177.0	0
280	10	325.5	325.5	666.0	681.0	23	262.5	195.5	68	148.0	323.0	190.0	18
315	12	380.0	380.0	743.0	681.0	23	284.5	230.5	78	168.0	340.5	210.5	18

d (mm)	Size (inch)	Q2 (mm)
63	2	28.5
75	2 ½	44.0
90	3	63.5
110	4	84.0
140	5	110.5
160	6	137.5
225	8	190.5
280	10	239.0
315	12	285.5



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With pneumatic actuator - double acting (DA)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

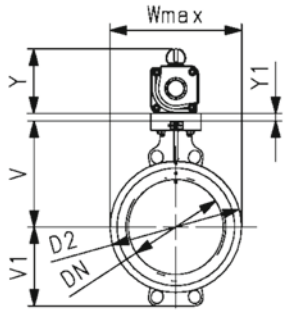
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory

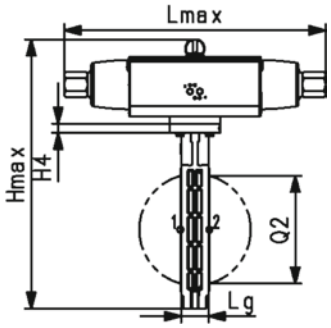
Option:

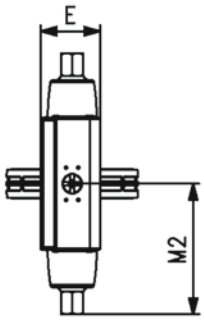
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1445	PA35	**199 565 600**	2.6	**199 565 620**	2.7
75	2 ½	65	10	2530	PA35	**199 565 601**	2.9	**199 565 621**	3.0
90	3	80	10	4020	PA40	**199 565 602**	3.4	**199 565 622**	3.5
110	4	100	10	5850	PA45	**199 565 603**	4.5	**199 565 623**	4.7
140	5	125	10	11900	PA45	**199 565 604**	5.1	**199 565 624**	5.4
160	6	150	10	18050	PA55	**199 565 605**	7.7	**199 565 625**	8.0
225	8	200	10	43667	PA60	**199 565 606**	10.7	**199 565 626**	11.2
280	10	250	10	62333	PA65	**199 565 607**	16.9	**199 565 627**	17.6
315	12	300	6	94500	PA70	**199 565 608**	22.4	**199 565 628**	23.6

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100.0	118.5	303.5	196.5	23	133.5	63.0	43	64.5	98.5	92.5	15	28.5
75	121.0	132.5	329.5	196.5	23	140.0	82.0	46	64.5	98.5	92.5	15	44.0
90	138.0	138.0	348.0	206.0	23	146.0	89.0	46	70.5	103.0	98.5	15	63.5
110	158.5	158.5	381.5	242.0	23	166.5	104.0	52	83.5	121.0	111.5	0	84.0
140	187.0	187.0	409.0	242.0	23	180.0	118.0	56	83.5	121.0	111.5	0	110.5
160	213.0	213.0	468.5	290.5	23	189.0	130.5	56	107.5	145.5	149.5	0	137.5
225	267.0	267.0	522.0	314.0	23	209.5	159.0	60	111.5	157.0	153.5	0	190.5
280	325.5	325.5	636.0	340.0	23	262.5	195.5	68	118.0	170.0	160.0	18	239.0
315	380.0	380.0	709.5	382.5	23	284.5	230.5	78	135.0	191.5	177.0	18	285.5



Wafer-style intermediate installation butterfly valve type 565 PE
With pneumatic actuator - double acting (DA)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

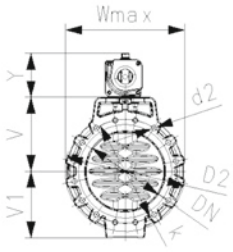
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- For easy installation and removal
- Control time 0-90° 5-6s
- Control pressure 5.6 bar
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

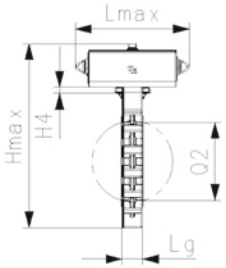
- Individual configuration of the valve possible
- Double sensor for electrical position feedback incl. LED feedback
- Gear box or electric actuators

Note:

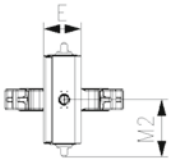
For some material combination (e.g. valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Acc.to ISO 5211	EPDM Code	Weight (kg)
355	350	14	10	148808	F14	**199 555 600**	50.600
400	400	16	10	185266	F14	**199 555 601**	72.900



d (mm)	DN (mm)	d2 (mm)	U (mm)	V (mm)	H4 (mm)	Hmax (mm)	V1 (mm)	Y (mm)	Q2 (mm)	Lg (mm)	Lmax (mm)	D2 (mm)	k (mm)	M1 (mm)	M2 (mm)
355	350	22	180	332	29	820	290	198	331	78	479.4	517	460	239.7	239.7
400	400	26	180	367	29	912	329	216	379	102	567.1	579	515	283.6	283.6



d (mm)	DN (mm)	E (mm)	Wmax (mm)	d2
355	350	168	530.0	M20
400	400	186	590.5	M24



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With plastic pneumatic actuator - fail safe to close (FC)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

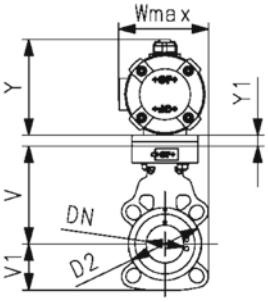
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

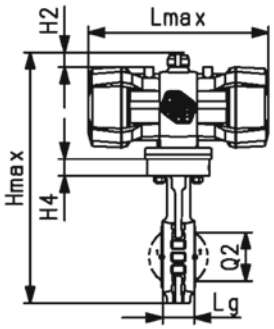
Option:

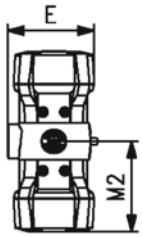
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1445	PPA40	**199 565 650**	2.922	**199 565 660**	2.922
75	2 ½	65	10	2530	PPA80	**199 565 651**	4.905	**199 565 661**	4.905
90	3	80	10	4020	PPA80	**199 565 652**	5.075	**199 565 662**	5.075

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H2 (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100	121.2	341.2	245.5	20	23	133.5	63	43	119.5	122.8	111	15	28.5
75	121	140.0	372.2	343.0	20	23	140.0	82	46	141.5	171.5	131	0	44.0
90	138	142.4	384.9	343.0	20	23	146.0	89	46	141.5	171.5	131	0	63.5



Wafer-style intermediate installation butterfly valve type 565 PE
With pneumatic actuator - fail safe to close (FC)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

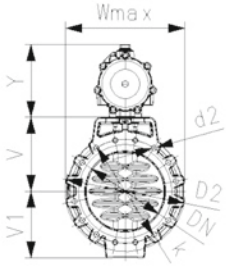
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- For easy installation and removal
- Control time 0-90° 5-6s
- Control pressure 5.6 bar
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

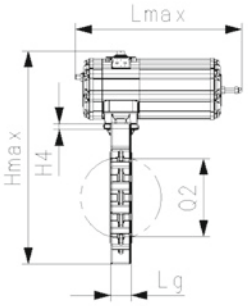
- Individual configuration of the valve possible
- Gear box or electric actuators
- Double sensor for electrical position feedback incl. LED feedback

Note:

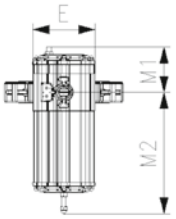
For some material combination (e.g. valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Acc.to ISO 5211	EPDM Code	Weight (kg)
355	14	350	10	148808	F14	**199 555 500**	75.200
400	16	400	10	185266	F14	**199 555 501**	123.500



d (mm)	d2 (mm)	U (mm)	V (mm)	H4 (mm)	Hmax (mm)	V1 (mm)	Y (mm)	Q2 (mm)	Lg (mm)	Lmax (mm)	D2 (mm)	k (mm)	M1 (mm)	M2 (mm)
355	22	180	332	23	859.7	290	237.7	331	78	828.1	517	460	414.1	209
400	26	180	367	23	1055.0	329	359.0	379	102	825.1	579	515	600.4	217



d (mm)	E (mm)	Wmax (mm)	d2
355	207.7	530.0	M20
400	311.0	590.5	M24



Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With plastic pneumatic actuator - fail safe to open (FO)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

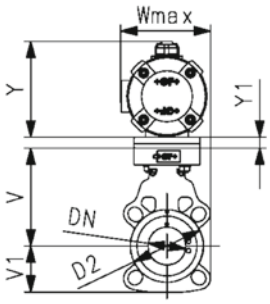
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

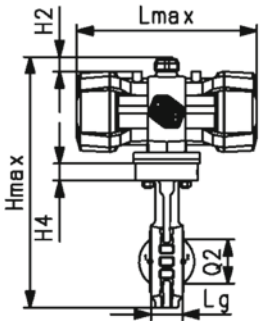
Option:

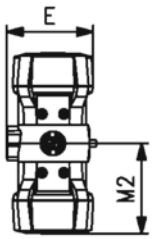
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1445	PPA40	**199 565 670**	2.922	**199 565 680**	2.922
75	2 ½	65	10	2530	PPA80	**199 565 671**	4.905	**199 565 681**	4.905
90	3	80	10	4020	PPA80	**199 565 672**	5.075	**199 565 682**	5.075

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H2 (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100	121.2	341.2	245.5	20	23	133.5	63	43	119.5	122.8	111	15	28.5
75	121	140.0	372.2	343.0	20	23	140.0	82	46	141.5	171.5	131	0	44.0
90	138	142.4	384.9	343.0	20	23	146.0	89	46	141.5	171.5	131	0	63.5



Wafer-style intermediate installation butterfly valve type 565 PE
With pneumatic actuator - fail safe to close (FC)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

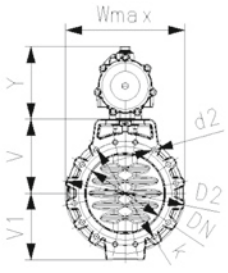
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- For easy installation and removal
- Control time 0-90° 5-6s
- Control pressure 5.6 bar
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

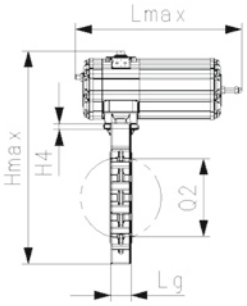
- Individual configuration of the valve possible
- Gear box or electric actuators
- Double sensor for electrical position feedback incl. LED feedback

Note:

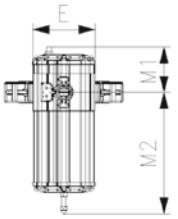
For some material combination (e.g. valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Acc.to ISO 5211	EPDM Code	Weight (kg)
355	14	350	10	148808	F14	**199 555 500**	75.200
400	16	400	10	185266	F14	**199 555 501**	123.500

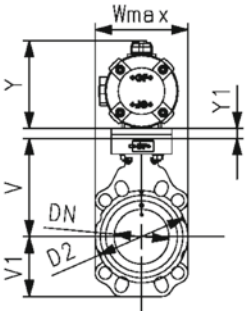


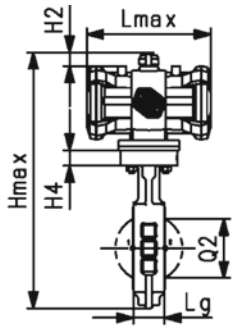
d (mm)	d2 (mm)	U (mm)	V (mm)	H4 (mm)	Hmax (mm)	V1 (mm)	Y (mm)	Q2 (mm)	Lg (mm)	Lmax (mm)	D2 (mm)	k (mm)	M1 (mm)	M2 (mm)
355	22	180	332	23	859.7	290	237.7	331	78	828.1	517	460	414.1	209
400	26	180	367	23	1055.0	329	359.0	379	102	825.1	579	515	600.4	217

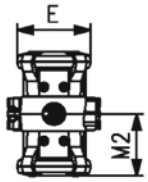


d (mm)	E (mm)	Wmax (mm)	d2
355	207.7	530.0	M20
400	311.0	590.5	M24









Wafer-style intermediate installation butterfly valve type 565 PVDF/PA-GF
With plastic pneumatic actuator - double acting (DA)
Wafer style metric/ANSI/BS/JIS
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	1445	PPA40	**199 565 630**	2.396	**199 565 690**	2.396
75	2 ½	65	10	2530	PPA40	**199 565 631**	2.664	**199 565 691**	2.664
90	3	80	10	4020	PPA40	**199 565 632**	2.854	**199 565 692**	2.854

d (mm)	D2 (mm)	Wmax (mm)	Hmax (mm)	Lmax (mm)	H2 (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	E (mm)	M2 (mm)	Y (mm)	Y1 (mm)	Q2 (mm)
63	100	121.2	341.2	183.5	20	23	133.5	63	43.0	119.5	91.8	111	15	28.5
75	121	132.5	367.1	183.5	20	23	140.0	82	46.0	119.5	91.8	111	15	44.0
90	138	138.0	379.8	183.5	20	23	146.0	89	46.0	119.5	91.8	111	15	63.5

Lugstyle butterfly valves type 565



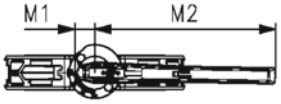
Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With hand lever
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Lockable ergonmic lever
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

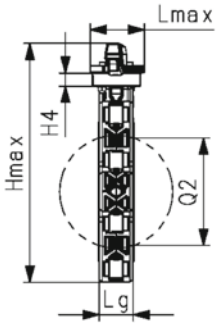
Option:

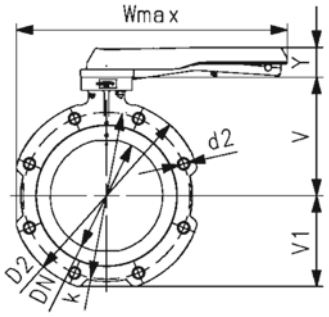
- Individual configuration of the valve possible
- Pneumatic or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback



Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com





d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	**199 575 000**	1.308	**199 575 020**	1.377
75	65	2 ½	16	2530	**199 575 001**	1.542	**199 575 021**	1.644
90	80	3	16	4020	**199 575 002**	1.712	**199 575 022**	1.835
110	100	4	16	5850	**199 575 003**	4.102	**199 575 023**	2.693
140	125	5	16	11900	**199 575 004**	3.086	**199 575 024**	3.346
160	150	6	16	18050	**199 575 005**	4.029	**199 575 025**	4.347
225	200	8	10	43667	**199 575 006**	5.276	**199 575 026**	5.732

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	M1 (mm)
63	50	256.4	96	274.5	133.3	70.1	53	43	28.3	125	M16	155	23	35.5
75	65	273.7	96	285.0	139.9	80.8	53	46	43.8	145	M16	175	23	35.5
90	80	289.9	96	294.5	145.6	91.3	53	46	63.5	160	M16	190	23	35.5
110	100	325.6	96	360.0	166.4	106.2	53	52	83.7	180	M16	221	23	35.5
140	125	353.3	96	374.0	180.0	120.3	53	56	110.4	210	M16	250	23	35.5
160	150	374.4	96	454.5	189.0	132.4	53	56	137.3	240	M20	277	23	35.5
225	200	422.8	96	482.5	209.5	160.3	53	60	191.1	295	M20	337	23	35.5

d (mm)	DN (mm)	M2 (mm)
63	50	204.5
75	65	204.5
90	80	204.5
110	100	254.5
140	125	254.5
160	150	319.5
225	200	319.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With electric actuator 230V with addtional manual override
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

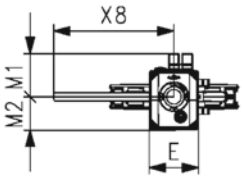
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- With addtional manual override between valve and actuator
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

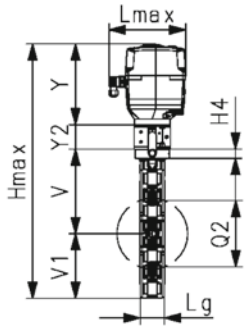
Option:

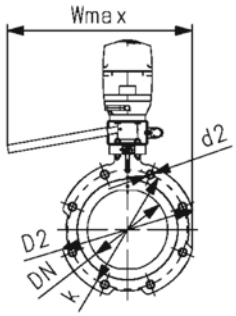
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	EA120	**199 575 340**	5.500	**199 575 360**	5.600
75	65	2 ½	10	2530	EA120	**199 575 341**	5.800	**199 575 361**	5.900
90	80	3	10	4020	EA120	**199 575 342**	5.900	**199 575 362**	6.000
110	100	4	10	5850	EA120	**199 575 343**	6.600	**199 575 363**	6.800
140	125	5	10	11900	EA120	**199 575 344**	7.100	**199 575 364**	7.400
160	150	6	10	18050	EA250	**199 575 345**	9.700	**199 575 365**	10.000
225	200	8	10	43667	EA250	**199 575 346**	11.000	**199 575 366**	11.500

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	429.6	190	385.0	133.3	70.1	189.3	43	28.3	125	M16	155	23	122.3
75	65	470.0	190	385.0	139.9	80.8	189.3	46	43.8	145	M16	175	23	122.3
90	80	486.2	190	387.5	145.6	91.3	189.3	46	63.5	160	M16	190	23	122.3
110	100	521.9	190	403.0	166.4	106.2	189.3	52	83.7	180	M16	221	23	122.3
140	125	549.6	190	417.0	180.0	120.3	189.3	56	110.4	210	M16	250	23	122.3
160	150	580.7	190	429.0	189.0	132.4	199.3	56	137.3	240	M20	277	23	122.3
225	200	629.1	190	457.0	209.5	160.3	199.3	60	191.1	295	M20	337	23	122.3

d (mm)	DN (mm)	M1 (mm)	M2 (mm)	X8 (mm)	Y2 (mm)
63	50	107.3	82.7	297.5	60
75	65	107.3	82.7	297.5	60
90	80	107.3	82.7	297.5	60
110	100	107.3	82.7	297.5	60
140	125	107.3	82.7	297.5	60
160	150	107.3	82.7	297.5	60
225	200	107.3	82.7	297.5	60



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With electric actuator 230V
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

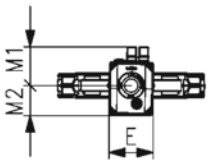
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

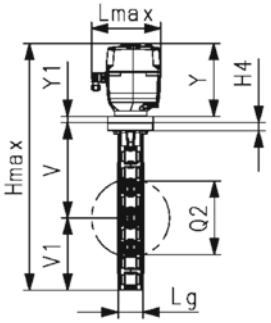
Option:

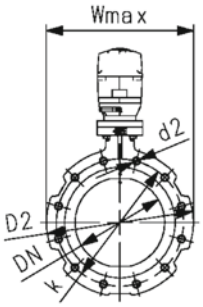
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	EA45	**199 575 300**	3.300	**199 575 320**	3.400
75	65	2 ½	10	2530	EA120	**199 575 301**	4.600	**199 575 321**	4.700
90	80	3	10	4020	EA120	**199 575 302**	4.700	**199 575 322**	4.800
110	100	4	10	5850	EA120	**199 575 303**	5.600	**199 575 323**	5.800
140	125	5	10	11900	EA120	**199 575 304**	6.100	**199 575 324**	6.400
160	150	6	10	18050	EA250	**199 575 305**	8.700	**199 575 325**	9.000
225	200	8	10	43667	EA250	**199 575 306**	10.000	**199 575 326**	10.500
280	250	10	6	62333	EA250	**199 575 307**	14.500	**199 575 327**	15.200
315	300	12	4	94500	EA250	**199 575 308**	18.200	**199 575 328**	19.400

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	384.6	190	140	133.3	70.1	166.2	43	28.3	125	M16	155	23	122.3
75	65	410.0	190	161	139.9	80.8	189.3	46	43.8	145	M16	175	23	122.3
90	80	426.2	190	180	145.6	91.3	189.3	46	63.5	160	M16	190	23	122.3
110	100	461.9	190	211	166.4	106.2	189.3	52	83.7	180	M16	221	23	122.3
140	125	489.6	190	239	180.0	120.3	189.3	56	110.4	210	M16	250	23	122.3
160	150	520.7	190	263	189.0	132.4	199.3	56	137.3	240	M20	277	23	122.3
225	200	569.1	190	319	209.5	160.3	199.3	60	191.1	295	M20	337	23	122.3
280	250	677.9	190	403	262.5	199.1	199.3	68	238.9	350	M20	403	23	122.3
315	300	736.1	190	482	284.3	235.5	199.3	78	285.5	400	M20	479	23	122.3

d (mm)	DN (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63	50	15	107.3	82.7
75	65		107.3	82.7
90	80		107.3	82.7
110	100		107.3	82.7
140	125		107.3	82.7
160	150		107.3	82.7
225	200		107.3	82.7
280	250	17	107.3	82.7
315	300	17	107.3	82.7



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With electric actuator 24V
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

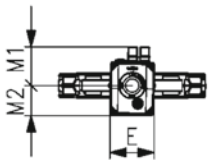
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Voltage 24V AC/DC
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

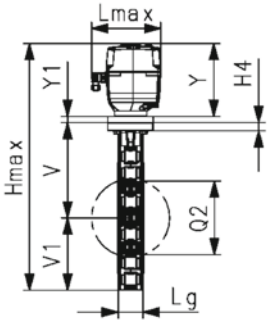
Option:

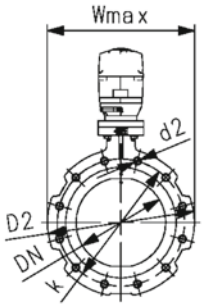
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	EA45	**199 575 400**	3.300	**199 575 420**	3.400
75	65	2 ½	10	2530	EA120	**199 575 401**	4.600	**199 575 421**	4.700
90	80	3	10	4020	EA120	**199 575 402**	4.700	**199 575 422**	4.800
110	100	4	10	5850	EA120	**199 575 403**	5.600	**199 575 423**	5.800
140	125	5	10	11900	EA120	**199 575 404**	6.100	**199 575 424**	6.400
160	150	6	10	18050	EA250	**199 575 405**	8.700	**199 575 425**	9.000
225	200	8	10	43667	EA250	**199 575 406**	10.000	**199 575 426**	10.500
280	250	10	6	62333	EA250	**199 575 407**	14.500	**199 575 427**	15.200
315	300	12	4	94500	EA250	**199 575 408**	18.200	**199 575 428**	19.400

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	384.6	190	140	133.3	70.1	166.2	43	28.3	125	M16	155	23	122.3
75	65	410.0	190	161	139.9	80.8	189.3	46	43.8	145	M16	175	23	122.3
90	80	426.2	190	180	145.6	91.3	189.3	46	63.5	160	M16	190	23	122.3
110	100	461.9	190	211	166.4	106.2	189.3	52	83.7	180	M16	221	23	122.3
140	125	489.6	190	239	180.0	120.3	189.3	56	110.4	210	M16	250	23	122.3
160	150	520.7	190	263	189.0	132.4	199.3	56	137.3	240	M20	277	23	122.3
225	200	569.1	190	319	209.5	160.3	199.3	60	191.1	295	M20	337	23	122.3
280	250	677.9	190	403	262.5	199.1	199.3	68	238.9	350	M20	403	23	122.3
315	300	736.1	190	482	284.3	235.5	199.3	78	285.5	400	M20	479	23	122.3

d (mm)	DN (mm)	Y1 (mm)
63	50	15
75	65	
90	80	
110	100	
140	125	
160	150	
225	200	
280	250	17
315	300	17



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With electric actuator 24V with addtional manual override
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

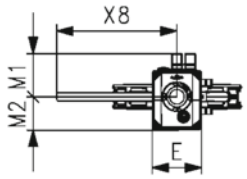
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Voltage 24V AC/DC
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

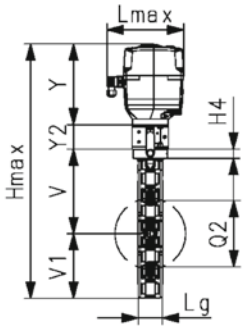
Option:

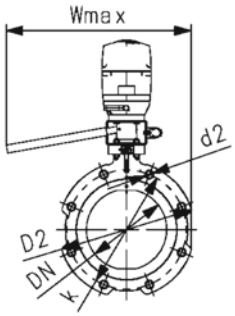
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	EA120	**199 575 440**	5.500	**199 575 460**	5.600
75	65	2 ½	10	2530	EA120	**199 575 441**	5.800	**199 575 461**	5.900
90	80	3	10	4020	EA120	**199 575 442**	5.900	**199 575 462**	6.000
110	100	4	10	5850	EA120	**199 575 443**	6.600	**199 575 463**	6.800
140	125	5	10	11900	EA120	**199 575 444**	7.100	**199 575 464**	7.400
160	150	6	10	18050	EA250	**199 575 445**	9.700	**199 575 465**	10.000
225	200	8	10	43667	EA250	**199 575 446**	11.000	**199 575 466**	11.500

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	429.6	190	385.0	133.3	70.1	189.3	43	28.3	125	M16	155	23	122.3
75	65	470.0	190	385.0	139.9	80.8	189.3	46	43.8	145	M16	175	23	122.3
90	80	486.2	190	387.5	145.6	91.3	189.3	46	63.5	160	M16	190	23	122.3
110	100	521.9	190	403.0	166.4	106.2	189.3	52	83.7	180	M16	221	23	122.3
140	125	549.6	190	417.0	180.0	120.3	189.3	56	110.4	210	M16	250	23	122.3
160	150	580.7	190	429.0	189.0	132.4	199.3	56	137.3	240	M20	277	23	122.3
225	200	629.1	190	457.0	209.5	160.3	199.3	60	191.1	295	M20	337	23	122.3

d (mm)	DN (mm)	M1 (mm)	M2 (mm)	X8 (mm)	Y2 (mm)
63	50	107.3	82.7	297.5	60
75	65	107.3	82.7	297.5	60
90	80	107.3	82.7	297.5	60
110	100	107.3	82.7	297.5	60
140	125	107.3	82.7	297.5	60
160	150	107.3	82.7	297.5	60
225	200	107.3	82.7	297.5	60



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

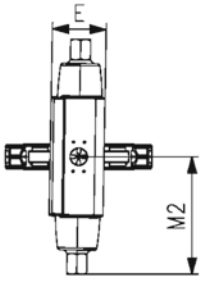
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

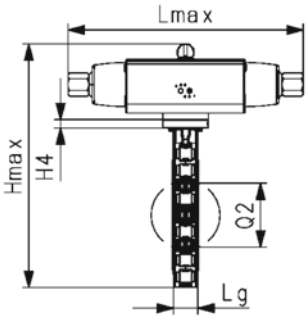
Option:

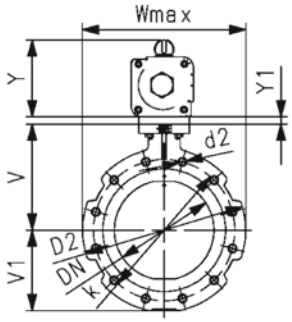
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	PA30	**199 575 500**	3.200	**199 575 520**	3.300
75	65	2 ½	10	2530	PA30	**199 575 501**	3.500	**199 575 521**	3.600
90	80	3	10	4020	PA35	**199 575 502**	4.300	**199 575 522**	4.400
110	100	4	10	5850	PA40	**199 575 503**	5.900	**199 575 523**	6.100
140	125	5	10	11900	PA45	**199 575 504**	7.900	**199 575 524**	8.200
160	150	6	10	18050	PA50	**199 575 505**	10.700	**199 575 525**	11.000
225	200	8	10	43667	PA60	**199 575 506**	16.400	**199 575 526**	16.900
280	250	10	10	62333	PA65	**199 575 507**	25.500	**199 575 527**	26.200
315	300	12	6	94500	PA70	**199 575 508**	32.100	**199 575 528**	33.300

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	316.6	274.4	140	133.3	70.1	98.2	43	28.3	125	M16	155	23	70.4
75	65	333.9	274.4	161	139.9	80.8	98.2	46	43.8	145	M16	175	23	70.4
90	80	363.0	325.2	180	145.6	91.3	111.1	46	63.5	160	M16	190	23	83.3
110	100	387.4	359.6	211	166.4	106.2	114.8	52	83.7	180	M16	221	23	87.0
140	125	449.8	418.0	239	180.0	120.3	149.5	56	110.4	210	M16	250	23	107.5
160	150	474.5	434.0	263	189.0	132.4	153.1	56	137.3	240	M20	277	23	111.1
225	200	546.8	547.3	319	209.5	160.3	177.0	60	191.1	295	M20	337	23	135.0
280	250	668.6	646.0	403	262.5	199.1	190.0	68	238.9	350	M20	403	23	148.0
315	300	746.9	681.0	482	284.3	235.5	210.1	78	285.5	400	M20	479	23	168.0

d (mm)	DN (mm)	Y1 (mm)	M2 (mm)
63	50	15	137.2
75	65	15	137.2
90	80	15	162.6
110	100		179.8
140	125		209.0
160	150		217.0
225	200		274.0
280	250	17	323.0
315	300	17	340.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to open (FO)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

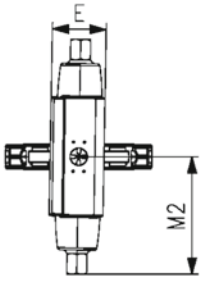
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

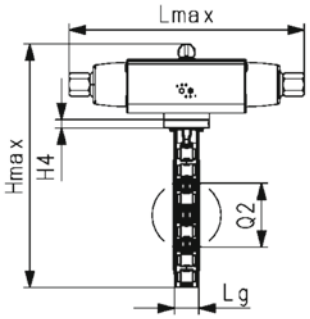
Option:

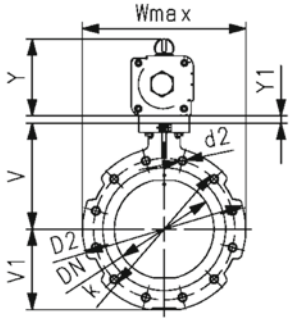
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	PA30	**199 575 540**	3.200	**199 575 560**	3.300
75	65	2 ½	10	2530	PA30	**199 575 541**	3.500	**199 575 561**	3.600
90	80	3	10	4020	PA35	**199 575 542**	4.300	**199 575 562**	4.400
110	100	4	10	5850	PA40	**199 575 543**	5.900	**199 575 563**	6.100
140	125	5	10	11900	PA45	**199 575 544**	7.900	**199 575 564**	8.200
160	150	6	10	18050	PA50	**199 575 545**	10.700	**199 575 565**	11.000
225	200	8	10	43667	PA60	**199 575 546**	14.800	**199 575 566**	15.300
280	250	10	10	62333	PA65	**199 575 547**	28.400	**199 575 567**	29.100
315	300	12	6	94500	PA70	**199 575 548**	32.100	**199 575 568**	33.300

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	316.6	274.4	140	133.3	70.1	98.2	43	28.3	125	M16	155	23	70.4
75	65	333.9	274.4	161	139.9	80.8	98.2	46	43.8	145	M16	175	23	70.4
90	80	363.0	325.2	180	145.6	91.3	111.1	46	63.5	160	M16	190	23	83.3
110	100	387.4	359.6	211	166.4	106.2	114.8	52	83.7	180	M16	221	23	87.0
140	125	449.8	418.0	239	180.0	120.3	149.5	56	110.4	210	M16	250	23	107.5
160	150	474.5	434.0	263	189.0	132.4	153.1	56	137.3	240	M20	277	23	111.1
225	200	546.8	547.3	319	209.5	160.3	177.0	60	191.1	295	M20	337	23	135.0
280	250	668.6	646.0	403	262.5	199.1	190.0	68	238.9	350	M20	403	23	148.0
315	300	746.9	681.0	482	284.3	235.5	210.1	78	285.5	400	M20	479	23	168.0

d (mm)	DN (mm)	Y1 (mm)	M2 (mm)
63	50	15	137.2
75	65	15	137.2
90	80	15	162.6
110	100		179.8
140	125		209.0
160	150		217.0
225	200		274.0
280	250	17	323.0
315	300	17	340.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - double acting (DA)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

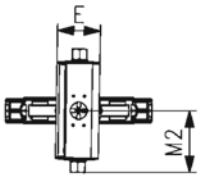
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

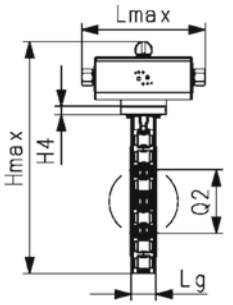
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

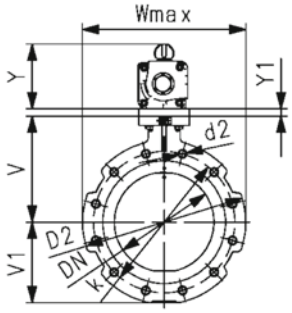
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	PA35	**199 575 600**	2.600	**199 575 620**	2.700
75	65	2 ½	10	2530	PA35	**199 575 601**	2.900	**199 575 621**	3.000
90	80	3	10	4020	PA40	**199 575 602**	3.400	**199 575 622**	3.500
110	100	4	10	5850	PA45	**199 575 603**	4.500	**199 575 623**	4.700
140	125	5	10	11900	PA45	**199 575 604**	5.100	**199 575 624**	5.400
160	150	6	10	18050	PA55	**199 575 605**	7.700	**199 575 625**	8.000
225	200	8	10	43667	PA60	**199 575 606**	10.700	**199 575 626**	11.200
280	250	10	10	62333	PA65	**199 575 607**	16.900	**199 575 627**	17.600
315	300	12	6	94500	PA70	**199 575 608**	22.400	**199 575 628**	23.600



d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	310.7	196.2	140	133.3	70.1	92.3	43	28.3	125	M16	155	23	64.5
75	65	328.0	196.2	161	139.9	80.8	92.3	46	43.8	145	M16	175	23	64.5
90	80	350.1	205.6	180	145.6	91.3	98.2	46	63.5	160	M16	190	23	70.4
110	100	383.8	242.0	211	166.4	106.2	111.2	52	83.7	180	M16	221	23	83.3
140	125	411.5	242.0	239	180.0	120.3	111.2	56	110.4	210	M16	250	23	83.3
160	150	470.9	290.0	263	189.0	132.4	149.5	56	137.3	240	M20	277	23	107.5
225	200	523.3	313.9	319	209.5	160.3	153.5	60	191.1	295	M20	337	23	111.5
280	250	638.6	339.6	403	262.5	199.1	160.0	68	238.9	350	M20	403	23	118.0
315	300	713.8	382.5	482	284.3	235.5	177.0	78	285.5	400	M20	479	23	135.0



d (mm)	DN (mm)	Y1 (mm)	M2 (mm)
63	50	15	98.1
75	65	15	98.1
90	80	15	102.8
110	100		121.0
140	125		121.0
160	150		145.0
225	200		157.0
280	250	17	169.8
315	300	17	191.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
Electric, dEA, 100-230V
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

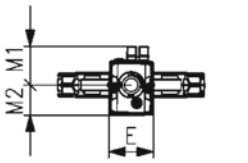
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Connectivity via NFC and Wi-Fi Direct ensuring control, identification and visibility without opening the case
- Most relevant asset data visualized in the app
- Connection and control via app possible
- LED stripe for visual open/close 360° feedback
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

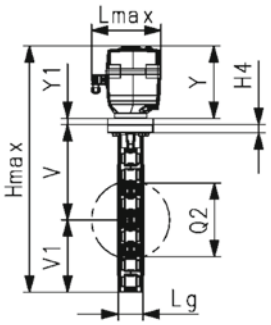
Option:

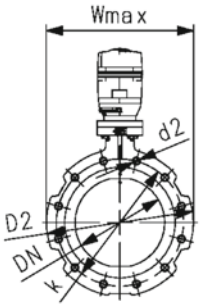
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







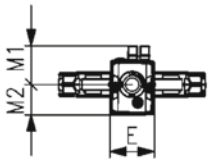
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	dEA45	**199 575 700**	4.300	**199 575 709**	4.400
75	65	2 ½	10	2530	dEA120	**199 575 701**	4.600	**199 575 710**	4.700
90	80	3	10	4020	dEA120	**199 575 702**	4.700	**199 575 711**	4.800
110	100	4	10	5850	dEA120	**199 575 703**	5.600	**199 575 712**	5.800
140	125	5	10	11900	dEA120	**199 575 704**	6.100	**199 575 713**	6.400
160	150	6	10	18050	dEA250	**199 575 705**	8.700	**199 575 714**	9.000
225	200	8	10	43667	dEA250	**199 575 706**	10.000	**199 575 715**	10.500
280	250	10	6	62333	dEA250	**199 575 707**	14.500	**199 575 716**	15.200
315	300	12	4	94500	dEA250	**199 575 708**	18.200	**199 575 717**	19.400

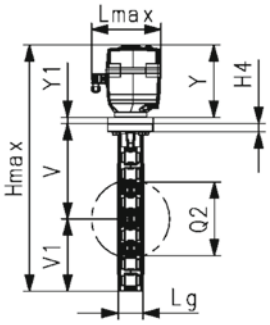
d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	384.6	190	140	133.3	70.1	166.5	43	28.3	125	M16	155	23	122.3
75	65	410.0	190	161	139.9	80.8	189.5	46	43.8	145	M16	175	23	122.3
90	80	426.2	190	180	145.6	91.3	189.5	46	63.5	160	M16	190	23	122.3
110	100	461.9	190	211	166.4	106.2	189.5	52	83.7	180	M16	221	23	122.3
140	125	489.6	190	239	180.0	120.3	189.5	56	110.4	210	M16	250	23	122.3
160	150	520.7	190	263	189.0	132.4	199.5	56	137.3	240	M20	277	23	122.3
225	200	569.1	190	319	209.5	160.3	199.5	60	191.1	295	M20	337	23	122.3
280	250	677.9	190	403	262.5	199.1	199.5	68	238.9	350	M20	403	23	122.3
315	300	736.1	190	482	284.3	235.5	199.5	78	285.5	400	M20	479	23	122.3

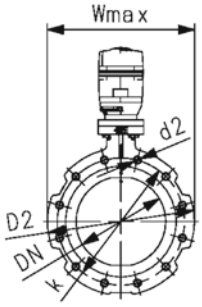
d (mm)	DN (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63	50	15	107.5	83
75	65		107.5	83
90	80		107.5	83
110	100		107.5	83
140	125		107.5	83

table continued on the next page

d (mm)	DN (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
160	150		107.5	83
225	200		107.5	83
280	250	17	107.5	83
315	300	17	107.5	83









Lug-style end installation butterfly valve type 565L PVDF/PA-GF
Electric, dEA, 24V
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

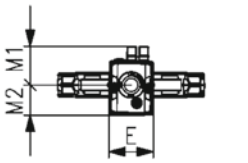
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Voltage 24V AC/DC
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Connectivity via NFC and Wi-Fi Direct ensuring control, identification and visibility without opening the case
- Most relevant asset data visualized in the app
- Connection and control via app possible
- LED stripe for visual open/close 360° feedback
- Manual override integrated in electric actuator
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

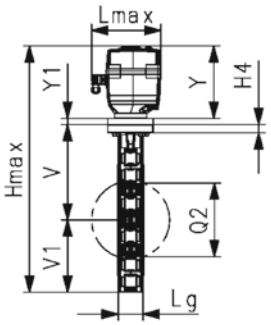
Option:

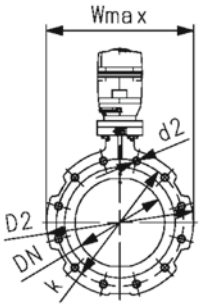
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board
- Additional manual override between valve and actuator

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







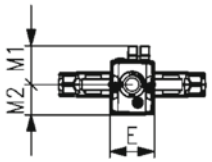
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	dEA45	**199 575 718**	4.300	**199 575 727**	4.400
75	65	2 ½	10	2530	dEA120	**199 575 719**	4.600	**199 575 728**	4.700
90	80	3	10	4020	dEA120	**199 575 720**	4.700	**199 575 729**	4.800
110	100	4	10	5850	dEA120	**199 575 721**	5.600	**199 575 730**	5.800
140	125	5	10	11900	dEA120	**199 575 722**	6.100	**199 575 731**	6.400
160	150	6	10	18050	dEA250	**199 575 723**	8.700	**199 575 732**	9.000
225	200	8	10	43667	dEA250	**199 575 724**	10.000	**199 575 733**	10.500
280	250	10	6	62333	dEA250	**199 575 725**	14.500	**199 575 734**	15.200
315	300	12	4	94500	dEA250	**199 575 726**	18.200	**199 575 735**	19.400

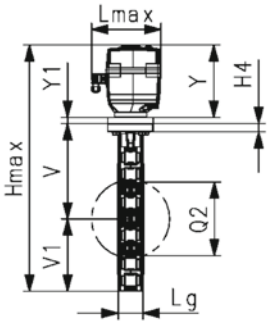
d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	384.6	190	140	133.3	70.1	166.5	43	28.3	125	M16	155	23	122.3
75	65	410.0	190	161	139.9	80.8	189.5	46	43.8	145	M16	175	23	122.3
90	80	426.2	190	180	145.6	91.3	189.5	46	63.5	160	M16	190	23	122.3
110	100	461.9	190	211	166.4	106.2	189.5	52	83.7	180	M16	221	23	122.3
140	125	489.6	190	239	180.0	120.3	189.5	56	110.4	210	M16	250	23	122.3
160	150	520.7	190	263	189.0	132.4	199.5	56	137.3	240	M20	277	23	122.3
225	200	569.1	190	319	209.5	160.3	199.5	60	191.1	295	M20	337	23	122.3
280	250	677.9	190	403	262.5	199.1	199.5	68	238.9	350	M20	403	23	122.3
315	300	736.1	190	482	284.3	235.5	199.5	78	285.5	400	M20	479	23	122.3

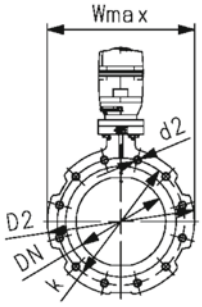
d (mm)	DN (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63	50	15	107.5	83
75	65		107.5	83
90	80		107.5	83
110	100		107.5	83
140	125		107.5	83

table continued on the next page

d (mm)	DN (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
160	150		107.5	83
225	200		107.5	83
280	250	17	107.5	83
315	300	17	107.5	83









Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

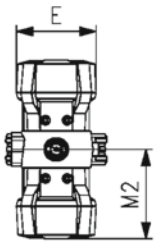
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

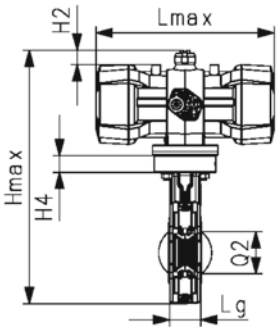
Option:

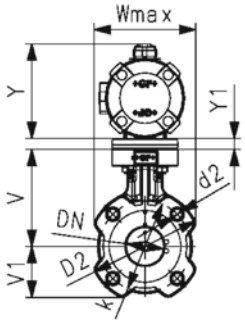
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	PPA40	**199 575 650**	2.922	**199 575 660**	2.922
75	65	2 ½	10	2530	PPA80	**199 575 651**	4.905	**199 575 661**	4.905
90	80	3	10	4020	PPA80	**199 575 652**	5.075	**199 575 662**	5.075

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	398.6	245.5	211	133.3	70.1	111	43	28.3	125	M16	155	23	119.5
75	65	446.3	343.0	239	139.9	80.8	131	46	43.8	145	M16	175	23	141.5
90	80	467.4	343.0	263	145.6	91.3	131	46	63.5	160	M16	190	23	141.5

d (mm)	DN (mm)	Y1 (mm)	M2 (mm)
63	50	15	122.75
75	65	15	171.50
90	80	15	171.50



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to open (FO)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

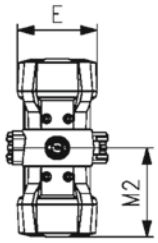
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

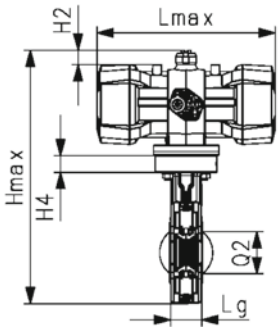
Option:

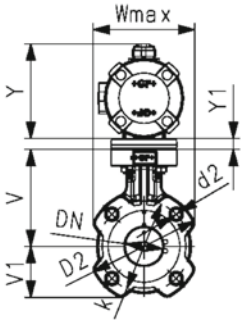
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	PPA40	**199 575 670**	2.922	**199 575 680**	2.922
75	65	2 ½	10	2530	PPA80	**199 575 671**	4.905	**199 575 681**	4.905
90	80	3	10	4020	PPA80	**199 575 672**	5.075	**199 575 682**	5.075

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	362.9	245.5	140	133.3	70.1	111	43	28.3	125	M16	155	23	119.5
75	65	418.6	343.0	161	139.9	80.8	131	46	43.8	145	M16	175	23	141.5
90	80	446.3	343.0	180	145.6	91.3	131	46	63.5	160	M16	190	23	141.5

d (mm)	DN (mm)	Y1 (mm)	M2 (mm)
63	50	15	122.75
75	65	15	171.50
90	80	15	171.50



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - double acting (DA)
Flange standard ISO/Metric
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

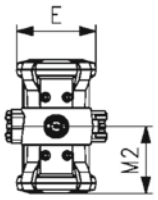
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

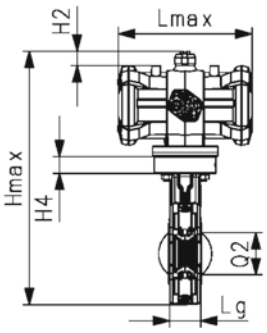
Option:

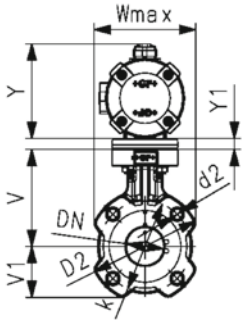
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	10	1445	PPA40	**199 575 630**	2.396	**199 575 690**	2.396
75	65	2 ½	10	2530	PPA40	**199 575 631**	2.664	**199 575 691**	2.664
90	80	3	10	4020	PPA40	**199 575 632**	2.854	**199 575 692**	2.854

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	314.4	183.5	140	133.3	70.1	111	43	28.3	125	M16	155	23	119.5
75	65	331.7	183.5	161	139.9	80.8	111	46	43.8	145	M16	175	23	119.5
90	80	347.9	183.5	180	145.6	91.3	111	46	63.5	160	M16	190	23	119.5

d (mm)	DN (mm)	M2 (mm)
63	50	91.75
75	65	91.75
90	80	91.75

Pressure regulating valves

Pressure reducing valve type 582

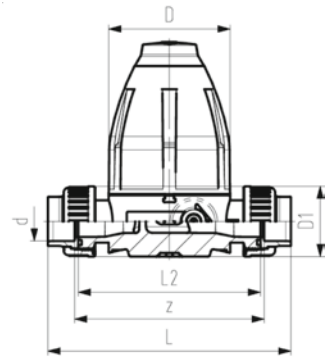


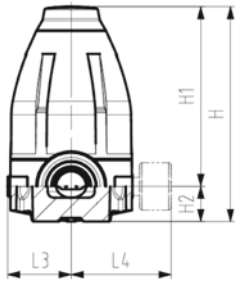
Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets metric
With manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.

0.3-3.0 bar (4-44 psi) on request





d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
16	10	⅜	10	**161 582 121**	0.724	**161 582 131**
20	15	½	10	**161 582 122**	0.730	**161 582 132**
25	20	¾	10	**161 582 123**	1.520	**161 582 133**
32	25	1	10	**161 582 124**	1.550	**161 582 134**
40	32	1 ¼	10	**161 582 125**	4.100	**161 582 135**
50	40	1 ½	10	**161 582 126**	4.270	**161 582 136**
63	50	2	10	**161 582 127**	4.500	**161 582 137**

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	M	z (mm)	closest inch (inch)
16	79	43	132	111	21	12	200	120	42	77	M6	172	⅜
20	79	43	132	111	21	12	158	120	42	77	M6	126	½
25	100	51	177	148	29	14	194	150	53	88	M6	156	¾
32	100	58	177	148	29	14	200	150	53	88	M6	156	1
40	147	72	251	207	44	21	263	205	76	111	M8	211	1 ¼
50	147	83	251	207	44	21	273	205	76	111	M8	211	1 ½
63	147	101	251	207	44	21	287	205	76	111	M8	211	2

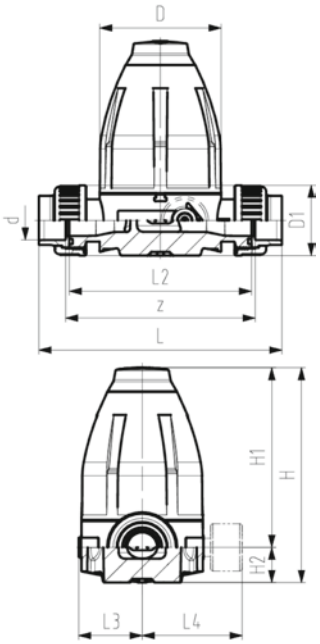


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
16	10	⅜	10	**161 582 101**	0.694	**161 582 111**
20	15	½	10	**161 582 102**	0.700	**161 582 112**
25	20	¾	10	**161 582 103**	1.490	**161 582 113**
32	25	1	10	**161 582 104**	1.520	**161 582 114**
40	32	1 ¼	10	**161 582 105**	4.070	**161 582 115**
50	40	1 ½	10	**161 582 106**	4.240	**161 582 116**
63	50	2	10	**161 582 107**	4.470	**161 582 117**

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
16	79	43	132	111	21	12	200	120	42	M6	172	⅜
20	79	43	132	111	21	12	158	120	42	M6	126	½
25	100	51	177	148	29	14	194	150	53	M6	156	¾
32	100	58	177	148	29	14	200	150	53	M6	156	1
40	147	72	251	207	44	21	263	205	76	M8	211	1 ¼
50	147	83	251	207	44	21	273	205	76	M8	211	1 ½
63	147	101	251	207	44	21	287	205	76	M8	211	2

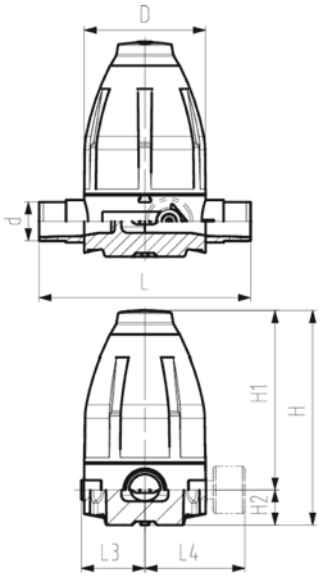


Pressure reducing valve type 582 PVC-U
With solvent cement spigots metric
With manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.

0.3-3.0 bar (4-44 psi) on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
16	10	⅜	10	**161 582 021**	0.650	**161 582 031**
20	15	½	10	**161 582 022**	0.660	**161 582 032**
25	20	¾	10	**161 582 023**	1.430	**161 582 033**
32	25	1	10	**161 582 024**	1.440	**161 582 034**
40	32	1 ¼	10	**161 582 025**	3.960	**161 582 035**
50	40	1 ½	10	**161 582 026**	3.970	**161 582 036**
63	50	2	10	**161 582 027**	4.040	**161 582 037**

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	L4 (mm)	M	closest inch (inch)
16	79	132	111	21	12	134	42	77	M6	⅜
20	79	132	111	21	12	134	42	77	M6	½
25	100	177	148	29	14	174	53	88	M6	¾
32	100	177	148	29	14	174	53	88	M6	1
40	147	251	207	44	21	224	76	111	M8	1 ¼
50	147	251	207	44	21	224	76	111	M8	1 ½
63	147	251	207	44	21	244	76	111	M8	2

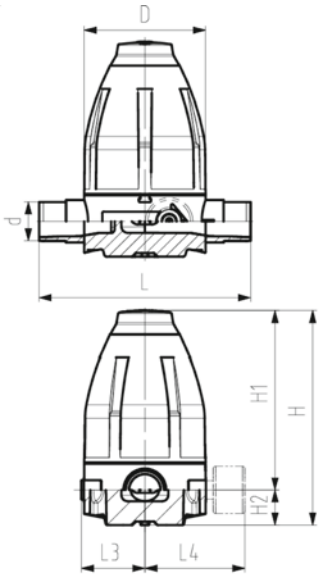


Pressure reducing valve type 582 PVC-U
With solvent cement spigots metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

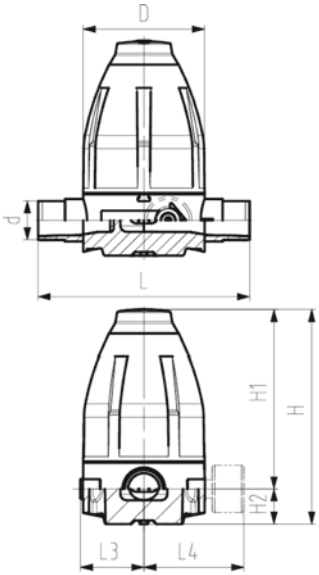
0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
16	10	⅜	10	**161 582 001**	0.620	**161 582 011**
20	15	½	10	**161 582 002**	0.630	**161 582 012**
25	20	¾	10	**161 582 003**	1.400	**161 582 013**
32	25	1	10	**161 582 004**	1.410	**161 582 014**
40	32	1 ¼	10	**161 582 005**	3.930	**161 582 015**
50	40	1 ½	10	**161 582 006**	3.940	**161 582 016**
63	50	2	10	**161 582 007**	4.010	**161 582 017**

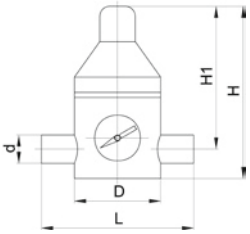
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
16	79	132	111	21	12	134	42	M6	⅜
20	79	132	111	21	12	134	42	M6	½
25	100	177	148	29	14	174	53	M6	¾

table continued on the next page



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
32	100	177	148	29	14	174	53	M6	1
40	147	251	207	44	21	224	76	M8	1 ¼
50	147	251	207	44	21	224	76	M8	1 ½
63	147	251	207	44	21	244	76	M8	2





Pressure reducing valve type V82 PVC-U
With solvent cement spigots metric

d (mm)	DN (mm)	Size (inch)	PN (bar)	Type	EPDM Code	Weight (kg)	PTFE Code
75	65	2 ½	6	V82	**199 041 019**	11.685	**199 041 029**
90	80	3	6	V82	**199 041 020**	19.630	**199 041 030**
110	100	4	4	V82	**199 041 021**	31.640	**199 041 031**

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	Pressure setting range (bar)	closest inch (inch)
75	200	350	250	300	0.5 - 5.0	2 ½
90	250	425	305	360	0.5 - 5.0	3
110	300	495	345	420	1.0 - 3.0	4

Pressure retaining valve type 586

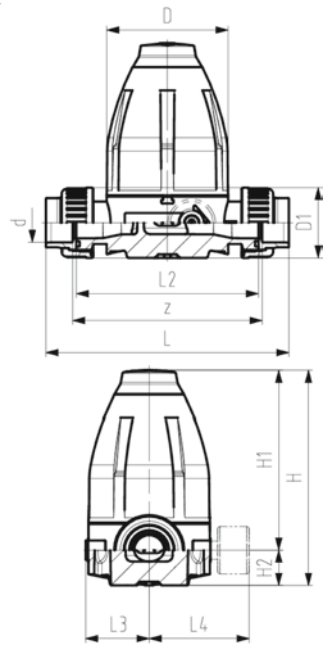


Pressure retaining valve type 586 PVC-U
Unions with solvent cement sockets metric
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
16	10	⅜	10	**161 586 101**	0.694	**161 586 111**
20	15	½	10	**161 586 102**	0.690	**161 586 112**
25	20	¾	10	**161 586 103**	1.510	**161 586 113**
32	25	1	10	**161 586 104**	1.540	**161 586 114**
40	32	1 ¼	10	**161 586 105**	4.200	**161 586 115**
50	40	1 ½	10	**161 586 106**	4.260	**161 586 116**
63	50	2	10	**161 586 107**	4.500	**161 586 117**

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	closest inch (inch)
16	79	43	132	111	21	12	200	120	42	M6	172	⅜
20	79	43	132	111	21	12	158	120	42	M6	126	½
25	100	51	177	148	29	14	194	150	53	M6	156	¾
32	100	58	177	148	29	14	200	150	53	M6	156	1
40	147	72	251	207	44	21	263	205	76	M8	211	1 ¼
50	147	83	251	207	44	21	273	205	76	M8	211	1 ½
63	147	101	251	207	44	21	287	205	76	M8	211	2

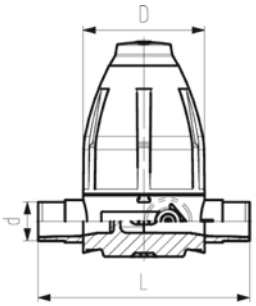


Pressure retaining valve type 586 PVC-U
With solvent cement spigots metric
Without manometer

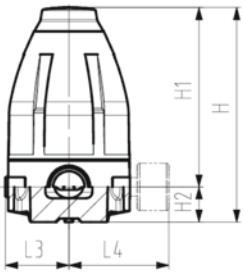
Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
16	10	⅜	10	**161 586 001**	0.620	**161 586 011**
20	15	½	10	**161 586 002**	0.620	**161 586 012**
25	20	¾	10	**161 586 003**	1.420	**161 586 013**
32	25	1	10	**161 586 004**	1.430	**161 586 014**
40	32	1 ¼	10	**161 586 005**	3.960	**161 586 015**
50	40	1 ½	10	**161 586 006**	3.960	**161 586 016**
63	50	2	10	**161 586 007**	4.040	**161 586 017**

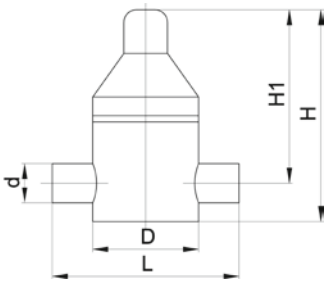


d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L3 (mm)	M	closest inch (inch)
16	79	132	111	21	12	134	42	M6	⅜
20	79	132	111	21	12	134	42	M6	½
25	100	177	148	29	14	174	53	M6	¾
32	100	177	148	29	14	174	53	M6	1
40	147	251	207	44	21	224	76	M8	1 ¼
50	147	251	207	44	21	224	76	M8	1 ½
63	147	251	207	44	21	244	76	M8	2



Pressure retaining valve type V86 PVC-U
With solvent cement spigots metric

d (mm)	DN (mm)	Size (inch)	PN (bar)	Type	EPDM Code	Weight (kg)	PTFE Code
75	65	2 ½	6	V86	**199 041 950**	7.700	**199 041 990**
90	80	3	6	V86	**199 041 988**	17.700	**199 041 991**
110	100	4	4	V86	**199 041 953**	19.600	**199 041 945**



d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	Pressure setting range (bar)	closest inch (inch)
75	180	275	230	284	1.0 - 6.0	2 ½
90	250	410	320	360	1.0 - 6.0	3
110	250	485	415	380	1.0 - 4.0	4

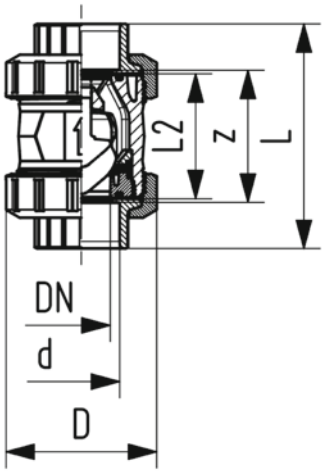
Process control valves



Check valve type 561 PVC-U
Without spring
With solvent cement sockets metric

Model:

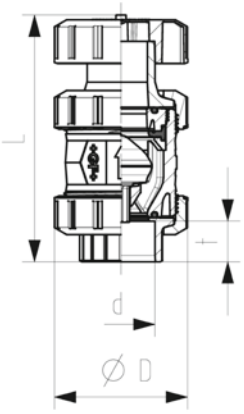
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Sealing at a minimum water column of 2 m



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	16	190	**161 561 001**	0.119	**161 561 011**	0.120
20	15	½	16	180	**161 561 002**	0.117	**161 561 012**	0.119
25	20	¾	16	380	**161 561 003**	0.182	**161 561 013**	0.181
32	25	1	16	460	**161 561 004**	0.281	**161 561 014**	0.285
40	32	1 ¼	16	850	**161 561 005**	0.480	**161 561 015**	0.488
50	40	1 ½	16	1080	**161 561 006**	0.714	**161 561 016**	0.750
63	50	2	16	1670	**161 561 007**	1.344	**161 561 017**	1.376
75	65	2 ½	16	2950	**161 561 008**	3.160	**161 561 018**	3.170
90	80	3	16	3600	**161 561 009**	5.040	**161 561 019**	5.060
110	100	4	16	4150	**161 561 010**	8.130	**161 561 020**	8.170

d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	92	56	64	⅜
20	50	95	56	64	½
25	58	110	65	72	¾
32	68	123	71	79	1
40	84	146	85	94	1 ¼
50	97	157	89	95	1 ½
63	124	183	101	107	2
75	166	233	136	144	2 ½
90	200	254	141	151	3
110	238	301	164	174	4





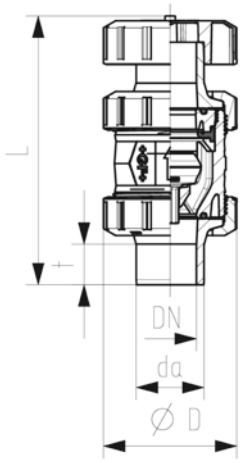
Ventilating and bleed valve Type 591 PVC-U
With solvent cement sockets metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 591 001**	**161 591 011**	50	118	14	⅜
20	15	16	**161 591 002**	**161 591 012**	50	124	16	½
25	20	16	**161 591 003**	**161 591 013**	58	142	19	¾
32	25	16	**161 591 004**	**161 591 014**	68	157	22	1
40	32	16	**161 591 005**	**161 591 015**	84	179	26	1 ¼
50	40	16	**161 591 006**	**161 591 016**	97	197	31	1 ½
63	50	16	**161 591 007**	**161 591 017**	124	229	38	2
75	65	16	**161 591 008**	**161 591 018**	166	258	45	2 ½
90	80	16	**161 591 009**	**161 591 019**	200	277	52	3
110	100	16	**161 591 010**	**161 591 020**	238	320	64	4





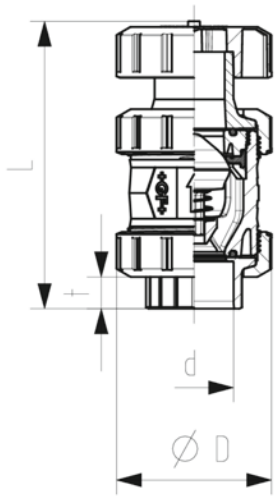
Ventilating and bleed valve Type 591 PVC-U
With solvent cement spigots metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 591 041**	**161 591 051**	50	129	14	⅜
20	15	16	**161 591 042**	**161 591 052**	50	139	16	½
25	20	16	**161 591 043**	**161 591 053**	58	160	19	¾
32	25	16	**161 591 044**	**161 591 054**	68	172	22	1
40	32	16	**161 591 045**	**161 591 055**	84	193	26	1 ¼
50	40	16	**161 591 046**	**161 591 056**	97	215	31	1 ½
63	50	16	**161 591 047**	**161 591 057**	124	249	38	2
75	65	16	**161 591 048**	**161 591 058**	166	284	44	2 ½
90	80	16	**161 591 049**	**161 591 059**	200	300	52	3
110	100	16	**161 591 050**	**161 591 060**	238	340	61	4





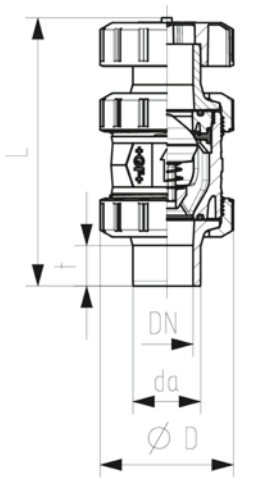
Ventilating valve type 595 PVC-U
With solvent cement sockets metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 595 001**	**161 595 011**	50	118	14	⅜
20	15	16	**161 595 002**	**161 595 012**	50	124	16	½
25	20	16	**161 595 003**	**161 595 013**	58	142	19	¾
32	25	16	**161 595 004**	**161 595 014**	68	157	22	1
40	32	16	**161 595 005**	**161 595 015**	84	179	26	1 ¼
50	40	16	**161 595 006**	**161 595 016**	97	197	31	1 ½
63	50	16	**161 595 007**	**161 595 017**	124	229	38	2
75	65	16	**161 595 008**	**161 595 018**	166	258	45	2 ½
90	80	16	**161 595 009**	**161 595 019**	200	277	52	3
110	100	16	**161 595 010**	**161 595 020**	238	320	64	4





Ventilating valve type 595 PVC-U
With solvent cement spigots metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	**161 595 041**	**161 595 051**	50	129	14	⅜
20	15	16	**161 595 042**	**161 595 052**	50	139	16	½
25	20	16	**161 595 043**	**161 595 053**	58	160	19	¾
32	25	16	**161 595 044**	**161 595 054**	68	172	22	1
40	32	16	**161 595 045**	**161 595 055**	84	193	26	1 ¼
50	40	16	**161 595 046**	**161 595 056**	97	215	31	1 ½
63	50	16	**161 595 047**	**161 595 057**	124	249	38	2
75	65	16	**161 595 048**	**161 595 058**	166	284	44	2 ½
90	80	16	**161 595 049**	**161 595 059**	200	300	52	3
110	100	16	**161 595 050**	**161 595 060**	238	340	61	4

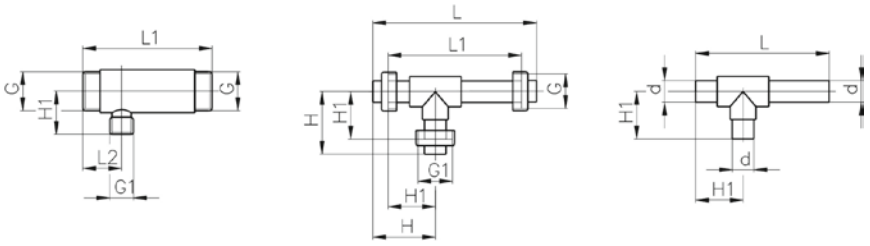


Water jet suction pump type P20 PVC-U

- DN 10-20: BSP parallel female thread and solvent cement socked metric with EPDM o-rings
- DN 25-50: Solvent cement socket metric with EPDM o-rings
- DN 65-80: Solvent cement spigot metric without o-rings

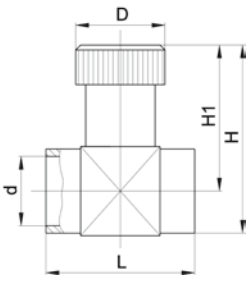
d (mm)	DN (mm)	Size (inch)	PN (bar)	Code	Weight (kg)
16	10	⅜	10	**199 041 120**	0.138
20	15	½	10	**199 041 121**	0.228
25	20	¾	10	**199 041 122**	0.363
32	25	1	10	**199 041 123**	0.468
40	32	1 ¼	10	**199 041 124**	0.841
50	40	1 ½	10	**199 041 125**	1.360
63	50	2	10	**199 041 126**	2.440
75	65	2 ½	10	**199 041 127**	2.313
90	80	3	10	**199 041 128**	4.090

d (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)	G1 (inch)	G (inch)
16		35		110	40	⅜	¾	R 3/4
20		35		125	40	½	¾	R 1
25		45		145	45	¾	¾	R 1 1/4
32	96	71	245	195		1	1 ½	R 1 1/2
40	116	87	297	239		1 ¼	2	R 2
50	139	105	369	301		1 ½	2 ¼	R 2 1/4
63	169	128	433	351		2	2 ¾	R 2 3/4
75		115	388			2 ½		
90		149	465			3		



DN 10 – 20 DN 25 – 50 DN 65 – 80

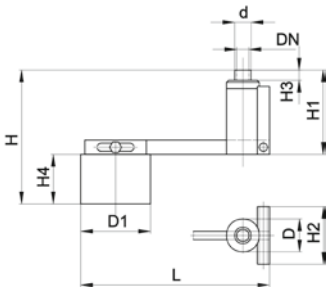




Throttle valve type V251 PVC-U
With solvent cement sockets metric

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)	D (mm)	H (mm)	H1 (mm)	L (mm)	closest inch (inch)
16	10	10	**199 041 203**	0.048	**199 041 210**	0.048	29	57	45	47	⅜
20	15	10	**199 041 204**	0.077	**199 041 211**	0.081	35	66	51	55	½
25	20	10	**199 041 205**	0.123	**199 041 212**	0.122	40	80	63	66	¾
32	25	10	**199 041 206**	0.217	**199 041 213**	0.219	47	96	75	80	1
40	32	10	**199 041 207**	0.352	**199 041 214**	0.329	56	111	86	100	1 ¼
50	40	10	**199 041 208**	0.662	**199 041 215**	0.662	70	133	101	120	1 ½
63	50	10	**199 041 209**	1.213	**199 041 216**	1.213	88	158	118	146	2





Float valve type V140 PVC-U
With solvent cement spigots metric

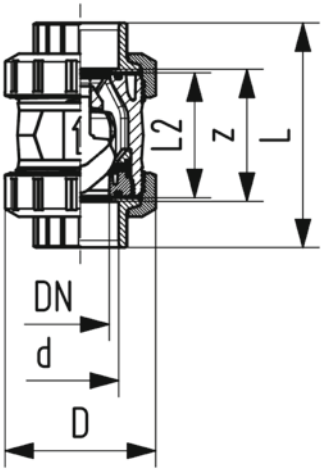
- Lever 1:10

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	6	**199 041 147**	0.300	**199 041 156**	0.300
20	15	6	**199 041 148**	0.300	**199 041 157**	0.300
25	20	6	**199 041 149**	2.469	**199 041 158**	0.300
32	25	6	**199 041 150**	0.400	**199 041 159**	0.400
40	32	6	**199 041 151**	4.500	**199 041 160**	4.000
50	40	6	**199 041 152**	6.200	**199 041 161**	6.200
63	50	6	**199 041 153**	8.100	**199 041 162**	8.100
75	65	6	**199 041 154**	10.400	**199 041 163**	10.400
90	80	6	**199 041 155**	11.400	**199 041 164**	11.400

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	L (mm)	closest inch (inch)
16	45	125	270	120	80	14	130	380	⅜
20	45	125	270	120	80	16	130	380	½
25	65	200	340	160	110	19	170	530	¾
32	65	200	345	165	110	22	170	530	1
40	90	225	440	210	130	26	210	720	1 ¼
50	90	225	445	215	130	31	210	720	1 ½
63	130	315	595	255	160	38	290	975	2
75	130	315	600	260	160	44	290	975	2 ½
90	150	355	640	290	180	51	340	1140	3

Cone check valves





Check valve type 561 PVC-U
Without spring
With transparent housing
With solvent cement sockets metric

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Sealing at a minimum water column of 2 m

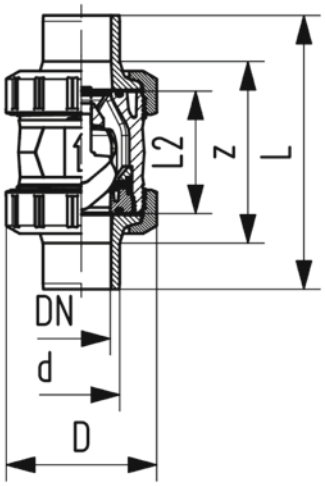
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
32	25	1	16	460	**192 561 004**	0.290	68	123	71	79	1
63	50	2	16	1670	**192 561 007**	1.330	124	183	101	107	2



Check valve type 561 PVC-U
Without spring
With solvent cement spigots metric

Model:

- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	16	190	**161 561 041**	0.130	**161 561 051**	0.130
20	15	½	16	180	**161 561 042**	0.130	**161 561 052**	0.130
25	20	¾	16	380	**161 561 043**	0.188	**161 561 053**	0.290
32	25	1	16	460	**161 561 044**	0.296	**161 561 054**	0.320
40	32	1 ¼	16	850	**161 561 045**	0.530	**161 561 055**	0.530
50	40	1 ½	16	1080	**161 561 046**	0.762	**161 561 056**	0.810
63	50	2	16	1670	**161 561 047**	1.419	**161 561 057**	1.450
75	65	2 ½	16	2950	**161 561 048**	3.370	**161 561 058**	3.380
90	80	3	16	3600	**161 561 049**	5.320	**161 561 059**	5.340
110	100	4	16	4150	**161 561 050**	8.500	**161 561 060**	8.540

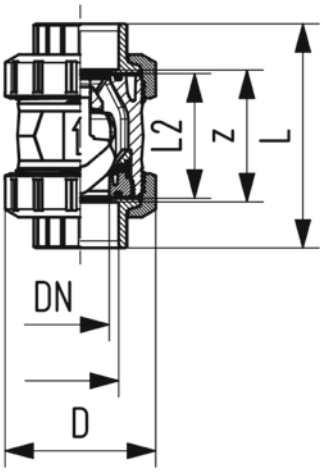
d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	114	56	⅜
20	50	124	56	½
25	58	144	65	¾
32	68	154	71	1
40	84	174	85	1 ¼
50	97	194	89	1 ½
63	124	224	101	2
75	166	284	136	2 ½
90	200	300	141	3
110	238	340	164	4



Check valve type 561 PVC-U
Without spring
With threaded sockets Rp

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	Rp	⅜	10	190	**161 561 021**	0.130	**161 561 031**	0.130
20	15	Rp	½	10	180	**161 561 022**	0.130	**161 561 032**	0.130
25	20	Rp	¾	10	380	**161 561 023**	0.260	**161 561 033**	0.280
32	25	Rp	1	10	460	**161 561 024**	0.300	**161 561 034**	0.300
40	32	Rp	1 ¼	10	850	**161 561 025**	0.510	**161 561 035**	0.520
50	40	Rp	1 ½	10	1080	**161 561 026**	0.780	**161 561 036**	0.790
63	50	Rp	2	10	1670	**161 561 027**	1.390	**161 561 037**	1.400
75	65	Rp	2 ½	10	2950	**161 561 028**	3.800	**161 561 038**	3.820
90	80	Rp	3	10	3600	**161 561 029**	5.160	**161 561 039**	5.180
110	100	Rp	4	10	4150	**161 561 030**	8.140	**161 561 040**	8.180

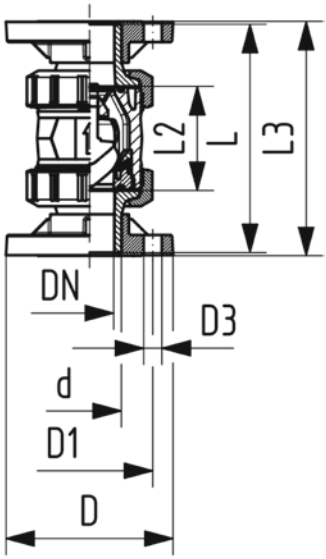
D (mm)	L (mm)	L2 (mm)	z (mm)
50	95	56	69
50	100	56	67
58	114	65	78
68	127	71	85
84	146	85	100
97	152	89	106
124	177	101	121
166	233	136	144
200	254	141	151
238	301	164	174



Check valve type 561 PVC-U
Without spring
With fixed flanges metric

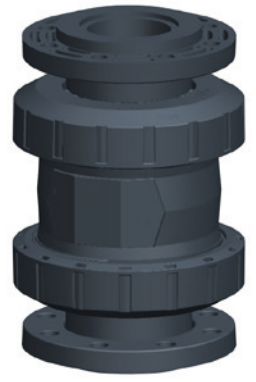
Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Sealing at a minimum water column of 2 m



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	16	180	**161 561 082**	0.330	**161 561 092**	0.330
25	20	¾	16	380	**161 561 083**	0.520	**161 561 093**	0.540
32	25	1	16	460	**161 561 084**	0.670	**161 561 094**	0.670
40	32	1 ¼	16	850	**161 561 085**	1.100	**161 561 095**	1.100
50	40	1 ½	16	1080	**161 561 086**	1.490	**161 561 096**	1.490
63	50	2	16	1670	**161 561 087**	2.430	**161 561 097**	2.440

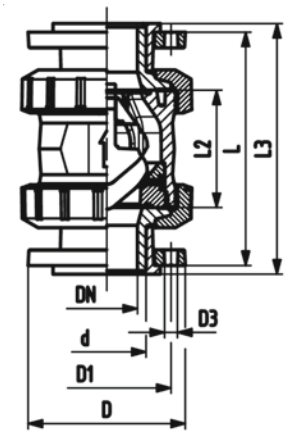
d (mm)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	95	65	14	124	56	130	½
25	105	75	14	144	65	150	¾
32	115	85	14	154	71	160	1
40	140	100	18	174	85	180	1 ¼
50	150	110	18	194	89	200	1 ½
63	165	125	18	224	101	230	2



Check valve type 561 PVC-U
Without spring
With backing flanges PVC-U metric

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Sealing at a minimum water column of 2 m



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 ½	10	2950	**161 561 408**	4.440	**161 561 418**	4.450
90	80	3	10	3600	**161 561 409**	6.740	**161 561 419**	6.770
110	100	4	10	4150	**161 561 410**	10.280	**161 561 420**	10.320

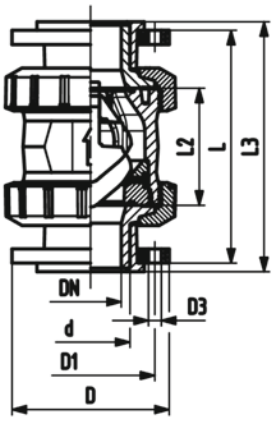
d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	149	85	284	270	136	70	64	206	M8	1 ¼
90	200	161	105	300	270	141	70	64	206	M8	1 ½
110	238	178	123	340	320	164	120	64	256	M12	2



Check valve type 561 PVC-U
Without spring
With backing flanges PP-st metric

Model:

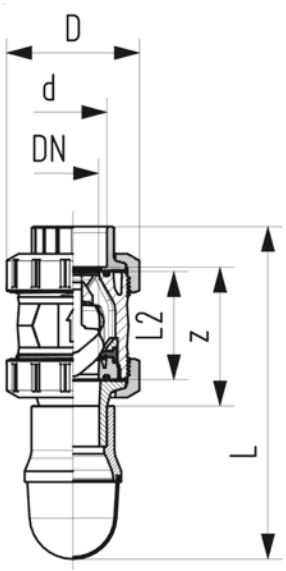
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Sealing at a minimum water column of 2 m



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 ½	16	2950	**161 561 428**	4.640	**161 561 438**	4.640
90	80	3	16	3600	**161 561 429**	5.810	**161 561 439**	5.810
110	100	4	16	4150	**161 561 430**	8.160	**161 561 440**	8.160

d (mm)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
75	185	145	18	284	136	290	1 ¼
90	200	160	20	300	141	310	1 ½
110	220	180	20	340	164	350	2





Foot valve type 561 PVC-U
Without spring
With solvent cement sockets metric

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Sealing at a minimum water column of 2 m

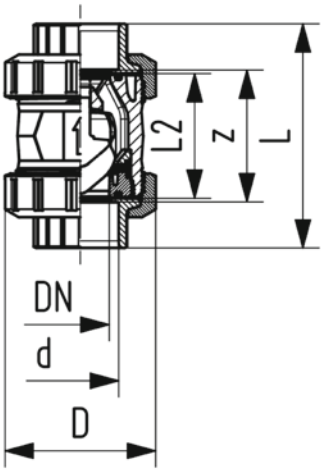
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	10	⅜	16	190	**161 561 901**	0.120	50	173	56	64	⅜
20	15	½	16	180	**161 561 902**	0.130	50	175	56	64	½
25	20	¾	16	380	**161 561 903**	0.250	58	192	65	72	¾
32	25	1	16	460	**161 561 904**	0.290	68	204	71	79	1
40	32	1 ¼	16	850	**161 561 905**	0.510	90	267	85	94	1 ¼
50	40	1 ½	16	1080	**161 561 906**	0.750	90	282	83	95	1 ½
63	50	2	16	1670	**161 561 907**	1.330	90	310	101	107	2



Check valve type 562 PVC-U
With solvent cement sockets metric

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	16	190	**161 562 001**	0.120	**161 562 011**	0.120
20	15	16	180	**161 562 002**	0.130	**161 562 012**	0.130
25	20	16	380	**161 562 003**	0.250	**161 562 013**	0.270
32	25	16	460	**161 562 004**	0.290	**161 562 014**	0.290
40	32	16	850	**161 562 005**	0.510	**161 562 015**	0.510
50	40	16	1080	**161 562 006**	0.750	**161 562 016**	0.750
63	50	16	1670	**161 562 007**	1.330	**161 562 017**	1.340
75	65	16	2950	**161 562 008**	3.160	**161 562 018**	3.170
90	80	16	3600	**161 562 009**	5.040	**161 562 019**	5.060
110	100	16	4150	**161 562 010**	8.130	**161 562 020**	8.170

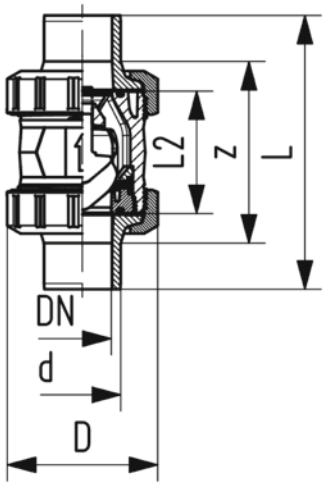
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	92	56	64	⅜
20	50	95	56	64	½
25	58	110	65	72	¾
32	68	123	71	79	1
40	84	146	85	94	1 ¼
50	97	157	89	95	1 ½
63	124	183	101	107	2
75	166	233	136	144	2 ½
90	200	254	141	151	3
110	238	301	164	174	4



Check valve type 562 PVC-U
With solvent cement spigots metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	16	190	**161 562 041**	0.130	**161 562 051**	0.130
20	15	16	180	**161 562 042**	0.130	**161 562 052**	0.130
25	20	16	380	**161 562 043**	0.270	**161 562 053**	0.290
32	25	16	460	**161 562 044**	0.320	**161 562 054**	0.320
40	32	16	850	**161 562 045**	0.530	**161 562 055**	0.530
50	40	16	1080	**161 562 046**	0.810	**161 562 056**	0.810
63	50	16	1670	**161 562 047**	1.450	**161 562 057**	1.450
75	65	16	2950	**161 562 048**	3.370	**161 562 058**	3.380
90	80	16	3600	**161 562 049**	5.320	**161 562 059**	5.340
110	100	16	4150	**161 562 050**	8.500	**161 562 060**	8.540

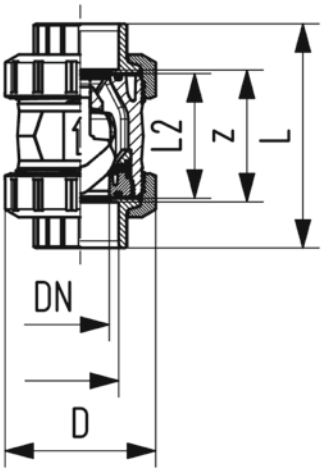
d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	114	56	⅜
20	50	124	56	½
25	58	144	65	¾
32	68	154	71	1
40	84	174	85	1 ¼
50	97	194	89	1 ½
63	124	224	101	2
75	166	284	136	2 ½
90	200	300	141	3
110	238	340	164	4



Check valve type 562 PVC-U
With threaded sockets Rp

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
⅜	10	10	190	**161 562 021**	0.130	**161 562 031**	0.130
½	15	10	180	**161 562 022**	0.130	**161 562 032**	0.130
¾	20	10	380	**161 562 023**	0.260	**161 562 033**	0.280
1	25	10	460	**161 562 024**	0.300	**161 562 034**	0.300
1 ¼	32	10	850	**161 562 025**	0.510	**161 562 035**	0.520
1 ½	40	10	1080	**161 562 026**	0.780	**161 562 036**	0.790
2	50	10	1670	**161 562 027**	1.390	**161 562 037**	1.400
2 ½	65	10	2950	**161 562 028**	3.800	**161 562 038**	3.820
3	80	10	3600	**161 562 029**	5.160	**161 562 039**	5.180
4	100	10	4150	**161 562 030**	8.140	**161 562 040**	8.180

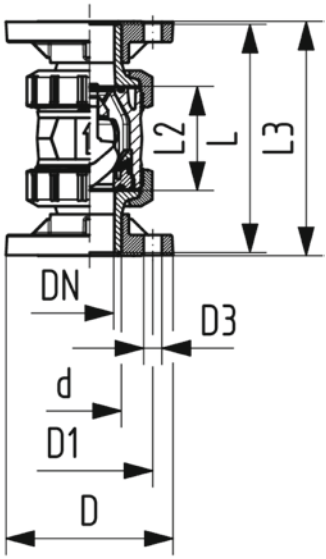
Rp (inch)	D (mm)	L (mm)	L2 (mm)	z (mm)
⅜	50	95	56	69
½	50	100	56	67
¾	58	114	65	78
1	68	127	71	85
1 ¼	84	146	85	100
1 ½	97	152	89	106
2	124	177	101	121
2 ½	166	233	136	144
3	200	254	141	151
4	238	301	164	174



Check valve type 562 PVC-U
With fixed flanges metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	16	180	**161 562 082**	0.330	**161 562 092**	0.330
25	20	16	380	**161 562 083**	0.520	**161 562 093**	0.540
32	25	16	460	**161 562 084**	0.670	**161 562 094**	0.670
40	32	16	850	**161 562 085**	1.100	**161 562 095**	1.100
50	40	16	1080	**161 562 086**	1.490	**161 562 096**	1.490
63	50	16	1670	**161 562 087**	2.430	**161 562 097**	2.440

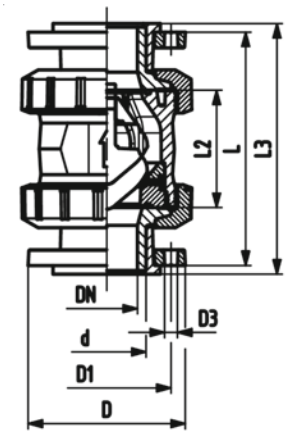
d (mm)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	95	65	14	124	56	130	½
25	105	75	14	144	65	150	¾
32	115	85	14	154	71	160	1
40	140	100	18	174	85	180	1 ¼
50	150	110	18	194	89	200	1 ½
63	165	125	18	224	101	230	2



Check valve type 562 PVC-U
With backing flanges PVC-U metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	16	2950	**161 562 408**	4.440	**161 562 418**	4.450
90	80	16	3600	**161 562 409**	6.740	**161 562 419**	6.770
110	100	16	4150	**161 562 410**	10.280	**161 562 420**	10.320

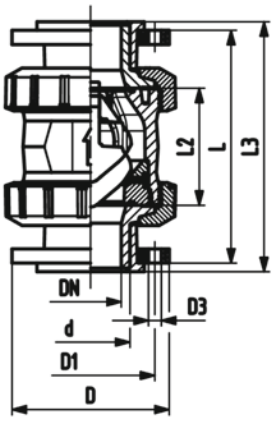
d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	149	85	284	270	136	70	64	206	M8	1 ¼
90	200	161	105	300	270	141	70	64	206	M8	1 ½
110	238	178	123	340	320	164	120	64	256	M12	2



Check valve type 562 PVC-U
With backing flanges PP-st metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

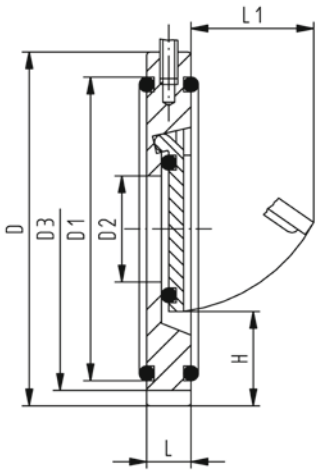


d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	10	2950	**161 562 428**	6.220	**161 562 438**	6.230
90	80	10	3600	**161 562 429**	8.330	**161 562 439**	8.360
110	100	10	4150	**161 562 430**	12.300	**161 562 440**	12.340

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	closest inch (inch)
75	166	149	85	284	270	136	290	70	64	206	1 ¼
90	200	161	105	300	270	141	310	70	64	206	1 ½
110	238	178	123	340	320	164	350	120	64	256	2

Wafer check valves





Wafer check valve type 369 PVC-U
Without spring

Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

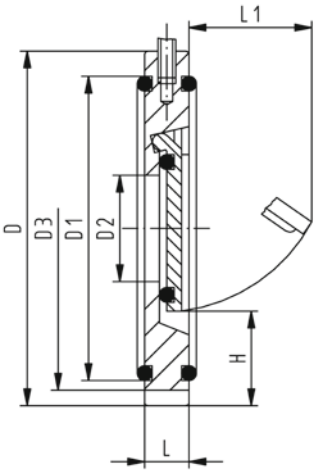
Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
40	32	1 ¼	10	**161 369 002**	0.110	**161 369 022**	0.108
50	40	1 ½	10	**161 369 003**	0.174	**161 369 023**	0.202
63	50	2	10	**161 369 004**	0.273	**161 369 024**	0.277
75	65	2 ½	10	**161 369 005**	0.352	**161 369 025**	0.386
90	80	3	10	**161 369 006**	0.560	**161 369 026**	0.591
110	100	4	10	**161 369 007**	0.651	**161 369 027**	0.667
140	125	5	10	**161 369 009**	0.791	**161 369 029**	0.856
160	150	6	6	**161 369 010**	1.153	**161 369 030**	1.207
225	200	8	6	**161 369 011**	2.215	**161 369 031**	2.306
280	250	10	6	**161 369 012**	3.850	**161 369 032**	3.915
315	300	12	6	**161 369 013**	7.059	**161 369 033**	5.300

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	L (mm)	L1 (mm)	H (mm)	Opening pressure vertical (mbar)	Opening pressure horizontal (mbar)	Minimum water column for sealing (m)
40	85	59	18		15	22	25	10	1	2
50	105	77	22	95	16	27	27	10	1	2
63	124	92	32	109	18	40	29	10	1	2
75	137	111	40	129	20	55	31	10	1	2
90	175	131	54	144	20	67	32	10	1	2
110	175	153	70	164	23	77	31	10	1	2
140	195	185	92		23	94	35	10	1	2
160	222	198	105	220	26	100	41	10	1	2
225	279	259	154	275	34	152	38	18	1	2
280	340	311	192	330	40	180	41	18	1	2
315	410	347	227	380	45	215	41	18	1	2





Wafer check valve type 369 PVC-U
With Hastelloy C spring

Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

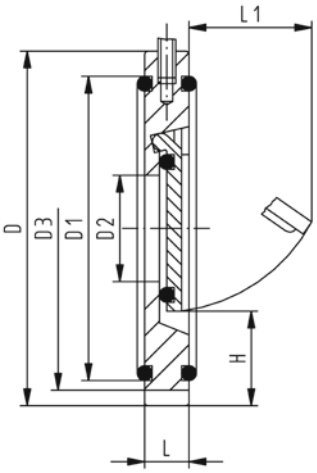
Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
40	32	1 ¼	10	**161 369 082**	0.130	**161 369 102**	0.130
50	40	1 ½	10	**161 369 083**	0.174	**161 369 103**	0.160
63	50	2	10	**161 369 084**	0.250	**161 369 104**	0.277
75	65	2 ½	10	**161 369 085**	0.320	**161 369 105**	0.320
90	80	3	10	**161 369 086**	0.390	**161 369 106**	0.390
110	100	4	10	**161 369 087**	0.654	**161 369 107**	0.550
140	125	5	10	**161 369 089**	0.750	**161 369 109**	0.750
160	150	6	6	**161 369 090**	1.164	**161 369 110**	1.100
225	200	8	6	**161 369 091**	2.100	**161 369 111**	2.100
280	250	10	6	**161 369 092**	3.500	**161 369 112**	3.500
315	300	12	6	**161 369 093**	5.300	**161 369 113**	5.300

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	L (mm)	L1 (mm)	H (mm)	Opening pressure vertical (mbar)	Opening pressure horizontal (mbar)	Minimum water column for sealing (m)
40	85	59	18		15	22	25	30	20	2
50	105	77	22	95	16	27	27	30	20	2
63	124	92	32	109	18	40	29	30	20	2
75	137	111	40	129	20	55	31	30	20	2
90	175	131	54	144	20	67	32	30	20	2
110	175	153	70	164	23	77	31	30	20	2
140	195	185	92		23	94	35	30	20	2
160	222	198	105	220	26	100	41	30	20	2
225	279	259	154	275	34	152	38	38	20	2
280	340	311	192	330	40	180	41	38	20	2
315	410	347	227	380	45	215	41	38	20	2





Wafer check valve type 369 PVC-U
With V4A spring (stainless steel 316)

Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

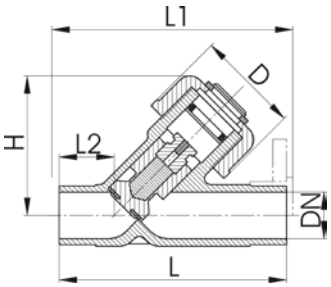
- Installation between ISO/DIN (all dimensions) and ANSI/BS flange adaptors (all except DN32 and DN125)
- Installation with ANSI/BS flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI/BS flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI/BS flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI/BS by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
40	32	1 ¼	10	**161 369 042**	0.130	**161 369 062**	0.107
50	40	1 ½	10	**161 369 043**	0.160	**161 369 063**	0.206
63	50	2	10	**161 369 044**	0.273	**161 369 064**	0.250
75	65	2 ½	10	**161 369 045**	0.357	**161 369 065**	0.320
90	80	3	10	**161 369 046**	0.561	**161 369 066**	0.390
110	100	4	10	**161 369 047**	0.651	**161 369 067**	0.684
140	125	5	10	**161 369 049**	0.791	**161 369 069**	0.750
160	150	6	6	**161 369 050**	1.171	**161 369 070**	1.100
225	200	8	6	**161 369 051**	2.252	**161 369 071**	2.100
280	250	10	6	**161 369 052**	3.790	**161 369 072**	3.500
315	300	12	6	**161 369 053**	6.274	**161 369 073**	5.300

d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	L (mm)	L1 (mm)	H (mm)	Opening pressure vertical (mbar)	Opening pressure horizontal (mbar)	Minimum water column for sealing (m)
40	85	59	18		15	22	25	30	20	2
50	105	77	22	95	16	27	27	30	20	2
63	124	92	32	109	18	40	29	30	20	2
75	137	111	40	129	20	55	31	30	20	2
90	175	131	54	144	20	67	32	30	20	2
110	175	153	70	164	23	77	31	30	20	2
140	195	185	92		23	94	35	30	20	2
160	222	198	105	220	26	100	41	30	20	2
225	279	259	154	275	34	152	38	38	20	2
280	340	311	192	330	40	180	41	38	20	2
315	410	347	227	380	45	215	41	38	20	2

Angle seat valves





Angle seat check valve type 303 PVC-U
With solvent cement spigots metric

Model:

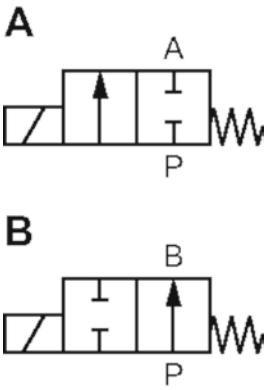
- For horizontal or vertical installation
- Leakproof from: EPDM 2m, FKM 3m water column
- Specific gravity of piston approx. 2 kg/dm^3
- Overall length EN 558

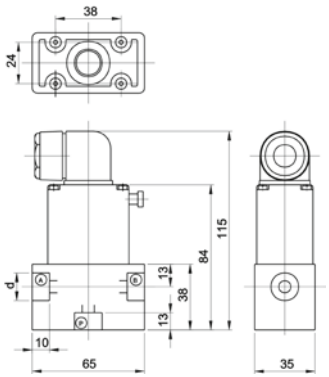
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	41	**161 303 005**	0.075	**161 303 030**	0.094
20	15	10	95	**161 303 006**	0.113	**161 303 031**	0.132
25	20	10	180	**161 303 007**	0.170	**161 303 032**	0.172
32	25	10	327	**161 303 008**	0.288	**161 303 033**	0.290
40	32	10	484	**161 303 009**	0.444	**161 303 034**	0.448
50	40	10	725	**161 303 010**	0.791	**161 303 035**	0.798
63	50	10	1130	**161 303 011**	1.345	**161 303 036**	1.345
75	65	10	1700	**161 303 012**	2.483	**161 303 037**	2.499
90	80	10	2500	**161 303 013**	3.514	**161 303 038**	3.540

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
16	39	58	114	120	24	⅜
20	43	65	124	130	28	½
25	47	75	144	150	37	¾
32	56	90	154	160	37	1
40	64	102	174	180	44	1 ¼
50	82	123	194	200	48	1 ½
63	95	144	224	230	60	2
75	92	186	284	290	74	2 ½
90	104	204	300	310	85	3

Solenoid valves







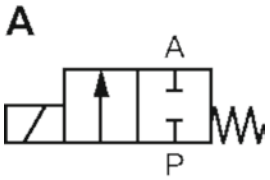
Solenoid valve type 157 PVC-U
Straight-through valve 2/2-way

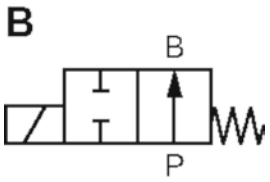
Model:

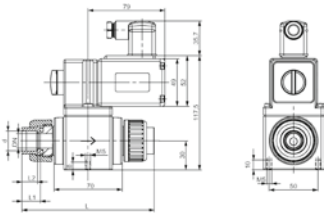
- Material PVC-U: with threaded sockets parallel female thread Rp
- With manual override
- Electrical connection: cable plug
- Protection class IP 65
- Circuit function A: FC, closed in rest position
- Circuit function B: FO, opened in rest position

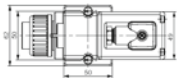
DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Inner Thread (inch)	Voltage	Function	EPDM Code	FKM Code
4	0 - 4	5.0	G3/8	24V DC	B	**199 157 647**	
6	0 - 2	10.0	G3/8	24V DC	B	**199 157 648**	
4	0 - 4	5.0	G3/8	230V 50Hz ± 10%	B	**199 157 027**	**199 157 022**
6	0 - 2	10.0	G3/8	230V 50Hz ± 10%	B	**199 157 028**	
8	0 - 1	16.7	G3/8	230V 50Hz ± 10%	B	**199 157 029**	
4	0 - 4	5.0	G3/8	24V DC	A	**199 157 627**	**199 157 622**
6	0 - 1	10.0	G3/8	24V DC	A	**199 157 628**	**199 157 623**
8	0 - 1	16.7	G3/8	24V AC/DC	A	**199 157 629**	**199 157 624**
4	0 - 4	5.0	G3/8	230V 50Hz ± 10%	A	**199 157 007**	**199 157 002**
6	0 - 2	10.0	G3/8	230V 50Hz ± 10%	A	**199 157 008**	**199 157 003**
8	0 - 1	16.7	G3/8	230V 50Hz ± 10%	A	**199 157 009**	**199 157 004**











Solenoid valve type 160 PVC-U
Straight through valve 2/2-way

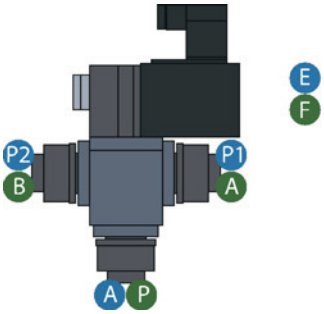
Model:

- Material: PVC-U
- With solvent cement socket metric
- With manual override
- Electrical connection: cable plug
- Protection class IP 65
- Circuit function A: FC, closed in rest position
- Circuit function B: FO, opened in rest position

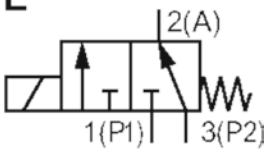
d (mm)	DN (mm)	DN Seat (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Voltage	Function	EPDM Code	FKM Code
16	10	10	3.0	33	230V 50Hz ± 10%	A	**199 160 010**	**199 160 005**
20	15	10	3.0	33	230V 50Hz ± 10%	A	**199 160 011**	**199 160 006**
20	15	15	1.0	75	230V 50Hz ± 10%	A	**199 160 012**	**199 160 007**
25	20	15	1.0	75	230V 50Hz ± 10%	A	**199 160 013**	**199 160 008**
25	20	20	0.5	100	230V 50Hz ± 10%	A	**199 160 014**	**199 160 009**
16	10	10	2.0	33	230V 50Hz ± 10%	B	**199 160 025**	**199 160 020**
20	15	10	1.0	33	230V 50Hz ± 10%	B	**199 160 026**	**199 160 021**
20	15	15	1.0	75	230V 50Hz ± 10%	B	**199 160 027**	**199 160 022**
25	20	15	1.0	75	230V 50Hz ± 10%	B	**199 160 028**	**199 160 023**
25	20	20	0.5	100	230V 50Hz ± 10%	B	**199 160 029**	**199 160 024**
16	10	10	3.0	33	24V AC/DC	A	**199 160 370**	**199 160 365**
20	15	10	3.0	33	24V AC/DC	A	**199 160 371**	**199 160 366**
20	15	15	1.0	75	24V AC/DC	A	**199 160 372**	**199 160 367**
25	20	15	1.0	75	24V AC/DC	A	**199 160 373**	
25	20	20	0.5	100	24V AC/DC	A	**199 160 374**	**199 160 369**
16	10	10	2.0	33	24V AC/DC	B	**199 160 385**	**199 160 380**
20	15	10	2.0	33	24V AC/DC	B	**199 160 386**	**199 160 381**
25	20	20	0.5	100	24V AC/DC	B	**199 160 389**	

d (mm)	DN (mm)	L (mm)	L1 (mm)	L2 (mm)
16	10	130	17	14
20	15	134	19	16
20	15	136	19	16
25	20	142	22	19
25	20	144	22	19
16	10	130	17	14
20	15	134	19	16
20	15	136	19	16
25	20	142	19	19
25	20	144	22	19
16	10	130	17	14
20	15	134	19	16
20	15	136	19	16
25	20	142	22	19
25	20	144	22	19
16	10	130	17	14
20	15	134	19	16
25	20	144	22	19

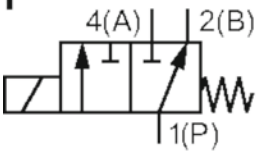


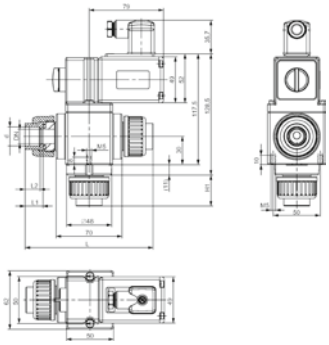


E



F





Solenoid valve type 161 PVC-U
Mixing valve 3/2-way

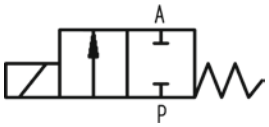
Model:

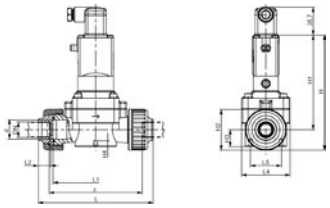
- Material: PVC-U
- With solvent cement socket metric
- With manual override
- Electrical connection: cable plug
- Protection class IP 65
- Circuit function E: In rest position, pressure connection P2 connected to outlet A. P1 closed
- Circuit function F: In rest position, pressure connection P connected to outlet B. A closed

d (mm)	DN (mm)	DN Seat (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Voltage	Function	EPDM Code	FKM Code
16	10	10	0.60	33	230V 50Hz ± 10%	E		**199 161 035**
20	15	15	0.30	67	230V 50Hz ± 10%	E		**199 161 037**
25	20	20	0.15	83	230V 50Hz ± 10%	E	**199 161 044**	**199 161 039**
20	15	10	1.00	33	230V 50Hz ± 10%	F		**199 161 051**
20	15	15	0.50	67	230V 50Hz ± 10%	F	**199 161 057**	**199 161 052**
25	20	20	0.15	83	24V AC/DC	E	**199 161 434**	**199 161 429**
16	10	10	0.60	33	24V AC/DC	E	**199 161 430**	
20	15	15	0.30	67	24V AC/DC	E	**199 161 432**	
25	20	15	0.30	67	24V AC/DC	E	**199 161 433**	
16	10	10	1.00	33	24V AC/DC	F	**199 161 445**	
20	15	15	0.50	67	24V AC/DC	F	**199 161 447**	
25	20	20	0.25	83	24V AC/DC	F	**199 161 449**	
16	10	10	1.00	33	230V 50Hz ± 10%	F	**199 161 055**	
25	20	20	0.25	83	230V 50Hz ± 10%	F	**199 161 059**	
25	20	15		67	230V 50Hz ± 10%	F	**199 158 058**	

d (mm)	DN (mm)	Size (inch)	L (mm)	L2 (mm)	H1 (mm)	L1 (mm)
16	10	¾	130	14	30	17
20	15	⅜	136	16	33	19
25	20	½	144	19	37	22
20	15	½	134	14	32	19
20	15	⅜	136	16	33	19
25	20	¾	144	19	37	22
16	10	⅜	130	14	30	17
20	15	½	136	16	33	19
25	20	¾	142	16	36	22
16	10	¾	130	14	30	17
20	15	½	136	16	33	19
25	20	¾	144	19	37	22
16	10	½	130	14	30	17
25	20	¾	144	19	37	22
25	20	½	142	16	32	22







Solenoid valve type 165 PVC-U
Straight-through valve 2/2-way/230V 50Hz/60Hz

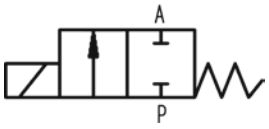
Model:

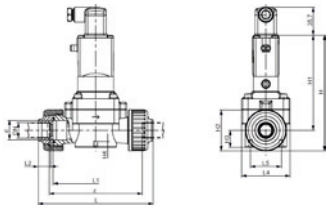
- PN 0.5-6bar
- Material PVC-U: with solvent cement socket metric
- Protection class IP 65
- Electrical connection: cable plug
- With manual override
- Circuit function A: FC, closed in rest position

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code
20	15	½	6	83	**199 165 012**	**199 165 002**
25	20	¾	6	100	**199 165 013**	**199 165 003**
32	25	1	6	233	**199 165 014**	**199 165 004**
40	32	1 ¼	6	267	**199 165 015**	**199 165 005**
50	40	1 ½	6	500	**199 165 016**	
63	50	2	6	600	**199 165 017**	**199 165 007**

d (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	z (mm)
20	148	122	53	22	8	148	110	16	63	40	116
25	148	122	53	22	8	154	110	19	62	40	116
32	175	137	76	31	15	190	141	22	85	45	147
40	175	137	76	31	15	198	141	26	85	45	147
50	212	160	105	42	15	254	192	31	115	45	198
63	212	160	105	42	15	268	192	38	115	45	198







Solenoid valve type 165 PVC-U
Straight-through valve 2/2-way/110V 50Hz/60Hz

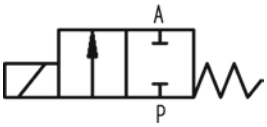
Model:

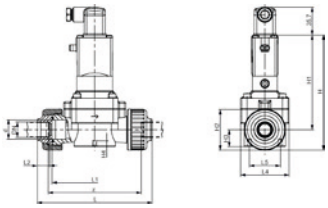
- PN 0.5-6bar
- Material PVC-U: with solvent cement socket metric
- Protection class IP 65
- Electrical connection: cable plug
- With manual override
- Circuit function A: FC, closed in rest position

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code
20	15	½	6	83	**199 165 042**	**199 165 032**
25	20	¾	6	100	**199 165 043**	**199 165 033**
32	25	1	6	233	**199 165 044**	**199 165 034**
40	32	1 ¼	6	267	**199 165 045**	
50	40	1 ½	6	500	**199 165 046**	
63	50	2	6	600	**199 165 047**	

d (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	z (mm)
20	148	122	53	22	8	148	110	16	63	40	116
25	148	122	53	22	8	154	110	19	62	40	116
32	175	137	76	31	15	190	141	22	85	45	147
40	175	137	76	31	15	198	141	26	85	45	147
50	212	160	105	42	15	254	192	31	115	45	198
63	212	160	105	42	15	268	192	38	115	45	198







Solenoid valve type 165 PVC-U
Straight-through valve 2/2-way/24V DC

Model:

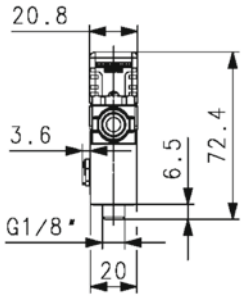
- PN 0.5-6bar
- Material PVC-U: with solvent cement socket metric
- Protection class IP 65
- Electrical connection: cable plug
- With manual override
- Circuit function A: FC, closed in rest position

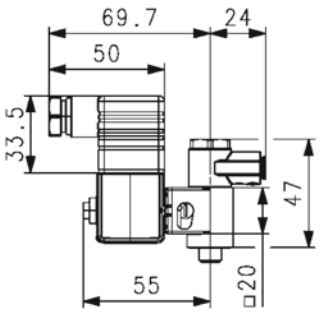
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	FKM Code
20	15	½	6	83	**199 165 022**	**199 165 072**
25	20	¾	6	100	**199 165 023**	**199 165 073**
32	25	1	6	233	**199 165 024**	**199 165 074**
40	32	1 ¼	6	267	**199 165 025**	**199 165 075**
50	40	1 ½	6	500	**199 165 026**	**199 165 076**
63	50	2	6	600	**199 165 027**	**199 165 077**

d (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	z (mm)
20	148	122	53	22	8	148	110	16	63	40	116
25	148	122	53	22	8	154	110	19	62	40	116
32	175	137	76	31	15	190	141	22	85	45	147
40	175	137	76	31	15	198	141	26	85	45	147
50	212	160	105	42	15	254	192	31	115	45	198
63	212	160	105	42	15	268	192	38	115	45	198

Solenoid Pilot Valves





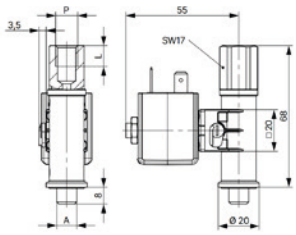


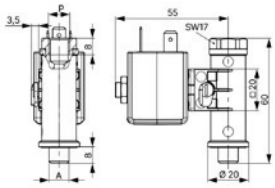
Solenoid pilot valve type PV94
3/2-way for single acting actuators

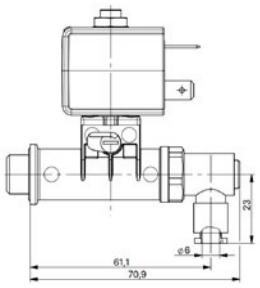
- For direct installation on single acting pneumatic actuators (FC/FO)
- Hollow screw
- Circuit function C: FC, closed in rest position
- Port A: G1/8 actuator connection
- Port P: compressed air
- Valve material: polyamid/brass
- IP 65 with socket connector
- Incl. reducer G 1/4 - G 1/8

DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Port P	Voltage	Cable plug form	FKM Code	Weight (kg)
1.2	10	48	G 1/8	24 V DC	C	**199 190 498**	0.172
1.2	10	48	G 1/8	24 V, 50-60 Hz	C	**199 190 499**	0.175
1.2	10	48	G 1/8	110 V, 50-60 Hz	C	**199 190 500**	0.117
1.2	10	48	G 1/8	230 V, 50-60 Hz	C	**199 190 501**	0.117
1.2	10	48	push-in 6mm	24 V DC	C	**199 190 510**	0.177
1.2	10	48	push-in 6mm	24 V, 50-60 Hz	C	**199 190 511**	0.180
1.2	10	48	push-in 6mm	110 V, 50-60 Hz	C	**199 190 512**	0.184
1.2	10	48	push-in 6mm	230 V, 50-60 Hz	C	**199 190 513**	0.178
1.2	10	48	NPT 1/8	24 V DC	C	**199 190 546**	0.118
1.2	10	48	NPT 1/8	110 V, 50-60 Hz	C	**199 190 547**	0.173
1.2	10	48	NPT 1/8	24 V AC	C	**199 190 561**	0.177
1.2	10	48	push-in 6mm	230 V, 50-60 Hz	B	**199 190 571**	0.133
1.2	10	48	G 1/8	230 V, 50-60 Hz	B	**199 190 572**	0.126
1.2	10	48	push-in 6mm	24 V DC	B	**199 190 573**	0.130
1.2	10	48	G 1/8	24 V DC	B	**199 190 574**	0.187









Solenoid pilot valve type PV96
3/2 way valve for single acting actuators

- Connections/Position: 3/2 way pilot valve
- Functionality: normally closed
- Orifice Size: 2.0 mm
- Power: 7 watts
- Housing Material: PPS
- Seal Material: FKM
- Coil Material: Epoxy Resin, Insulation Class H
- Coil Approval: UL recognized (USA & Canada, cURus)
- Media: Neutral gases and liquids
- Viscosity: Max. 21 mm^2/s
- Media Temperature: 10 °C to +40 °C
- Ambient Temperature: 10 °C to +40 °C
- Manual Override: Yes
- Nominal Operation Mode: Continuous Duty 100 % ED
- Protection Class: IP 65 with plug connector
- Electrical Connection: According to DIN EN 175301-803 Form B

Voltage	Port P	Port A	DN (mm)	QNn Value air [l/min]	Code	Weight (kg)
24 V/ DC	NPT 1/8	G 1/8, G 1/4	2	75	**199 196 100**	0.145
24 V/ DC	G 1/8	G 1/8, G 1/4	2	75	**199 196 101**	0.145
24 V/ AC	NPT 1/8	G 1/8, G 1/4	2	75	**199 196 102**	0.145
24 V/ DC	G 1/8 Push-in 6mm	G 1/8, G 1/4	2	75	**199 196 103**	0.145
24 V/ AC	G 1/8 Push-in 6mm	G 1/8, G 1/4	2	75	**199 196 104**	0.145
110V/ AC	G 1/8 Push-in 6mm	G 1/8, G 1/4	2	75	**199 196 105**	0.145
120V/ AC	NPT 1/8	G 1/8, G 1/4	2	75	**199 196 106**	0.145
230V/ AC	G 1/8 Push-in 6mm	G 1/8, G 1/4	2	75	**199 196 107**	0.145
230V/ AC	G 1/8	G 1/8, G 1/4	2	75	**199 196 108**	0.145

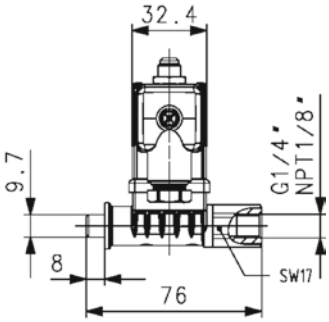
Length (mm)	Width (mm)	Height (mm)
76.0	24.4	65
60.0	24.4	65
76.0	24.4	65
60.0	24.4	65
78.9	24.4	65
78.9	24.4	65
76.0	24.4	65
78.9	24.4	65
60.0	24.4	65

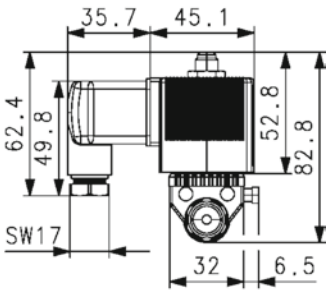


Solenoid pilot valve type PV95
3/2-way for single acting actuators

- For direct installation on single acting pneumatic actuators (FC/FO)
- Hollow screw
- Circuit function C: FC, closed in rest position
- Port A: actuator connection
- Port P: compressed air
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC
- Connector plug form A
- Valve material: polyamid/PPS
- IP 65 with socket connector

DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Port P	Port A	Voltage	FKM Code	Weight (kg)
2	10	120	G 1/4	G 1/8	24 V DC	**199 190 532**	0.479
2	10	120	G 1/4	G 1/8	24 V, 50-60 Hz	**199 190 533**	0.406
2	10	120	G 1/4	G 1/8	110 V, 50-60 Hz	**199 190 534**	0.473
2	10	120	G 1/4	G 1/8	230 V, 50-60 Hz	**199 190 535**	0.435
2	10	120	NPT 1/8	G 1/4	24 V DC	**199 190 554**	0.487
2	10	120	NPT 1/8	G 1/4	110 V, 50-60 Hz	**199 190 555**	0.409







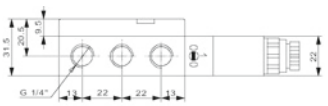
Solenoid pilot valve type MNL532
3/2-& 5/2-way for single and double acting actuators
with NAMUR interface

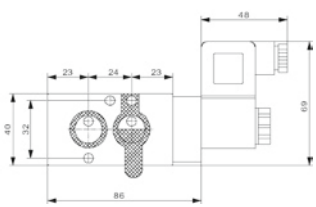
Model:

- With NAMUR connection and two silencers/throttle screws
- Electrical connection: Cable plug B
- Material of body: Aluminum

Mode of action:

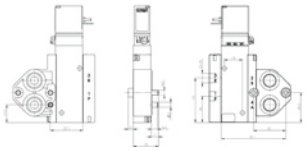
- 3/2-way valve, in rest position pressure inlet 1 closed, outlet 3 exhausted
- 5/2-way valve, in rest position pressure inlet 1 connected to outlet 4, outlet 3 exhausted
- **for pneumatic actuators**





DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Compressed air connection P	Voltage	NBR Code	Weight (kg)
5	¼	10	950	G 1/4	230 V, AC	**199 190 360**	0.332
5	¼	10	950	G 1/4	115 V, AC	**199 190 359**	0.343
5	¼	10	950	G 1/4	48 V, AC	**199 190 361**	0.341
5	¼	10	950	G 1/4	24 V, AC	**199 190 358**	0.339
5	¼	10	950	G 1/4	24 V, DC	**199 190 357**	0.343



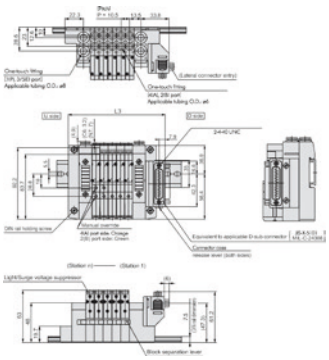


Solenoid pilot valve type 5470
4/2-way for double acting actuators
with NAMUR interface

- For AC 50-60 Hz and DC
- Version with NAMUR connection
- Circuit function: 4/2-way valve, in rest position pressure inlet 1 connected to outlet 2, outlet 4 exhausted
- Electrical connection: cable plug
- Valve material: polyamid
- **for pneumatic actuators DA (Double acting)**

DN (mm)	PN (bar)	Compressed air connection P	kv-value (Δp=1 bar) (l/min)	Voltage	NBR Code	Weight (kg)
4	10	G 1/4	300	220-240V, AC/DC	**199 190 582**	0.150
4	10	G 1/4	300	110-120V, AC/DC	**199 190 583**	0.150
4	10	G 1/4	300	24 V, AC/DC	**199 190 584**	0.150



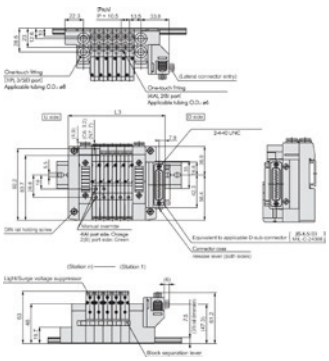


Solenoid pilot valve type PV2000 (1)
2 x 3/2-way valve

- Version for 3/2-way valves
- Electrical control over multiple and field bus connector

	Voltage	Code	Weight (kg)
1	24V/DC 100%	**199 190 435**	0.114





Solenoid pilot valve type PV2000 (2)
1 x 5/2-way valve

- Version for 5/2-way valves
- Electrical control over multiple and field bus connector

	Voltage	Code	Weight (kg)
2	24 V/DC 100%	**199 190 436**	0.105

Accessories





Cable plug
For solenoid pilot valves type PV94 & 5470

Model:

- Cable plug according to DIN EN 175301 - 8203 (DIN 43 650)

Cable plug form	Voltage	Description	NBR Code	Weight (kg)
B	0-250 V	no circuitry	**199 190 578**	0.048
B	0-24 V	with LED	**199 190 579**	0.020
B	0-250 V	with LED	**199 190 580**	0.020
B	0-24 V	with rectifier LED	**199 190 581**	0.020
C	0-250 V	no circuitry	**199 190 518**	0.010
C	0-24 V	with LED	**199 190 519**	0.015
C	0-24 V	with LED and varistor	**199 190 520**	0.015
C	0-24 V	with rectifier LED and varistor	**199 190 521**	0.020
C	200-240 V	with LED	**199 190 522**	0.020
C	200-240 V	with LED and varistor	**199 190 523**	0.020



Cable plug
For solenoid pilot valves type PV95

Model:

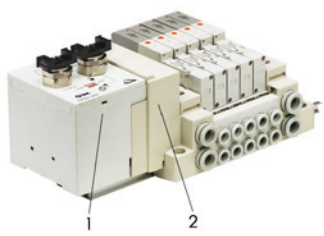
- Cable plug according to DIN EN 175301-803 (DIN 43 650) form A

Voltage	Description	NBR Code	Weight (kg)
0-250 V	no circuitry	**199 190 540**	0.030
0-24 V	with LED	**199 190 541**	0.020
0-24 V	with LED and varistor	**199 190 542**	0.020
0-24 V	with rectifier LED and varistor	**199 190 543**	0.020
200-240 V	with LED	**199 190 544**	0.020
200-240 V	with LED and varistor	**199 190 545**	0.020



Connection module AS-interface (1)
For solenoid pilot valve type PV2000

	Code	Weight (kg)
1	**199 190 430**	0.200



Connection module with bus interface (2)
For solenoid pilot valve type PV2000

	Code	Weight (kg)
2	**199 190 425**	0.156



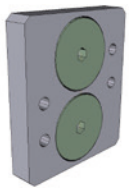
Connection module with D-sub connector (3)
For solenoid pilot valve type PV2000

	Code	Weight (kg)
3	**199 190 424**	0.198



End module (4)
For solenoid pilot valve type PV2000

	Code	Weight (kg)
4	**199 190 426**	0.148



NAMUR connector plate
for pilot valves type 5470 and type MNL532/ DIASTAR DN15-50/ PA11/21 and PA30-55

- PA30 - PA55 FC/FO, PA30 - PA65 DA

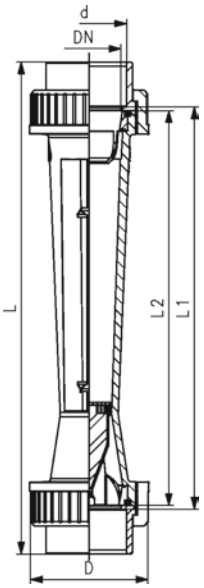
DN (mm)	Pos	Series PA11/21 Code	Weight (kg)	Series PA30-55 Code	Weight (kg)	Ten/028 FC Code	Weight (kg)
15	2	**199 190 378**	0.054	**199 190 275**	0.114	**199 190 378**	0.054
20	2	**199 190 378**	0.054	**199 190 275**	0.114	**199 190 378**	0.054
25	2	**199 190 378**	0.054	**199 190 275**	0.114	**199 190 378**	0.054
32	2	**199 190 378**	0.054	**199 190 275**	0.114	**199 190 378**	0.054
40	2	**199 190 378**	0.054	**199 190 275**	0.114	**199 190 379**	0.354
50	2	**199 190 378**	0.054	**199 190 275**	0.114	**199 190 379**	0.354

Sixteen/Ten +/025 FC Code	Weight (kg)	Ten/025 FO/DA Code	Weight (kg)
199 190 378	0.054	**199 190 378**	0.054
199 190 378	0.054	**199 190 378**	0.054
199 190 378	0.054	**199 190 378**	0.054
199 190 379	0.354	**199 190 378**	0.054
199 190 379	0.354	**199 190 379**	0.354
199 190 379	0.354	**199 190 379**	0.354

Variable area flow meters

Variable area flow meter type 335





Variable area flow meter type 335
Float in PVDF without magnet
With solvent cement sockets PVC-U metric
O-rings in EPDM

Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65

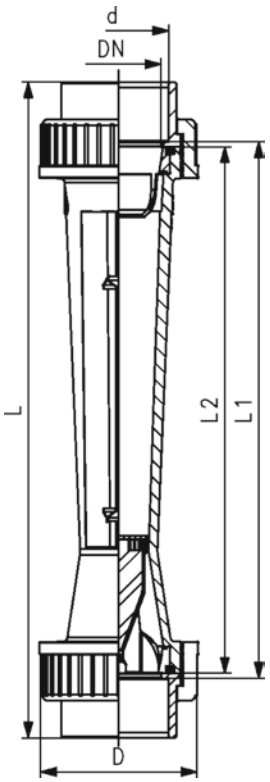
Option:

- 4-20 mA sensor
- Limit contacts
- Special scales for different media
- Union nuts and connecting parts in other materials on request

Scale range (l/h)	d (mm)	DN (mm)	Size (inch)	PVC-U transp. Code	Weight (kg)	Polyamid Code	Weight (kg)
50 - 500	32	25	1	**199 335 000**	0.564	**199 335 020**	0.522
100 - 1000	32	25	1	**199 335 001**	0.473	**199 335 021**	0.423
150 - 1500	40	32	1 ¼	**199 335 002**	0.626	**199 335 022**	0.567
250 - 2500	40	32	1 ¼	**199 335 003**	0.706	**199 335 023**	0.620
200 - 2000	50	40	1 ½	**199 335 004**	0.972	**199 335 024**	0.885
300 - 3000	50	40	1 ½	**199 335 005**	0.952	**199 335 025**	0.874
600 - 6000	50	40	1 ½	**199 335 006**	1.019	**199 335 026**	0.840
600 - 6000	63	50	2	**199 335 007**	1.357	**199 335 027**	1.381
1000 - 10000	63	50	2	**199 335 008**	1.299	**199 335 028**	1.196
1500 - 15000	63	50	2	**199 335 009**	1.301	**199 335 029**	1.355
2000 - 20000	75	65	2 ½	**199 335 010**	2.513	**199 335 030**	2.536
3000 - 30000	75	65	2 ½	**199 335 011**	2.442	**199 335 031**	2.286
8000 - 60000	75	65	2 ½	**199 335 012**	2.293	**199 335 032**	2.333

Scale range (l/h)	Polysulfone Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
50 - 500	**199 335 040**	0.464	58	385	341	335	1 ½
100 - 1000	**199 335 041**	0.528	58	385	341	335	1 ½
150 - 1500	**199 335 042**	0.698	72	393	341	335	2
250 - 2500	**199 335 043**	0.561	72	393	341	335	2
200 - 2000	**199 335 044**	1.057	83	403	341	335	2 ¼
300 - 3000	**199 335 045**	1.038	83	403	341	335	2 ¼
600 - 6000	**199 335 046**	0.991	83	403	341	335	2 ¼
600 - 6000	**199 335 047**	1.307	101	417	341	335	2 ¾
1000 - 10000	**199 335 048**	1.252	101	417	341	335	2 ¾
1500 - 15000	**199 335 049**	1.302	101	417	341	335	2 ¾
2000 - 20000	**199 335 050**	2.639	135	429	341	335	3 ½
3000 - 30000	**199 335 051**	2.572	135	429	341	335	3 ½
8000 - 60000	**199 335 052**	2.432	135	429	341	335	3 ½





Variable area flow meter type 335
Float in PVDF with magnet
With solvent cement sockets PVC-U metric
O-rings in EPDM

Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65

Option:

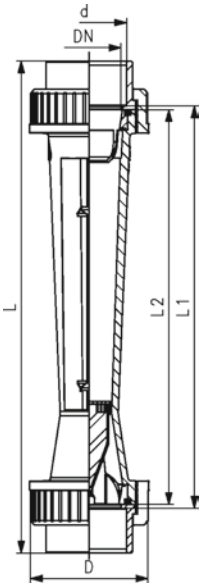
- 4-20 mA sensor
- Limit contacts
- Special scales for different media
- Union nuts and connecting parts in other materials on request

d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	PVC-U transp. Code	Weight (kg)	Polyamid Code	Weight (kg)
32	25	1	50 - 500	**199 335 100**	0.469	**199 335 120**	0.434
32	25	1	100 - 1000	**199 335 101**	0.547	**199 335 121**	0.423
40	32	1 ¼	150 - 1500	**199 335 102**	0.630	**199 335 122**	0.568
40	32	1 ¼	250 - 2500	**199 335 103**	0.714	**199 335 123**	0.547
50	40	1 ½	200 - 2000	**199 335 104**	0.973	**199 335 124**	0.887
50	40	1 ½	300 - 3000	**199 335 105**	0.952	**199 335 125**	0.874
50	40	1 ½	600 - 6000	**199 335 106**	1.024	**199 335 126**	0.836
63	50	2	600 - 6000	**199 335 107**	1.342	**199 335 127**	1.240
63	50	2	1000 - 10000	**199 335 108**	1.303	**199 335 128**	1.190
63	50	2	1500 - 15000	**199 335 109**	1.297	**199 335 129**	1.351
75	65	2 ½	2000 - 20000	**199 335 110**	2.508	**199 335 130**	2.378
75	65	2 ½	3000 - 30000	**199 335 111**	2.477	**199 335 131**	2.472
75	65	2 ½	8000 - 60000	**199 335 112**	2.294	**199 335 132**	2.150

Polysulfone Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
199 335 140	0.466	58	385	341	335	1 ½
199 335 141	0.452	58	385	341	335	1 ½
199 335 142	0.604	72	393	341	335	2
199 335 143	0.585	72	393	341	335	2
199 335 144	0.944	83	403	341	335	2 ¼
199 335 145	1.035	83	403	341	335	2 ¼
199 335 146	0.881	83	403	341	335	2 ¼
199 335 147	1.360	101	417	341	335	2 ¾
199 335 148	1.248	101	417	341	335	2 ¾
199 335 149	1.409	101	417	341	335	2 ¾
199 335 150	2.441	135	429	341	335	3 ½
199 335 151	2.377	135	429	341	335	3 ½
199 335 152	2.150	135	429	341	335	3 ½

Variable Area Flow Meter Short Version





Variable area flow meter short version type 123
Float in PVDF without magnet
With solvent cement sockets PVC-U metric
O-rings in EPDM

Model:

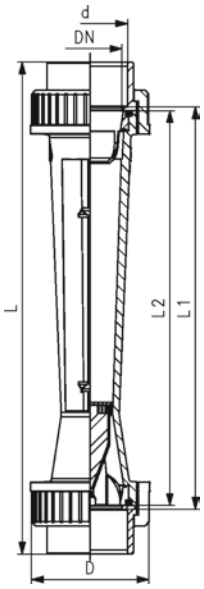
- Union nuts and valve ends in other materials on request

d (mm)	DN (mm)	Size (inch)	Type	Scale range (l/h)	Polysulfone Code	Weight (kg)	PVC-U transp. Code	Weight (kg)
16	10	⅜	SK 50	2.5 - 25.0	**198 801 880**	0.083	**198 803 310**	0.081
16	10	⅜	SK 51	5.0 - 50.0	**198 801 881**	0.078	**198 803 311**	0.079
16	10	⅜	SK 52	10.0 - 100.0	**198 801 882**	0.079	**198 803 312**	0.079
20	15	½	SK 60	8.0 - 80.0	**198 801 883**	0.125	**198 803 313**	0.127
20	15	½	SK 61	15.0 - 150.0	**198 801 884**	0.122	**198 803 314**	0.130
20	15	½	SK 62	20.0 - 200.0	**198 801 885**	0.119	**198 803 315**	0.125
32	25	1	SK 70	15.0 - 150.0	**198 801 886**	0.247	**198 803 316**	0.256
32	25	1	SK 71	30.0 - 300.0	**198 801 887**	0.244	**198 803 317**	0.254
32	25	1	SK 72	50.0 - 500.0	**198 801 888**	0.285	**198 803 318**	0.244
32	25	1	SK 73	100.0 - 1000.0	**198 801 889**	0.234	**198 803 319**	0.242

D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
35	199	171	165	¾
35	199	171	165	¾
35	199	171	165	¾
43	223	191	185	1
43	223	191	185	1
43	223	191	185	1
60	250	206	200	1 ½
60	250	206	200	1 ½
60	250	206	200	1 ½
60	250	206	200	1 ½







Variable area flow meter short version type 123
Float in PVDF with magnet
With solvent cement sockets PVC-U metric
O-rings in EPDM

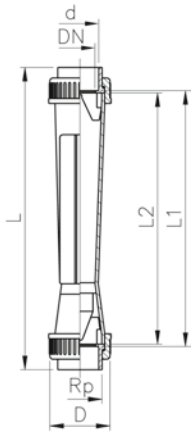
Model:

- Suitable limit switches see accessories for variable area flow meters
- Union nuts and valve ends in other materials on request

d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Type	Polysulfone Code	Weight (kg)	PVC-U transp. Code	Weight (kg)
16	10	⅜	2.5 - 25.0	SK 500	**198 801 890**	0.079	**198 803 320**	0.081
16	10	⅜	5.0 - 50.0	SK 510	**198 801 891**	0.102	**198 803 321**	0.080
16	10	⅜	10.0 - 100.0	SK 520	**198 801 892**	0.075	**198 803 322**	0.079
20	15	½	8.0 - 80.0	SK 600	**198 801 893**	0.123	**198 803 323**	0.129
20	15	½	15.0 - 150.0	SK 610	**198 801 894**	0.121	**198 803 324**	0.160
20	15	½	20.0 - 200.0	SK 620	**198 801 895**	0.119	**198 803 325**	0.125
32	25	1	15.0 - 150.0	SK 700	**198 801 896**	0.248	**198 803 326**	0.301
32	25	1	30.0 - 300.0	SK 710	**198 801 897**	0.289	**198 803 327**	0.255
32	25	1	50.0 - 500.0	SK 720	**198 801 898**	0.241	**198 803 328**	0.248
32	25	1	100.0 - 1000.0	SK 730	**198 801 899**	0.280	**198 803 329**	0.242

D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)
35	199	171	165	¾
35	199	171	165	¾
35	199	171	165	¾
43	223	191	185	1
43	223	191	185	1
43	223	191	185	1
60	250	206	200	1 ½
60	250	206	200	1 ½
60	250	206	200	1 ½
60	250	206	200	1 ½





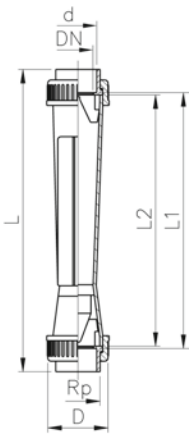
Short Version with special scale HCl 30 - 33% l/h
Float in PVDF without magnet
With solvent cement sockets PVC-U metric

Model:

- Union nuts and valve ends in other materials on request

Type	DN (mm)	Scale range (l/h)	d (mm)	Messrohr in PVC-U transparent mit EPDM Dichtungsringen Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK 70	25	5 - 125	32	**700 276 563**	0.260	60	250	206	200
SK 71	25	30 - 260	32	**700 276 564**	0.255	60	250	206	200
SK 73	25	100 - 850	32	**700 276 565**	0.243	60	250	206	200





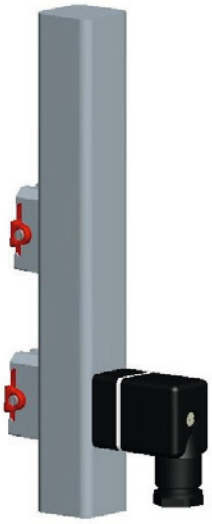
Kurzausführung mit Sonderskala NaOH 30% l/h
Schwebekörper in PVDF ohne Magnet
Mit Klebemuffen PVC-U metrisch

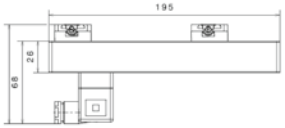
Model:

- Union nuts and valve ends in other materials on request

Type	Scale range (l/h)	d (mm)	DN (mm)	Коническая трубка из PVC-U прозрачного. Кольцевые уплотнения из EPDM. Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK 71	6 - 130	32	25	**700 276 566**	0.254	60	250	206	200
SK 72	10 - 250	32	25	**700 276 567**	0.251	60	250	206	200
SK 73	40 - 590	32	25	**700 276 568**	0.240	60	250	206	200

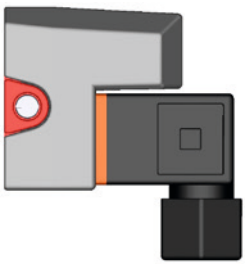
Accessories

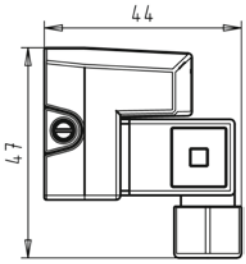




Accessories
4-20 mA sensor
For type 335 and type 350

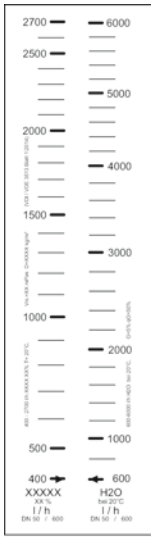
Type	d (mm)	DN (mm)	Corresponds to water scale (l/h)	Code	Weight (kg)
GK 15	32	25	50-500	**198 335 962**	0.150
GK 15	32	25	100-1000	**198 335 963**	0.150
GK 15	40	32	150-1500	**198 335 964**	0.150
GK 15	40	32	250-2500	**198 335 965**	0.150
GK 15	50	40	200-2000	**198 335 966**	0.150
GK 15	50	40	300-3000	**198 335 967**	0.150
GK 15	50	40	600-6000	**198 335 968**	0.150
GK 15	63	50	600-6000	**198 335 969**	0.150
GK 15	63	50	1000-10000	**198 335 991**	0.150
GK 15	63	50	1500-15000	**198 335 992**	0.120
GK 15	75	65	2000-20000	**198 335 993**	0.150
GK 15	75	65	3000-30000	**198 335 994**	0.150
GK 15	75	65	8000-60000	**198 335 995**	0.150





Accessories
Limit contacts GK10/GK11
For type 335/350 and short version

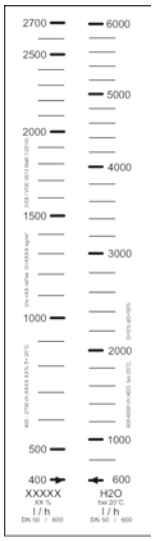
Type	Code	Weight (kg)
GK10 (min.)	**198 335 960**	0.035
GK11 (max.)	**198 335 961**	0.034



Example of special scale

Special scale for type 335/350 % for H2O

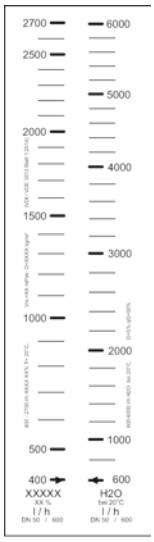
d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	10-100 %	50-500	**199 335 084**	0.050
32	25	1	10-100 %	100-1000	**199 335 083**	0.003
40	32	1 ¼	10-100 %	150-1500	**199 335 069**	0.050
40	32	1 ¼	10-100 %	250-2500	**199 335 068**	0.050
50	40	1 ½	10-100 %	200-2000	**199 335 054**	0.050
50	40	1 ½	10-100 %	300-3000	**199 335 053**	0.002
50	40	1 ½	10-100 %	600-6000	**199 335 039**	0.050
63	50	2	10-100 %	600-6000	**199 335 038**	0.002
63	50	2	10-100 %	1000-10000	**199 335 037**	0.002
63	50	2	10-100 %	1500-15000	**199 335 036**	0.050
75	65	2 ½	10-100 %	2000-20000	**199 335 035**	0.050
75	65	2 ½	10-100 %	3000-30000	**199 335 034**	0.050
75	65	2 ½	13.3-100 %	8000-60000	**199 335 033**	0.050



Example of special scale

Special scale for type 335/350 m3/h

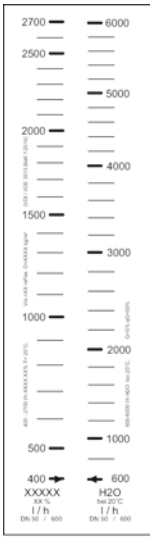
d (mm)	DN (mm)	Size (inch)	Scale range (m^3/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	0.05 - 0.50	50 - 500	**199 335 655**	0.050
32	25	1	0.10 - 1.00	100 - 1000	**199 335 656**	0.050
40	32	1 ¼	0.15 - 1.50	150 - 1500	**199 335 657**	0.050
40	32	1 ¼	0.25 - 2.50	250 - 2500	**199 335 658**	0.050
50	40	1 ½	0.20 - 2.00	200 - 2000	**199 335 659**	0.050
50	40	1 ½	0.30 - 3.00	300 - 3000	**199 335 660**	0.050
50	40	1 ½	0.60 - 6.00	600 - 6000	**199 335 661**	0.050
63	50	2	0.60 - 6.00	600 - 6000	**199 335 662**	0.050
63	50	2	1.00 - 10.00	1000 - 10000	**199 335 663**	0.050
63	50	2	1.50 - 15.00	1500 - 15000	**199 335 664**	0.050
75	65	2 ½	2.00 - 20.00	2000 - 20000	**199 335 665**	0.050
75	65	2 ½	3.00 - 30.00	3000 - 30000	**199 335 666**	0.008
75	65	2 ½	8.00 - 60.00	8000 - 60000	**199 335 667**	0.050



Example of special scale

Special scale for type 335/350 Imp. GPM

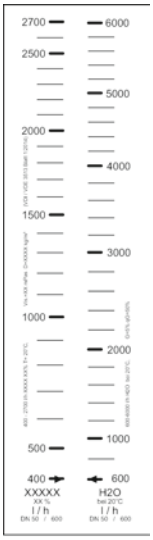
d (mm)	DN (mm)	Size (inch)	Scale range (gal/min)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	0.183 - 1.830	50-500	**199 335 670**	0.050
32	25	1	0.366 - 3.660	100-1000	**199 335 671**	0.050
40	32	1 ¼	0.550 - 5.500	150-1500	**199 335 672**	0.050
40	32	1 ¼	0.916 - 9.160	250-2500	**199 335 673**	0.050
50	40	1 ½	0.733 - 7.330	200-2000	**199 335 674**	0.050
50	40	1 ½	1.090 - 10.900	300-3000	**199 335 675**	0.050
50	40	1 ½	2.190 - 21.900	600-6000	**199 335 676**	0.050
63	50	2	2.200 - 22.000	600-6000	**199 335 677**	0.050
63	50	2	3.660 - 36.600	1000-10000	**199 335 678**	0.050
63	50	2	5.490 - 54.900	1500-15000	**199 335 679**	0.050
75	65	2 ½	7.320 - 73.200	2000-20000	**199 335 680**	0.050
75	65	2 ½	10.980 - 109.800	3000-30000	**199 335 681**	0.050
75	65	2 ½	29.280 - 219.600	8000-60000	**199 335 682**	0.050



Example of special scale

Special scale for type 335/350
US GPM

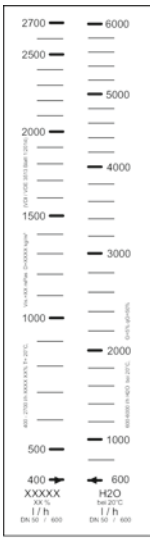
d (mm)	DN (mm)	Size (inch)	Scale range (gal/min)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	0.22 - 2.20	50 - 500	**199 335 685**	0.050
32	25	1	0.44 - 4.40	100 - 1000	**199 335 686**	0.050
40	32	1 ¼	0.66 - 6.60	150 - 1500	**199 335 687**	0.002
40	32	1 ¼	1.10 - 11.00	250 - 2500	**199 335 688**	0.050
50	40	1 ½	0.88 - 8.80	200 - 2000	**199 335 689**	0.002
50	40	1 ½	1.32 - 13.20	300 - 3000	**199 335 690**	0.050
50	40	1 ½	2.64 - 26.40	600 - 6000	**199 335 691**	0.002
63	50	2	2.64 - 26.40	600 - 6000	**199 335 692**	0.050
63	50	2	4.40 - 44.02	1000 - 10000	**199 335 693**	0.002
63	50	2	6.60 - 66.04	1500 - 15000	**199 335 694**	0.050
75	65	2 ½	8.80 - 88.00	2000 - 20000	**199 335 695**	0.002
75	65	2 ½	13.20 - 132.00	3000 - 30000	**199 335 696**	0.002
75	65	2 ½	35.20 - 264.00	8000 - 60000	**199 335 697**	0.050



Example of special scale

Special scale for type 335/350
l/h

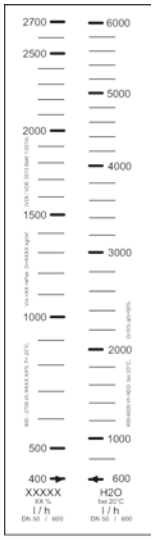
d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Code	Weight (kg)
32	25	1	50 - 500	**199 335 861**	0.050
32	25	1	100 - 1000	**199 335 862**	0.050
40	32	1 ¼	150 - 1500	**199 335 863**	0.050
40	32	1 ¼	250 - 2500	**199 335 864**	0.050
50	40	1 ½	200 - 2000	**199 335 865**	0.050
50	40	1 ½	600 - 6000	**199 335 867**	0.050
50	40	1 ½	300 - 3000	**199 335 866**	0.050
63	50	2	600 - 6000	**199 335 868**	0.050
63	50	2	1000 - 10000	**199 335 869**	0.050
63	50	2	1500 - 15000	**199 335 870**	0.050
75	65	2 ½	2000 - 20000	**199 335 871**	0.050
75	65	2 ½	3000 - 30000	**199 335 872**	0.050
75	65	2 ½	8000 - 60000	**199 335 873**	0.050



Example of special scale

Special scale for type 335/350
Air/0bar/Nm3/h

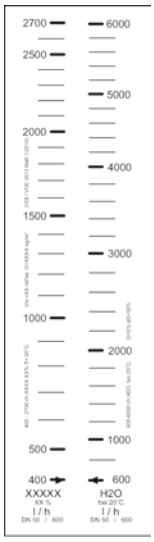
d (mm)	DN (mm)	Size (inch)	Scale range (m^3/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	2.0 - 15.0	50 - 500	**199 350 655**	0.002
32	25	1	3.5 - 30.0	100 - 1000	**199 350 656**	0.050
40	32	1 ¼	5.0 - 45.0	150 - 1500	**199 350 657**	0.050
40	32	1 ¼	8.0 - 76.0	250 - 2500	**199 350 658**	0.050
50	40	1 ½	7.0 - 60.0	200 - 2000	**199 350 659**	0.050
50	40	1 ½	10.0 - 87.0	300- 3000	**199 350 660**	0.002
50	40	1 ½	20.0 - 170.0	600 - 6000	**199 350 661**	0.050
63	50	2	25.0 - 180.0	600 - 6000	**199 350 662**	0.050
63	50	2	30.0 - 280.0	1000 - 10000	**199 350 663**	0.050
63	50	2	50.0 - 440.0	1500 - 15000	**199 350 664**	0.050
75	65	2 ½	70.0 - 580.0	2000 - 20000	**199 350 665**	0.050
75	65	2 ½	100.0 - 900.0	3000 - 30000	**199 350 666**	0.050
75	65	2 ½	230.0 - 1650.0	8000 - 60000	**199 350 667**	0.050



Example of special scale

Special scale for type 335/350
HCl 30-33% l/h

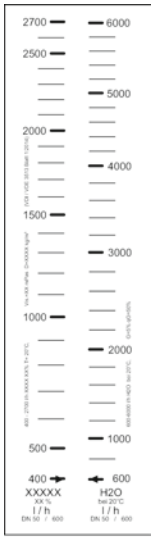
d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	40 - 430	50-500	**199 350 670**	0.050
32	25	1	80 - 860	100-1000	**199 350 671**	0.002
40	32	1 ¼	150 - 1250	150-1500	**199 350 672**	0.050
40	32	1 ¼	200 - 2150	250-2500	**199 350 673**	0.050
50	40	1 ½	200 - 1850	200-2000	**199 350 674**	0.050
50	40	1 ½	300 - 2500	300-3000	**199 350 675**	0.050
50	40	1 ½	600 - 4900	600-6000	**199 350 676**	0.010
63	50	2	600 - 5400	600-6000	**199 350 677**	0.050
63	50	2	800 - 8400	1000-10000	**199 350 678**	0.050
63	50	2	1000 - 12750	1500-15000	**199 350 679**	0.050
75	65	2 ½	2000 - 17500	2000-20000	**199 350 680**	0.050
75	65	2 ½	3000 - 26500	3000-30000	**199 350 681**	0.050
75	65	2 ½	6000 - 50000	8000-60000	**199 350 682**	0.050



Example of special scale

Special scale for type 335/350
NaOH 30% l/h

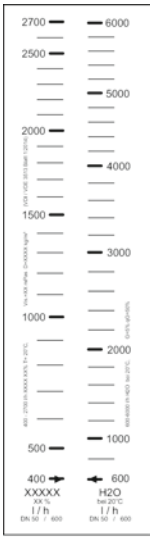
d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	30 - 320	50-500	**199 350 685**	0.050
32	25	1	70 - 660	100-1000	**199 350 686**	0.050
40	32	1 ¼	100 - 900	150-1500	**199 350 687**	0.050
40	32	1 ¼	100 - 1600	250-2500	**199 350 688**	0.050
50	40	1 ½	200 - 1400	200-2000	**199 350 689**	0.002
50	40	1 ½	300 - 1950	300-3000	**199 350 690**	0.050
50	40	1 ½	500 - 3800	600-6000	**199 350 691**	0.050
63	50	2	500 - 4300	600-6000	**199 350 692**	0.050
63	50	2	600 - 6600	1000-10000	**199 350 693**	0.050
63	50	2	750 - 9500	1500-15000	**199 350 694**	0.050
75	65	2 ½	1300 - 13000	2000-20000	**199 350 695**	0.050
75	65	2 ½	2600 - 20000	3000-30000	**199 350 696**	0.050
75	65	2 ½	6000 - 40000	8000-60000	**199 350 697**	0.050



Example of special scale

Special scale for type 335/350
NaOH 50% l/h

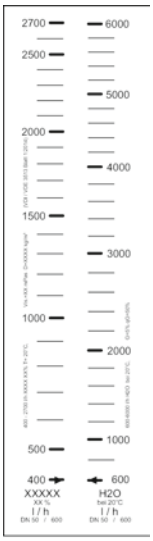
d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	10 - 62	50-500	**199 350 755**	0.050
32	25	1	10 - 195	100-1000	**199 350 756**	0.050
40	32	1 ¼	20 - 350	150-1500	**199 350 757**	0.050
40	32	1 ¼	5 - 760	250-2500	**199 350 758**	0.050
50	40	1 ½	5 - 540	200-2000	**199 350 759**	0.050
50	40	1 ½	105 - 1200	300-3000	**199 350 760**	0.050
50	40	1 ½	400 - 2350	600-6000	**199 350 761**	0.002
63	50	2	100 - 2200	600-6000	**199 350 762**	0.050
63	50	2	100 - 4000	1000-10000	**199 350 763**	0.050
63	50	2	300 - 5000	1500-15000	**199 350 764**	0.050
75	65	2 ½	200 - 7000	2000-20000	**199 350 765**	0.050
75	65	2 ½	400 - 9800	3000-30000	**199 350 766**	0.050
75	65	2 ½	2000 - 15000	8000-60000	**199 350 767**	0.050



Example of special scale

Special scale for short version
Water l/h

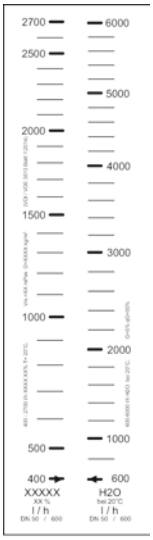
d (mm)	DN (mm)	Size (inch)	Type	Scale range (l/h)	Code
16	10	⅜	SK 50 / 500	2.5 - 25.0	**198 801 386**
16	10	⅜	SK 51 / 510	5.0 - 50.0	**198 801 387**
16	10	⅜	SK 52 / 520	10.0 - 100.0	**198 801 388**
20	15	½	SK 60 / 600	8.0 - 80.0	**198 801 389**
20	15	½	SK 61 / 610	15.0 - 150.0	**198 801 390**
20	15	½	SK 62 / 620	20.0 - 200.0	**198 801 391**
32	25	1	SK 70 / 700	15.0 - 150.0	**198 801 392**
32	25	1	SK 71 / 710	30.0 - 300.0	**198 801 393**
32	25	1	SK 72 / 720	50.0 - 500.0	**198 801 394**
32	25	1	SK 73 / 730	100.0 - 1000.0	**198 801 395**



Example of special scale

Special scale for short version
US GPM

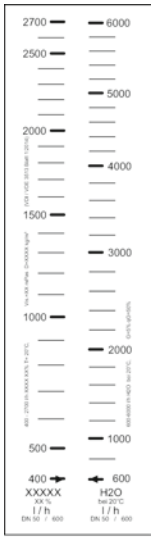
d (mm)	DN (mm)	Size (inch)	Type	Scale range (gal/min)	Code
16	10	⅜	SK 50 / 500	0.01 - 0.11	**198 801 961**
16	10	⅜	SK 51 / 510	0.02 - 0.22	**198 801 962**
16	10	⅜	SK 52 / 520	0.04 - 0.44	**198 801 963**
20	15	½	SK 60 / 600	0.03 - 0.35	**198 801 964**
20	15	½	SK 61 / 610	0.06 - 0.66	**198 801 965**
20	15	½	SK 62 / 620	0.08 - 0.88	**198 801 966**
32	25	1	SK 70 / 700	0.06 - 0.66	**198 801 967**
32	25	1	SK 71 / 710	0.13 - 1.32	**198 801 968**
32	25	1	SK 72 / 720	0.22 - 2.20	**198 801 969**
32	25	1	SK 73 / 730	0.44 - 4.40	**198 801 970**



Example of special scale

Special scale for short version
Air/0bar/Nm3/h

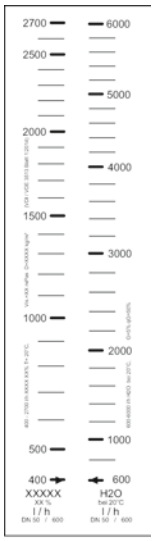
d (mm)	DN (mm)	Size (inch)	Type	Scale range (m^3/h)	Code
16	10	⅜	SK 50 / 500	0.50 - 0.95	**198 801 308**
16	10	⅜	SK 51 / 510	0.50 - 1.90	**198 801 309**
16	10	⅜	SK 52 / 520	0.80 - 3.00	**198 801 310**
20	15	½	SK 60 / 600	0.60 - 2.80	**198 801 311**
20	15	½	SK 61 / 610	1.40 - 5.60	**198 801 312**
20	15	½	SK 62 / 620	1.50 - 7.00	**198 801 313**
32	25	1	SK 70 / 700	1.00 - 6.50	**198 801 314**
32	25	1	SK 71 / 710	1.50 - 11.00	**198 801 315**
32	25	1	SK 72 / 720	3.00 - 18.00	**198 801 316**
32	25	1	SK 73 / 730	6.00 - 30.00	**198 801 317**



Example of special scale

Special scale for short version
HCl 30 - 33% l/h

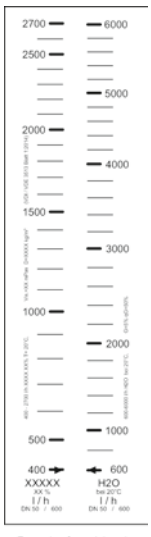
d (mm)	DN (mm)	Size (inch)	Type	Scale range (l/h)	Code
16	10	⅜	SK 50 / 500	2.5 - 20.0	**198 806 511**
16	10	⅜	SK 51 / 510	5.0 - 40.0	**198 806 512**
16	10	⅜	SK 52 / 520	10.0 - 85.0	**198 806 513**
20	15	½	SK 60 / 600	8.0 - 70.0	**198 806 514**
20	15	½	SK 61 / 610	15.0 - 125.0	**198 806 515**
20	15	½	SK 62 / 620	20.0 - 170.0	**198 806 516**
32	25	1	SK 71 / 710	30.0 - 260.0	**198 806 518**
32	25	1	SK 70 / 700	5.0 - 125.0	**198 806 517**
32	25	1	SK 72 / 720	50.0 - 425.0	**198 806 519**
32	25	1	SK 73 / 730	100.0 - 850.0	**198 806 520**



Example of special scale

Special scale for short version
NaOH 30% l/h

d (mm)	DN (mm)	Size (inch)	Type	Scale range (l/h)	Code
16	10	⅜	SK 50 / 500	0.2 - 5.0	**198 806 521**
16	10	⅜	SK 51 / 510	1.0 - 14.0	**198 806 522**
16	10	⅜	SK 52 / 520	3.0 - 35.0	**198 806 523**
20	15	½	SK 60 / 600	2.0 - 23.0	**198 806 524**
20	15	½	SK 61 / 610	3.0 - 55.0	**198 806 525**
20	15	½	SK 62 / 620	5.0 - 80.0	**198 806 526**
32	25	1	SK 70 / 700	3.0 - 55.0	**198 806 527**
32	25	1	SK 71 / 710	6.0 - 130.0	**198 806 528**
32	25	1	SK 72 / 720	10.0 - 250.0	**198 806 529**
32	25	1	SK 73 / 730	40.0 - 590.0	**198 806 530**



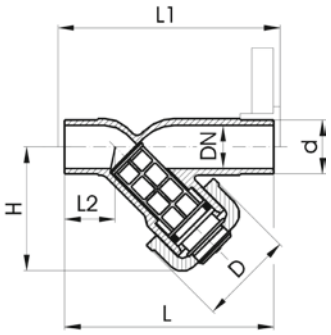
Example of special scale

Special scale for short version
NaOH 50% l/h

d (mm)	DN (mm)	Size (inch)	Type	Scale range (l/h)	Code
20	15	½	SK 60 / 600	0.2 - 3.5	**198 806 531**
20	15	½	SK 61 / 610	0.5 - 10.0	**198 806 532**
20	15	½	SK 62 / 620	0.5 - 16.0	**198 806 533**
32	25	1	SK 70 / 700	0.5 - 11.0	**198 806 534**
32	25	1	SK 71 / 710	1.0 - 33.0	**198 806 535**
32	25	1	SK 72 / 720	2.0 - 80.0	**198 806 536**
32	25	1	SK 73 / 730	10.0 - 220.0	**198 806 537**

Strainers





Line strainer type 305 PVC-U
With solvent cement spigots metric

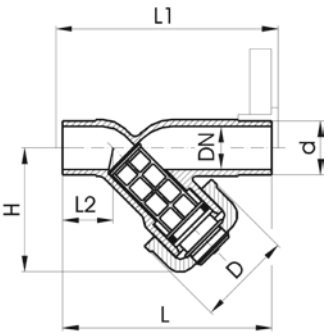
Model:

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- **Screen perforation need be ordered separately**
- Overall length according to EN 558

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	**161 305 300**	0.101	**161 305 349**	0.134
25	20	¾	10	**161 305 350**	0.141	**161 305 399**	0.215
32	25	1	10	**161 305 400**	0.226	**161 305 449**	0.257
40	32	1 ¼	10	**161 305 450**	0.348	**161 305 499**	0.386
50	40	1 ½	10	**161 305 500**	0.600	**161 305 549**	0.632
63	50	2	10	**161 305 550**	0.985	**161 305 599**	1.045
75	65	2 ½	10	**161 305 600**	1.868	**161 305 649**	1.871
90	80	3	10	**161 305 650**	2.590	**161 305 699**	2.585

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
20	43	65	124	130	28	½
25	47	76	144	150	37	¾
32	56	90	154	160	37	1
40	64	104	174	180	44	1 ¼
50	82	124	194	200	48	1 ½
63	95	148	224	230	60	2
75	106	188	284	290	74	2 ½
90	120	205	300	310	85	3





Line strainer type 305 PVC-U
Transparent body with solvent cement spigots metric

Model:

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- **Screen perforation need be ordered separately**
- Overall length according to EN 558

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	**192 305 300**	0.098	**192 305 349**	0.100
25	20	10	**192 305 350**	0.143	**192 305 399**	0.170
32	25	10	**192 305 400**	0.227	**192 305 449**	0.227
40	32	10	**192 305 450**	0.342	**192 305 499**	0.346
50	40	10	**192 305 500**	0.589	**192 305 549**	0.594
63	50	10	**192 305 550**	0.970	**192 305 599**	0.972
75	65	10	**192 305 600**	1.826	**192 305 649**	1.838
90	80	10	**192 305 650**	2.548	**192 305 699**	2.565

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
20	43	65	124	130	28	½
25	47	76	144	150	37	¾
32	56	90	154	160	37	1
40	64	104	174	180	44	1 ¼
50	82	124	194	200	48	1 ½
63	95	148	224	230	60	2
75	106	188	284	290	74	2 ½
90	120	205	300	310	85	3



Cylindrical screen type 305 PVC-U
Screen perforations 2.2 mm

- For line strainers Type 305

d (mm)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	½	35	**161 305 336**	0.005	14	39	½
25	20	¾	65	**161 305 386**	0.003	18	48	¾
32	25	1	90	**161 305 436**	0.003	24	60	1
40	32	1 ¼	155	**161 305 486**	0.003	30	71	1 ¼
50	40	1 ½	225	**161 305 536**	0.005	38	87	1 ½
63	50	2	370	**161 305 586**	0.008	48	106	2
75	65	2 ½	575	**161 305 636**	0.010	61	100	2 ½
90	80	3	955	**161 305 686**	0.013	73	118	3



Cylindrical screen type 305 PVC-U
Screen perforations 1.4 mm

- For line strainers Type 305

d (mm)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	½	35	**161 305 337**	0.003	14	39	½
25	20	¾	65	**161 305 387**	0.003	18	48	¾
32	25	1	90	**161 305 437**	0.003	24	60	1
40	32	1 ¼	155	**161 305 487**	0.004	30	71	1 ¼
50	40	1 ½	225	**161 305 537**	0.005	38	87	1 ½
63	50	2	370	**161 305 587**	0.008	48	106	2
75	65	2 ½	575	**161 305 637**	0.011	61	100	2 ½
90	80	3	955	**161 305 687**	0.013	73	118	3



Cylindrical screen type 305 PVC-U
Screen perforations 0.8 mm

- For line strainers Type 305

d (mm)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	½	35	**161 305 338**	0.005	14	39	½
25	20	¾	65	**161 305 388**	0.025	18	48	¾
32	25	1	90	**161 305 438**	0.003	24	60	1
40	32	1 ¼	155	**161 305 488**	0.004	30	71	1 ¼
50	40	1 ½	225	**161 305 538**	0.030	38	87	1 ½
63	50	2	370	**161 305 588**	0.003	48	106	2
75	65	2 ½	575	**161 305 638**	0.011	61	100	2 ½
90	80	3	955	**161 305 688**	0.015	73	118	3



Cylindrical screen type 305 PVC-U
Screen perforations 0.5 mm

- For line strainers Type 305

d (mm)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)
20	15	½	35	**161 305 339**	0.005	14	39
25	20	¾	65	**161 305 389**	0.007	18	48
32	25	1	90	**161 305 439**	0.003	24	60
40	32	1 ¼	155	**161 305 489**	0.004	30	71
50	40	1 ½	225	**161 305 539**	0.007	38	87
63	50	2	370	**161 305 589**	0.009	48	106
75	65	2 ½	575	**161 305 639**	0.012	61	100
90	80	3	955	**161 305 689**	0.016	73	118

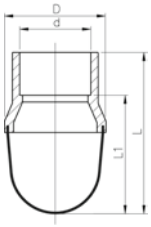
Screen assemblies and Inspection glass



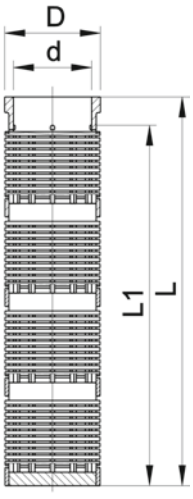
DN 15 - 50



DN65-100



DN 15–50



DN 65-100

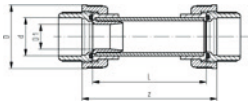
Screen assembly type 050 PVC-U
With solvent cement sockets metric

Model:

- [1] Screen with 1 extension and end plate, solvent cemented
- [2] Screen with 2 extensions and end plate, solvent cemented
- [3] Screen with 3 extensions and end plate, solvent cemented

	d (mm)	DN (mm)	Size (inch)	kv-value (Δp=1 bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	perforations ø (mm)
	20	15	½	105	**161 050 026**	0.035	50	80	64	2
	25	20	¾	228	**161 050 027**	0.039	50	83	64	2
	32	25	1	390	**161 050 028**	0.046	50	86	64	2
	40	32	1 ¼	563	**161 050 029**	0.147	90	131	105	2
	50	40	1 ½	813	**161 050 030**	0.172	90	136	105	2
	63	50	2	1590	**161 050 031**	0.192	90	143	105	2
*1	75	65	2 ½	9640	**161 050 032**	0.837	110	260	216	3
*2	90	80	3	14790	**161 050 033**	0.944	110	345	312	3
*3	110	100	4	15213	**161 050 034**	1.338	125	490	460	3





Inspection glass type 001 PVC-U

Model:

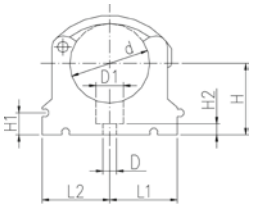
- For visual inspection of the medium in the pipeline
- For horizontal or vertical installation
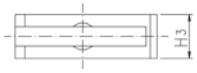
d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	z (mm)	closest inch (inch)
50	40	10	**199 001 240**	0.567	83	29	150	178	1 ½

Pipe clips









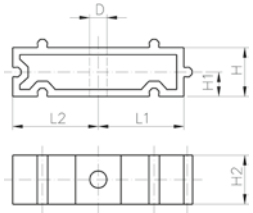
KLIP-IT pipe clip type 061 PP metric

Model:

- Material: clip and safety clip PP black, UV resistant
- d16 - d63: height designed for ball valve type 546 and 543
- **Minimum order quantity: standard packagings SP**

	d (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
*	10	**167 061 003**	0.003	5	8	20	10	6	12	11	14	M4	⅛
*	12	**167 061 004**	0.003	5	8	21	10	6	12	11	14	M5	¼
*	16	**167 061 035**	0.007	6	11	27	10	6	16	14	17	M5	⅜
*	20	**167 061 036**	0.007	6	11	27	10	6	16	17	19	M5	½
*	25	**167 061 037**	0.009	6	11	30	10	6	16	19	22	M5	¾
*	32	**167 061 038**	0.012	6	11	36	10	6	16	24	27	M5	1
	40	**167 061 039**	0.027	7	14	44	10	7	22	34	34	M6	1 ¼
	50	**167 061 040**	0.031	7	14	51	10	7	22	37	37	M6	1 ½
	63	**167 061 041**	0.052	9	17	64	10	10	25	45	45	M8	2
	75	**167 061 012**	0.057	9	17	58	10	10	25	52	52	M8	2 ½
	90	**167 061 013**	0.092	9	17	65	10	10	28	65	65	M8	3
	110	**167 061 014**	0.117	9	17	75	10	10	28	79	79	M8	4
	125	**167 061 015**	0.180	9	17	90	10	10	32	88	88	M8	
	140	**167 061 016**	0.224	9	17	110	10	10	32	98	98	M8	5
	160	**167 061 017**	0.242	9	17	108	10	10	32	109	109	M8	6





KLIP-IT spacer type 061 PP

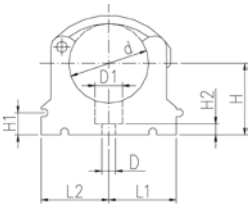
Model:
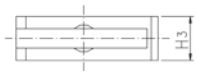
- For pipe clips type 061/061H, PP black, UV resistant
- **Minimum order quantity: standard packaging SP**

d (mm)	Inch (inch)	Code	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
10 - 12	⅛ - ¼	**167 061 153**	0.003	5	11	14	20	10	12	M4
16	⅜	**167 061 155**	0.005	6	14	17	20	10	16	M5
20	½	**167 061 156**	0.005	6	17	19	20	10	16	M5
25	¾	**167 061 157**	0.007	6	19	22	20	10	16	M5
32	1	**167 061 158**	0.006	6	24	27	20	10	16	M5
40	1 ¼	**167 061 159**	0.015	7	34	34	20	10	22	M6
50	1 ½	**167 061 160**	0.017	7	37	37	20	10	22	M6
63	2	**167 061 161**	0.020	9	45	45	20	10	25	M8
75	2 ½	**167 061 162**	0.027	9	52	52	20	10	25	M8
90	3	**167 061 163**	0.039	9	65	65	20	10	28	M8
110	4	**167 061 164**	0.048	9	79	79	20	10	28	M8
125	4 ½	**167 061 165**	0.059	9	88	88	20	10	32	M8
140	5	**167 061 166**	0.065	9	98	98	20	10	32	M8
160	6	**167 061 167**	0.071	9	109	109	20	10	32	M8









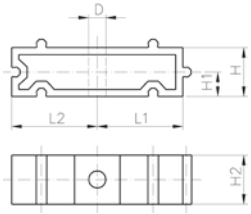
KLIP-IT pipe clip type 061 PE metric

Model:

- Material: clip PE and safety clip PP black, bolts galvanized
- **Minimum order quantity: standard packaging SP**
- Height not designed for ball valve 546 and 543. Please use spacer 73 06 11.

	d (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	SC
*	10	**173 061 003**	0.003	5	8	11	14	20	10	6	12	M4
*	12	**173 061 004**	0.006	5	8	11	14	21	10	6	12	M5
*	16	**173 061 005**	0.006	6	11	14	17	23	10	6	16	M5
*	20	**173 061 006**	0.007	6	11	17	19	25	10	6	16	M5
*	25	**173 061 007**	0.009	6	11	19	22	28	10	6	16	M5
*	32	**173 061 008**	0.011	6	11	24	27	31	10	6	16	M5
	40	**173 061 009**	0.026	7	14	34	34	44	10	7	22	M6
	50	**173 061 010**	0.028	7	14	37	37	40	10	7	22	M6
	63	**173 061 011**	0.047	9	17	45	45	52	10	10	25	M8
	75	**173 061 012**	0.061	9	17	52	52	58	10	10	25	M8
	90	**173 061 013**	0.098	9	17	65	65	64	10	10	28	M8
	110	**173 061 014**	0.125	9	17	79	79	75	10	10	28	M8
	125	**173 061 015**	0.194	9	17	88	88	90	10	10	32	M8
	140	**173 061 016**	0.243	9	17	98	98	110	10	10	32	M8
	160	**173 061 017**	0.254	9	17	109	109	108	10	10	32	M8





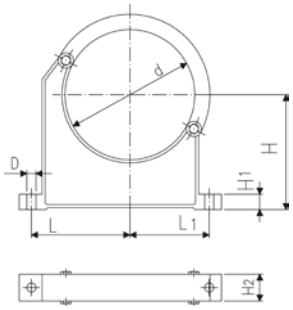
KLIP-IT spacer type 061 PE

Model:

- **Minimum order quantity: standard packaging SP**
- For pipe clips type 061, PE black, UV resistant

d (mm)	Inch (inch)	Code	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
16	3/8	**173 061 155**	0.005	6	14	17	20	10	16	M5
20	1/2	**173 061 156**	0.005	6	17	19	20	10	16	M5
25	3/4	**173 061 157**	0.006	6	19	22	20	10	16	M5
32	1	**173 061 158**	0.008	6	24	27	20	10	16	M5
40	1 1/4	**173 061 159**	0.016	7	34	34	20	10	22	M6
50	1 1/2	**173 061 160**	0.017	7	37	37	20	10	22	M6
63	2	**173 061 161**	0.025	9	45	45	20	10	25	M8
75	2 1/2	**173 061 162**	0.027	9	52	52	20	10	25	M8
90	3	**173 061 163**	0.040	9	65	65	20	10	28	M8
110	4	**173 061 164**	0.050	9	79	79	20	10	28	M8
125	4 1/2	**173 061 165**	0.059	9	88	88	20	10	32	M8
140	5	**173 061 166**	0.065	9	98	98	20	10	32	M8
160	6	**173 061 167**	0.078	9	109	109	20	10	32	M8



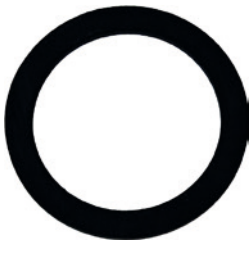


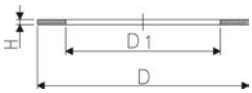
Pipe clip type 060 PP metric

Model:

- Material: clip and safety clip PP black, UV resistant
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Accidental opening of the safety clip is not possible
- Clip and safety clip are not assembled in the packaging.
- Pipes with flanges can be installed directly

d (mm)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC	closest inch (inch)
90	**167 060 038**	0.144	9	89	71	105	15	33	M 8	3
110	**167 060 039**	0.158	9	94	80	115	15	33	M 8	4
125	**167 060 040**	0.249	11	116	91	130	20	35	M10	
140	**167 060 041**	0.260	11	121	99	130	20	35	M10	5
160	**167 060 042**	0.296	11	131	107	148	20	35	M10	6
180	**167 060 043**	0.327	11	143	115	163	20	35	M10	7
200	**167 060 019**	0.539	13	151	120	175	25	39	M12	8
225	**167 060 020**	0.612	13	164	132	175	25	39	M12	8
250	**167 060 021**	0.657	13	183	143	200	25	39	M12	9
280	**167 060 022**	0.722	13	197	156	200	25	39	M12	10
315	**167 060 023**	0.805	13	219	171	225	25	39	M12	12
355	**167 060 024**	1.251	17	275	209	258	30	50	M16	14
400	**167 060 025**	1.031	17	300	228	288	30	50	M16	16





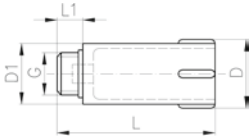
Flat gasket

Model:

- Hardness: EPDM ca. 70° shore
- For wall inlet plugs

G (inch)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)
½	**748 400 001**	0.002	28	22	3



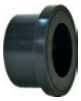


Wall inlet plug PVC-U

Model:

- Gasket: flat gasket code No. 748 400 001, EPDM
- Use: for all fittings with parallel female thread in accordance with ISO 7
- The wall inlet plug has a parallel male thread G

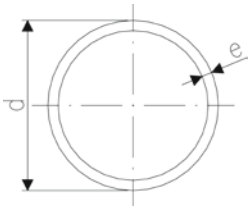
Thread Type	Size (inch)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
G	½	**799 150 003**	0.044	39	32	87	11

PVC-U BS / JIS		Page
	Pipes	319
	Fittings	321
	Adaptor fittings	327
	Unions	331
	Flange adaptors and flanges	337
	Installation fittings	338
	Ball valves type 546 Pro	340
	Ball valves type 182 PVC-U	344
	Ball valves electric type 183	346
	Ball valves electric type 184	348
	Ball valves electric type 104	353
	3-Way ball valves type 543 Pro	355
	3-Way ball valves electric type 167	359
	3-Way ball valves electric type 170	360
	3-Way ball valves pneumatic	362
	Metering ball valves type 523	369
	Lugstyle butterfly valves type 565	371

PVC-U BS / JIS		Page
	Diaphragm valves	387
	Diaphragm valves pneumatic	390
	Diaphragm valves electric	410
	Pressure regulating valves	416
	Process control valves	422
	Cone check valves	425
	Angle seat valves	429
	Variable area flow meters	430
	Strainers	440
	Screen assemblies	441

Pipes



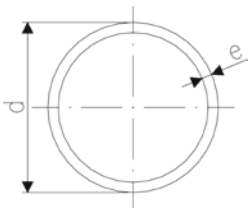


Pipe PVC-U grey class E 15 bar at 20°C

- Material: PVC-U, Polyvinylchloride unplasticised
- Dimensions: BS EN 1452 Part 1 & 2 (formerly BS 3505)
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

Size (inch)	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)	d (mm)
⅜	15	**161 018 080**	0.114	1.5	14.1	17.1
½	15	**161 018 082**	0.161	1.7	17.9	21.3
¾	15	**161 018 083**	0.225	1.9	22.9	26.7
1	15	**161 018 084**	0.325	2.2	29.0	33.4
1 ¼	15	**161 018 085**	0.503	2.7	36.8	42.2
1 ½	15	**161 018 086**	0.659	3.1	42.1	48.3
2	15	**161 018 087**	1.038	3.9	52.5	60.3
2 ½	16	**161 017 112**	1.850	5.6	58.2	75.0
3	15	**161 018 088**	2.245	5.7	77.5	88.9
4	15	**161 018 089**	3.667	7.3	99.7	114.3
5	16	**161 017 116**	6.030	10.3	119.4	140.0



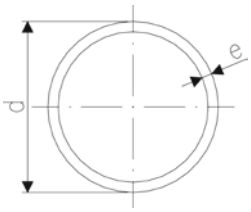


Pipe PVC-U grey class D 12 bar at 20°C

- Material: PVC-U, Polyvinylchloride unplasticised
- Dimensions: BS EN 1452 Part 1 & 2 (formerly BS 3505)
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

Size (inch)	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)	d (mm)
1 ¼	12	**161 018 059**	0.420	2.2	37.8	42.2
1 ½	12	**161 018 060**	0.550	2.5	43.3	48.3
2	12	**161 018 061**	0.900	3.1	54.1	60.3
3	12	**161 018 063**	1.930	4.6	79.7	88.9
4	12	**161 018 064**	3.230	6.0	102.3	114.3



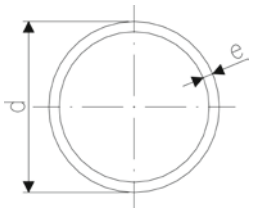


Pipe PVC-U grey class C 9 bar at 20°C

- Material: PVC-U, Polyvinylchloride unplasticised
- Dimensions: BS EN 1452 Part 1 & 2 (formerly BS 3505)
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

Size (inch)	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)	d (mm)
2	9	**161 018 036**	0.694	2.5	55.3	60.3
3	9	**161 018 038**	1.434	3.5	81.9	88.9
4	9	**161 018 039**	2.360	4.5	105.3	114.3
6	9	**161 018 042**	5.058	6.6	155.1	168.3
8	9	**161 018 045**	8.000	7.8	203.5	219.1





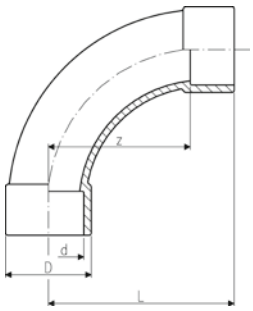
Pipe PVC-U grey class 7 (T) 12 bar at 20°C

- Thick wall pipe to allow for threading
- Material: PVC-U, Polyvinylchloride unplasticised
- Dimensions: BS EN 1452 Part 1 & 2 (formerly BS 3505)
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

Size (inch)	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)	d (mm)
⅜	12	**161 018 255**	0.203	3.8	9.5	17.1
½	12	**161 018 256**	0.298	4.0	13.3	21.3
¾	12	**161 018 257**	0.408	4.2	18.3	26.7
1	12	**161 018 258**	0.599	4.8	23.8	33.4
1 ¼	12	**161 018 259**	0.825	5.2	31.8	42.2
1 ½	12	**161 018 260**	1.010	5.5	37.3	48.3
2	12	**161 018 261**	1.386	6.0	48.3	60.3

Fittings

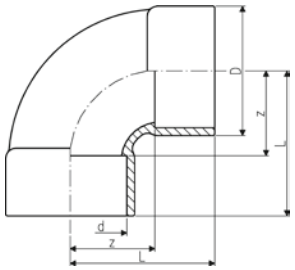




Bend 90° PVC-U BS

d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
	½	15	**721 001 106**	0.026	40	29	58
	¾	15	**721 001 107**	0.047	50	33	71
	1	15	**721 001 108**	0.069	64	39	88
	1 ¼	15	**721 001 109**	0.206	80	54	109
	1 ½	15	**721 001 110**	0.312	100	64	131
	2	15	**721 001 111**	0.556	126	76	163
75	2 ½	16	**721 000 112**	0.798	150	90	194
	3	15	**721 001 113**	1.763	180	113	231
	4	15	**721 001 115**	2.667	220	137	284
140	5	16	**721 000 116**	5.204	280	168	356
	6	15	**721 001 117**	7.700	320	201	411

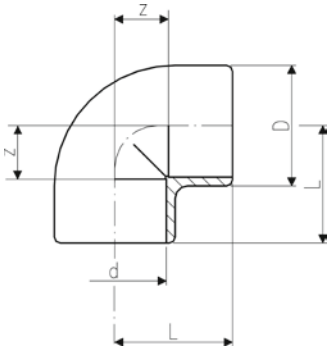




Bend 90° short pattern PVC-U BS

Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
8	9	**721 011 120**	8.297	168	256	287

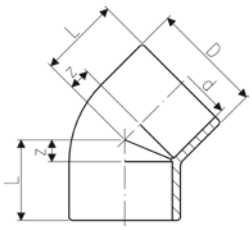




Elbow 90° PVC-U BS

Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
⅜	15	**721 101 105**	0.016	24	25	10
½	15	**721 101 106**	0.022	27	30	13
¾	15	**721 101 107**	0.025	33	34	14
1	15	**721 101 108**	0.038	40	39	17
1 ¼	15	**721 101 109**	0.079	51	49	22
1 ½	15	**721 101 110**	0.116	58	56	26
2	15	**721 101 111**	0.215	72	68	32
2 ½	16	**721 100 112**	0.332	87	83	40
3	15	**721 101 113**	0.606	107	97	46
4	15	**721 101 115**	1.343	137	122	59
5	16	**721 100 116**	1.945	162	146	70
6	15	**721 101 117**	4.220	201	176	86

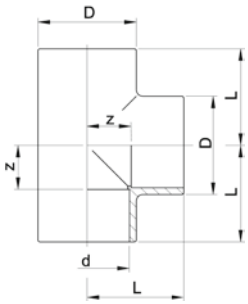




Elbow 45° PVC-U BS

Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
⅜	15	**721 151 105**	0.008	22	19	4
½	15	**721 151 106**	0.012	27	21	5
¾	15	**721 151 107**	0.020	33	25	6
1	15	**721 151 108**	0.037	41	30	8
1 ¼	15	**721 151 109**	0.060	51	37	10
1 ½	15	**721 151 110**	0.089	58	41	11
2	15	**721 151 111**	0.137	72	50	14
2 ½	16	**721 150 112**	0.253	87	61	17
3	15	**721 151 113**	0.534	107	70	20
4	15	**721 151 115**	0.957	134	89	25
5	16	**721 150 116**	1.570	162	108	32
6	15	**721 151 117**	2.900	198	129	38
8	9	**721 151 120**	5.214	250	168	52

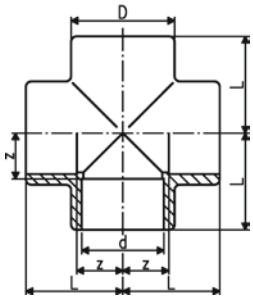




Tee 90° equal PVC-U Inch BS

Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
⅜	15	**721 201 105**	0.018	25	25	10
½	15	**721 201 106**	0.036	30	30	13
¾	15	**721 201 107**	0.051	35	37	16
1	15	**721 201 108**	0.079	43	43	19
1 ¼	15	**721 201 109**	0.105	50	51	22
1 ½	15	**721 201 110**	0.157	57	56	26
2	15	**721 201 111**	0.294	72	68	32
2 ½	16	**721 200 112**	0.476	87	83	39
3	15	**721 201 113**	0.847	107	97	46
4	15	**721 201 115**	1.864	138	122	59
5	16	**721 200 116**	3.410	169	147	71
6	15	**721 201 117**	5.674	202	176	86
8	9	**721 201 120**	10.742	256	233	114

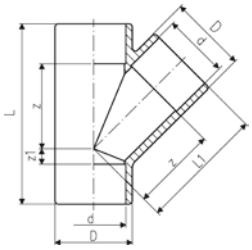




Cross PVC-U BS

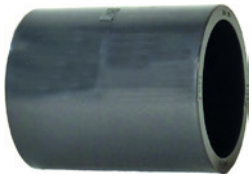
Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
¾	12	**721 301 107**	0.050	36	33	14
1	12	**721 301 108**	0.081	44	39	17
1 ¼	12	**721 301 109**	0.130	53	49	22
1 ½	12	**721 301 110**	0.299	64	60	30
2	12	**721 301 111**	0.556	80	74	37
	10	**721 300 112**	0.725	92	83	40

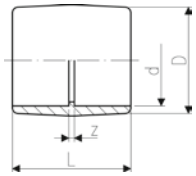




Tee 45° PVC-U Inch BS

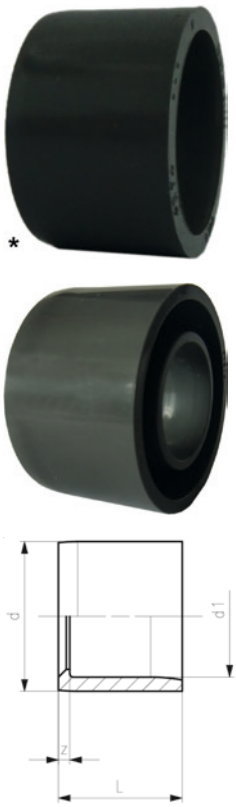
PN (bar)	Size (inch)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)
9	½	**721 251 106**	0.035	28	68	46	30	6
9	¾	**721 251 107**	0.052	33	83	55	35	8
9	1	**721 251 108**	0.090	41	99	67	43	8
9	1 ¼	**721 251 109**	0.145	50	118	82	55	9
9	1 ½	**721 251 110**	0.274	60	140	97	67	13
9	2	**721 251 111**	0.476	74	175	123	87	16
6	2 ½	**721 250 112**	0.816	91	207	145	101	18
6	3	**721 251 113**	1.324	107	245	173	122	20
6	4	**721 251 115**	2.403	134	298	210	147	25
6	5	**721 250 116**	5.628	168	376	266	190	34





Socket equal PVC-U BS

d (mm)	PN (bar)	d (inch)	Size (inch)	Code	Weight (kg)	D (mm)	L (mm)	z (mm)
	15	⅜	⅜	**721 911 105**	0.007	23	32	3
	15	½	½	**721 911 106**	0.011	27	36	3
	15	¾	¾	**721 911 107**	0.018	33	45	3
	15	1	1	**721 911 108**	0.029	41	51	3
	15	1 ¼	1 ¼	**721 911 109**	0.048	51	57	3
	15	1 ½		**721 911 110**	0.070	58	63	3
	15	2		**721 911 111**	0.128	72	77	3
75	16	2 ½		**721 910 112**	0.188	87	92	4
	15	3	3	**721 911 113**	0.350	104	107	7
	15	4	4	**721 911 115**	0.606	134	135	8
140	16	5		**721 910 116**	1.118	162	159	7
	15	6	6	**721 911 117**	1.800	197	192	11
	9	8		**721 911 120**	4.140	253	248	10

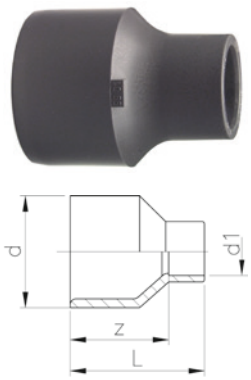


Reducing bush short pattern PVC-U BS

Model:

- With solvent cement spigot and socket BS

	d (inch)	d1 (inch)	PN (bar)	Size (inch)	Code	Weight (kg)	z (mm)	L (mm)
*	½	⅜	15	½	**721 901 334**	0.003	2	18
*	¾	⅜	15	¾	**721 901 338**	0.013	5	21
*	¾	½	15	¾	**721 901 337**	0.006	3	21
	1	⅜	15	1	**721 901 343**	0.013	8	24
	1	½	15	1	**721 901 342**	0.015	6	24
	1	¾	15	1	**721 901 341**	0.010	3	24
	1 ¼	⅜	15	1 ¼	**721 901 349**	0.024	13	29
	1 ¼	½	15	1 ¼	**721 901 348**	0.023	11	29
	1 ¼	¾	15	1 ¼	**721 901 347**	0.025	8	29
	1 ¼	1	15	1 ¼	**721 901 346**	0.018	5	29
	1 ½	½	15	1 ½	**721 901 355**	0.033	13	30
	1 ½	¾	15	1 ½	**721 901 354**	0.034	10	30
*	1 ½	1	15	1 ½	**721 901 353**	0.038	6	30
*	1 ½	1 ¼	15	1 ½	**721 901 352**	0.018	2	30
	2	¾	15		**721 901 361**	0.060	16	37
	2	1	15	2	**721 901 360**	0.063	13	37
	2	1 ¼	15	2	**721 901 359**	0.070	8	37
	2	1 ½	15	2	**721 901 358**	0.051	6	37
	2 ½	2	15	2 ½	**721 901 364**	0.094	8	45
	3	1	15	3	**721 901 374**	0.178	3	50
	3	1 ½	15	3	**721 901 372**	0.176	3	50
	3	2	15	3	**721 901 371**	0.178	3	50
	3	2 ½	15	3	**721 901 370**	0.124	6	51
	4	3	15	4	**721 901 381**	0.340	13	64
	5	4	15	5	**721 901 384**	0.530	13	76
	6	5	15	6	**721 901 388**	0.830	15	91
	8	6	9		**721 901 396**	1.769	33	119



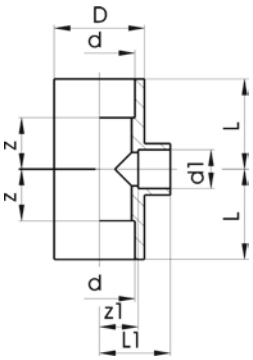
Reducing bush long pattern PVC-U BS

Model:

- With solvent cement spigot and socket metric

d (inch)	d1 (inch)	PN (bar)	Size (inch)	Code	Weight (kg)	z (mm)	L (mm)
5	3	15	5	**721 911 386**	0.730	111	162
6	4	15	6	**721 911 389**	1.312	133	197

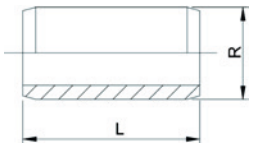




Tee 90° reducing BS

Size (inch)	PN (bar)	d-d (inch)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)
¾	15	¾ - ½	**721 201 134**	0.034	33	33	30	14	14
1	15	1 - ½	**721 201 141**	0.056	41	39	33	17	17
1	15	1 - ¾	**721 201 138**	0.058	41	39	36	17	17
1 ¼	15	1 ¼ - ¾	**721 201 151**	0.132	50	49	42	22	22
1 ¼	15	1 ¼ - 1	**721 201 147**	0.128	62	59	44	29	28
1 ½	15	1 ½ - ½	**721 201 009**	0.206	62	59	50	29	28
1 ½	15	1 ½ - ¾	**721 201 010**	0.185	77	73	53	37	34
1 ½	15	1 ½ - 1	**721 201 164**	0.211	77	73	56	37	34
2	15	2 - ¾	**721 201 011**	0.385	77	73	53	37	32
2	15	2 - 1	**721 201 178**	0.380	77	73	56	37	32
2	15	2 - 1 ½	**721 201 170**	0.511	73	68	68	38	32
4	15	4 - 3	**721 201 137**	1.990	138	122	122	72	59
	16	5 - 2 ½	**721 200 149**	3.319	172	148	122	72	78





Barrel nipple PVC-U BS

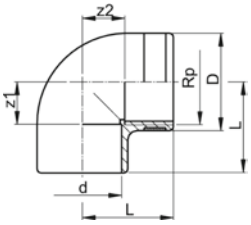
Model:

- With solvent cement spigots on both sides
- For the shortest possible distance between fittings
- Overall length L = 2 x socket length

d (inch)	d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)
⅜			16	**721 901 905**	0.002	29
½			16	**721 901 906**	0.004	33
¾			16	**721 901 907**	0.008	39
1			16	**721 901 908**	0.015	45
1 ¼			16	**721 901 909**	0.027	54
1 ½			16	**721 901 910**	0.050	60
2			16	**721 901 911**	0.098	72
2 ½	75	2 ½	16	**721 900 912**	0.156	88
3			16	**721 901 913**	0.226	101
4			16	**721 901 914**	0.476	126
5	140	5	16	**721 900 916**	0.932	152

Adaptor fittings



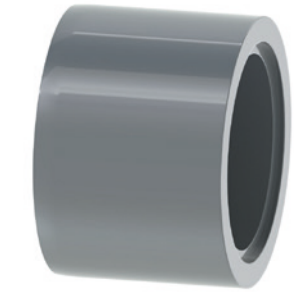


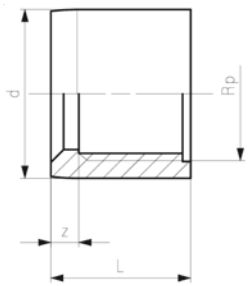
Elbow 90° PVC-U Inch BS Rp

Model:

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

d (inch)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L (mm)
½	Rp	½	15	**721 101 206**	0.022	10	15	30	27
¾	Rp	¾	15	**721 101 207**	0.033	13	19	35	33
1	Rp	1	15	**721 101 208**	0.052	16	24	45	39





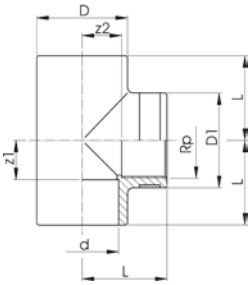
Reducing bush short PVC-U BS Rp

Model:

- With solvent cement spigot BS and parallel female thread Rp
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes
- Connection to plastic thread only

d (inch)	Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	z (mm)	L (mm)
½	Rp	⅜	15	**721 901 534**	0.003	3	18
¾	Rp	½	15	**721 901 537**	0.007	5	21
1	Rp	¾	15	**721 901 541**	0.011	4	24
1	Rp	½	15	**721 901 542**	0.017	8	24





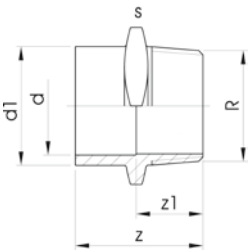
Tee 90° PVC-U BS Rp

Model:

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	D1 (mm)	L (mm)
Rp	⅜	16	⅜	**721 201 205**	0.028	10	14	25	25	26
Rp	½	16	½	**721 201 206**	0.028	10	13	30	26	29
Rp	¾	16	¾	**721 201 207**	0.039	13	15	35	32	33
Rp	1	16	1	**721 201 208**	0.111	17	19	45	40	39



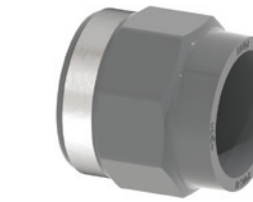


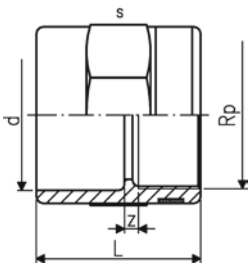
Adaptor socket nipple PVC-U BS R

Model:

- With solvent cement spigot/reducing socket and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

Thread Type	Size (inch)	PN (bar)	d1 (inch)	d (inch)	Code	Weight (kg)	z (mm)	z1 (mm)	s (mm)
R	⅜	15	⅜	¼	**721 911 555**	0.013	36	21	27
R	½	15	½	⅜	**721 911 556**	0.019	43	28	32
R	¾	15	¾	½	**721 911 557**	0.019	48	31	36
R	1	15	1	¾	**721 911 558**	0.040	55	35	46





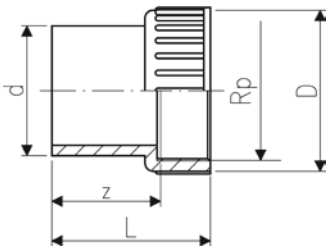
Adaptor socket PVC-U BS Rp

Model:

- With solvent cement socket BS Inch and parallel female thread Rp
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads

Thread Type	Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
Rp		15	⅜	**721 911 005**	0.016	4	31	27
Rp		15	½	**721 911 006**	0.024	4	35	32
Rp	¾	15	¾	**721 911 007**	0.030	3	40	36
Rp	1	15	1	**721 911 008**	0.055	3	45	46
Rp	1 ¼	15	1 ¼	**721 911 009**	0.083	3	51	55
Rp	1 ½	15	1 ½	**721 911 010**	0.127	8	59	65
Rp	2	15	2	**721 911 011**	0.215	8	69	80





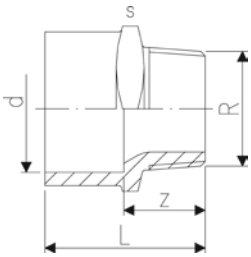
Adaptor PVC-U BS Rp

Model:

- With solvent cement spigot BS Inch and parallel female thread Rp
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes
- Connection to plastic thread only

Thread Type	Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)
Rp	½	9	½	**721 901 406**	0.012	21	28	37
Rp	¾	9	¾	**721 901 407**	0.016	23	34	41
Rp	1	9	1	**721 901 408**	0.036	27	42	48
Rp	1 ¼	9	1 ¼	**721 901 409**	0.065	33	52	56
Rp	1 ½	9	1 ½	**721 901 410**	0.092	38	62	61
Rp	2	9	2	**721 901 411**	0.160	47	77	74





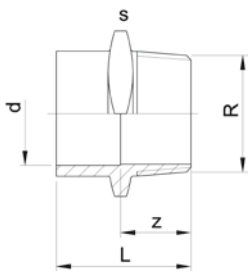
Adaptor bush equal PVC-U BS R

Model:

- With solvent cement socket BS Inch and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

Thread Type	Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
R	⅜	15	⅜	**721 911 705**	0.013	20	34	27
R	½	15	½	**721 911 706**	0.017	24	40	32
R	¾	15	¾	**721 911 707**	0.022	25	44	36
R	1	15	1	**721 911 708**	0.037	28	50	46
R	1 ¼	15	1 ¼	**721 911 709**	0.055	31	57	55
R		15	1 ½	**721 911 710**	0.097	32	63	65
R	2	15	2	**721 911 711**	0.176	38	76	80
R	2 ½	10	2 ½	**721 910 712**	0.227	42	86	90





Adaptor bush reducing PVC-U BS R

Model:

- With solvent cement socket BS Inch and taper male thread R
- Do not use thread sealing pastes that are harmful to PVC-U
- Install with low mechanical stress and avoid large cyclic temperature changes

R (inch)	PN (bar)	d (inch)	Code	Weight (kg)	z (mm)	L (mm)	s (mm)
¾	15	½	**721 911 737**	0.050	22	40	36
1	15	¾	**721 911 741**	0.034	27	48	46
1 ¼	15	1	**721 911 746**	0.052	29	53	55
1 ½	15	1 ¼	**721 911 752**	0.060	29	58	65
1	15	1 ½	**721 911 758**	0.071	34	64	80





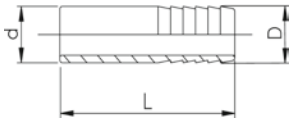
Adaptor nipple PVC-U BS R

Model:

- With solvent cement spigot BS Inch and taper male thread R
- Install with low mechanical stress and avoid large cyclic temperature changes
- Do not use thread sealing pastes that are harmful to PVC-U

Thread Type	Size (inch)	PN (bar)	Code	Weight (kg)	L (mm)
R	⅜	15	**721 913 905**	0.007	43
R	½	15	**721 913 906**	0.013	50
R	¾	15	**721 913 907**	0.022	56
R	1	15	**721 913 908**	0.034	63
R	1 ¼	15	**721 913 909**	0.060	75
R	1 ½	15	**721 913 910**	0.082	88
R	2	15	**721 913 911**	0.111	88
R	3	15	**721 913 913**	0.253	128
R		15	**721 913 915**	0.486	153





Hose connector PVC-U Inch BS

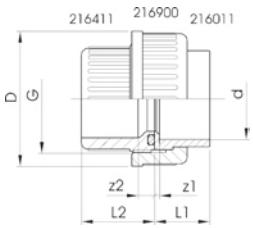
Model:

- With solvent cement spigot and parallel hose connection

d (inch)	PN (bar)	Code	Weight (kg)	D (mm)	L (mm)
¼	15	**721 961 404**	0.005	12	51

Unions





Union for solvent cement jointing PVC-U BS

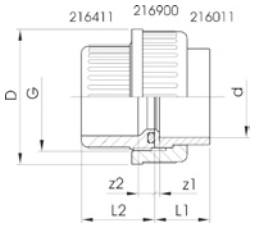
Model:

- Union End: Solvent cement socket BS Inch
- Union Bush: Solvent cement socket BS Inch
- Gasket: O-Ring EPDM code no.748 410 005-014; FKM: 749 410 005-014

d (mm)	Size (inch)	PN (bar)	d (inch)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	⅜	15	⅜	**721 511 105**	0.025	**721 511 130**	0.025
	½	15	½	**721 511 106**	0.040	**721 511 131**	0.040
	¾	15	¾	**721 511 107**	0.054	**721 511 132**	0.064
	1	15	1	**721 511 108**	0.080	**721 511 133**	0.088
	1 ¼	15	1 ¼	**721 511 109**	0.108	**721 511 134**	0.133
	1 ½	15	1 ½	**721 511 110**	0.220	**721 511 135**	0.204
	2	15	2	**721 511 111**	0.400	**721 511 136**	0.366
75	2 ½	10	2 ½	**721 510 112**	0.614	**721 510 137**	0.621

z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G/Tr (inch)
3	8	35	19	24	3/4
3	9	43	21	26	1
3	9	51	24	29	1 1/4
3	9	58	27	33	1 1/2
3	10	72	32	39	2
3	10	83	33	46	2 1/4
3	10	100	40	58	2 3/4
3	18	135	47	62	Tr108x5





Union PVC-U JIS

Model:

- Union End: Solvent cement socket JIS
- Gasket: O-ring EPDM or FKM
- Union Bush: Solvent cement socket JIS

Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
½	15	16	**721 515 106**	0.067	**721 515 156**	0.069
¾	20	16	**721 515 107**	0.056	**721 515 157**	0.057
1	25	16	**721 515 108**	0.084	**721 515 158**	0.084
1 ¼	32	16	**721 515 109**	0.159	**721 515 159**	0.156
1 ½	40	16	**721 515 110**	0.220	**721 515 160**	0.223
2	50	16	**721 515 111**	0.391	**721 515 161**	0.395

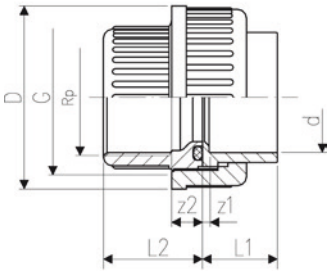
G (inch)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
1 ¼	3	13	51	22	29
1 ¼	3	10	51	22	29
1 ½	3	10	58	25	32
2	3	12	72	29	38
2 ¼	3	14	83	34	45
2 ¾	3	18	100	41	56



Adaptor union PVC-U Inch BS Rp

Model:

- Union End: Solvent cement socket BS Inch
- Union Bush: Parallel female thread Rp
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to PVC-U
- Gasket: O-ring EPDM code no. 748 410 005-011



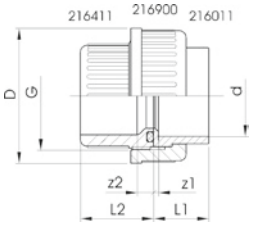
Thread Type	Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G (inch)
Rp	⅜	10	⅜	**721 511 205**	0.025	3	13	35	17	24	3/4
Rp	½	10	½	**721 511 206**	0.042	3	13	43	19	26	1
Rp	¾	10	¾	**721 511 207**	0.068	3	14	51	22	29	11/4
Rp	1	10	1	**721 511 208**	0.094	3	15	58	25	32	11/2
Rp	1 ¼	10	1 ¼	**721 511 209**	0.168	3	19	72	29	38	2
Rp	1 ½	10	1 ½	**721 511 210**	0.223	3	26	83	34	45	21/4
Rp	2	10	2	**721 511 211**	0.405	3	33	100	41	56	23/4



Adaptor union PVC-U JIS metric

Model:

- Union Bush: Solvent cement socket metric
- Union End: Solvent cement socket JIS
- Gasket: O-ring EPDM



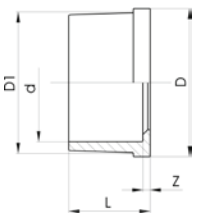
DN (mm)	PN (bar)	Inch (inch)	EPDM Code	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G/Tr (inch)
15	16	1/2	**721 515 606**	0.070	6	13	51	29	22	11/4
20	16	3/4	**721 515 607**	0.058	3	10	51	29	22	11/4
25	16	1	**721 515 608**	0.084	3	10	58	32	25	11/2
32	16	11/4	**721 515 609**	0.152	3	10	72	38	29	2
40	16	11/2	**721 515 610**	0.212	3	10	83	45	34	21/4
50	16	2	**721 515 611**	0.381	3	10	100	56	41	23/4



Union end PVC-U BS

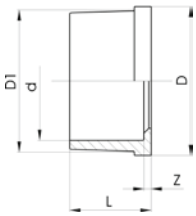
Model:

- Solvent cement socket BS inch



Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
⅜	15	⅜	**721 601 105**	0.003	3	24	22	19
½	15	½	**721 601 106**	0.007	3	30	27	21
¾	15	¾	**721 601 107**	0.013	3	38	36	24
1	15	1	**721 601 108**	0.019	3	44	41	27
1 ¼	15	1 ¼	**721 601 109**	0.033	3	56	53	32
1 ½	15	1 ½	**721 601 110**	0.043	3	62	59	33
2	15	2	**721 601 111**	0.077	3	78	74	40
3	9	3	**721 601 113**	0.269	6	110	105	56





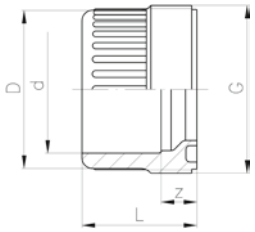
Union end PVC-U JIS

Model:

- Solvent cement socket JIS

DN (mm)	PN (bar)	Size (inch)	Code	Weight (kg)	z (mm)	D (mm)	D1 (mm)	L (mm)
15	16	½	**721 605 106**	0.020	6	39	36	22
20	16	¾	**721 605 107**	0.014	3	39	36	22
25	16	1	**721 605 108**	0.021	3	45	42	25
32	16	1 ¼	**721 605 109**	0.043	3	57	53	29
40	16	1 ½	**721 605 110**	0.049	3	63	59	34
50	16	2	**721 605 111**	0.092	3	78	74	41
65	10	2 ½	**721 605 112**	0.144	3	101	90	47
80	10	3	**721 605 113**	0.140	5	121	108	56
100	10	4	**721 605 114**	0.390	5	146	131	66





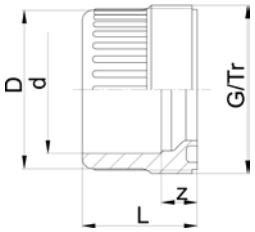
Union bush PVC-U BS

Model:

- Solvent cement socket BS inch
- Jointing face: with O-ring groove
- Gasket: O-ring EPDM code no. 748 410 005-015; d3 748 410 248

Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)	G (inch)
⅜	15	⅜	**721 841 105**	0.010	8	24	24	3/4"
½	15	½	**721 841 106**	0.012	9	29	26	1"
¾	15	¾	**721 841 107**	0.021	9	34	29	1 1/4"
1	15	1	**721 841 108**	0.031	9	42	33	1 1/2"
1 ¼	15	1 ¼	**721 841 109**	0.056	10	52	39	2"
1 ½	15	1 ½	**721 841 110**	0.075	10	62	46	2 1/4"
2	15	2	**721 841 111**	0.139	10	78	58	2 3/4"
3	9	3	**721 641 123**	0.371	19	110	69	Tr 128 x 5





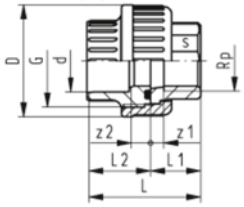
Union bush PVC-U JIS

Model:

- Solvent cement socket JIS
- Jointing face: with O-ring groove
- Gasket: O-ring EPDM code no. 748 410 004-010

DN (mm)	PN (bar)	Inch (inch)	Code	Weight (kg)	z (mm)	D (mm)	L (mm)	G/Tr (inch)
15	16	1/2	**721 640 102**	0.029	13	33	29	11/4
20	16	3/4	**721 645 107**	0.023	10	33	29	11/4
25	16	1	**721 645 108**	0.033	10	41	32	11/2
32	16	11/4	**721 645 109**	0.064	12	51	38	2
40	16	11/2	**721 645 110**	0.081	14	61	45	21/4
50	16	2	**721 645 111**	0.159	18	77	56	23/4





Adaptor union PVC-U BS brass Rp

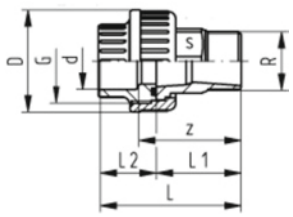
Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket BS Inch
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM Code No. 748 410 006-014; d3 748 410 248

Thread Type	Size (inch)	d (inch)	PN* (bar)	Code	Weight (kg)
Rp	½	½	15	**721 551 506**	0.093
Rp	¾	¾	15	**721 551 507**	0.145
Rp	1	1	15	**721 551 508**	0.193
Rp	1 ¼	1 ¼	15	**721 551 509**	0.344
Rp	1 ½	1 ½	15	**721 551 510**	0.509
Rp	2	2	15	**721 551 511**	0.776
Rp	2 ½	2 ½	10	**721 550 512**	1.360
Rp	3	3	9	**721 551 513**	2.120

L1 (mm)	D (mm)	L (mm)	G (inch)	L2 (mm)	s (mm)	z1 (mm)	z2 (mm)
22	43	48	1	26	25	7	9
25	51	54	1 1/4	29	30	9	8
27	58	60	1 1/2	33	36	8	9
31	72	70	2	39	46	10	11
35	83	75	2 1/4	41	55	13	11
40	100	88	2 3/4	48	65	14	12
47	127	109	Tr 108x5	62	85	16	18
52	150	121	Tr 128x5	69	95	18	19





Adaptor union PVC-U BS brass R

Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket BS inch
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM Code No. 748 410 006-014; d3 748 410 248

Thread Type	Size (inch)	d (inch)	PN* (bar)	Code	Weight (kg)
R	½	½	15	**721 551 906**	0.132
R	¾	¾	15	**721 551 907**	0.196
R	1	1	15	**721 551 908**	0.282
R	1 ¼	1 ¼	15	**721 551 909**	0.519
R	1 ½	1 ½	15	**721 551 910**	0.723
R	2	2	15	**721 551 911**	1.091
R	2 ½	2 ½	10	**721 550 912**	1.706
R	3	3	9	**721 551 913**	2.788

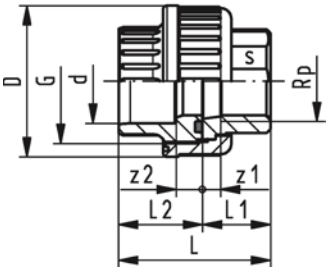
L (mm)	L2 (mm)	L1 (mm)	D (mm)	G (inch)	s (mm)	z (mm)
63	26	37	43	1	25	46
71	29	42	51	1 1/4	30	50
79	33	46	58	1 1/2	36	55
91	39	52	72	2	46	63
97	41	56	83	2 1/4	55	67
115	48	67	100	2 3/4	65	78
139	62	77	127	Tr 108x5	85	95
155	69	86	150	Tr 128x5	95	104



Adaptor union PVC-U BS malleable iron galvanised Rp

Model:

- Union Nut: PVC-U
- Union Bush: Solvent cement socket BS Inch
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM Code No. 748 410 006-014; d3 748 410 248



d (mm)	Thread Type	Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)
	Rp	½	15	½	**721 531 306**	0.120
	Rp	¾	15	¾	**721 531 307**	0.190
	Rp	1	15	1	**721 531 308**	0.250
	Rp	1 ¼	15	1 ¼	**721 531 309**	0.400
	Rp	1 ½	15	1 ½	**721 531 310**	0.510
	Rp	2	15	2	**721 531 311**	0.780
75	Rp	2 ½	10	2 ½	**721 530 312**	1.008
	Rp	3	9	3	**721 531 313**	1.740

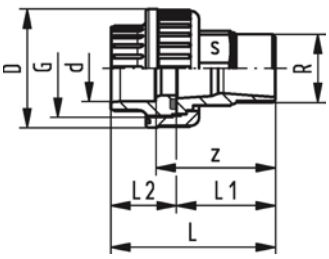
G (inch)	L2 (mm)	s (mm)	z1 (mm)	z2 (mm)	L1 (mm)	D (mm)	L (mm)
1	26	25	9	10	22	43	48
1 1/4	29	31	7	10	22	51	51
1 1/2	33	38	9	10	26	58	58
2	39	48	12	12	31	72	69
2 1/4	46	54	14	14	33	83	78
2 3/4	58	67	11	18	35	100	91
Tr 108x5	62	85	12	18	39	127	101
Tr 128x5	69	96	15	19	45	150	114



Adaptor union PVC-U BS malleable iron galvanised R

Model:

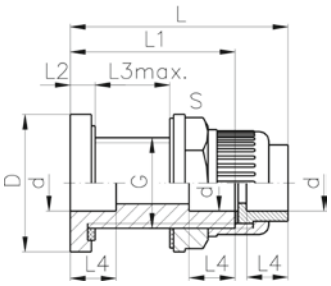
- Union Nut: PVC-U
- Union Bush: Solvent cement socket BS Inch
- Union End: Malleable iron with taper male thread R
- Gasket: O-ring EPDM Code No. 748 410 006-014; d3 748 410 248



d (mm)	Thread Type	Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)
	R	½	15	½	**721 531 806**	0.156
	R	¾	15	¾	**721 531 807**	0.230
	R	1	15	1	**721 531 808**	0.330
	R	1 ¼	15	1 ¼	**721 531 809**	0.480
	R	1 ½	15	1 ½	**721 531 810**	0.683
	R	2	15	2	**721 531 811**	1.082
75	R	2 ½	10	2 ½	**721 530 812**	1.441
	R	3	9	3	**721 531 813**	1.891

D (mm)	L1 (mm)	L2 (mm)	L (mm)	s (mm)	z (mm)	G (inch)
43	40	26	66	25	50	1
51	43	29	72	31	53	1 1/4
58	48	33	80	38	58	1 1/2
72	57	39	95	48	69	2
83	59	46	104	54	73	2 1/4
100	62	58	118	67	80	2 3/4
127	75	62	137	85	93	Tr 108x5
150	80	69	149	96	99	Tr 128x5





Tank adaptor PVC-U
For fix position stop

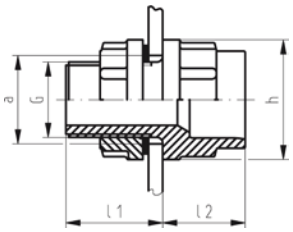
Model:

- End connection: union with solvent cement socket BS Inch
- Gasket: flat gasket EPDM
- Gasket: O-ring FKM code no. 749 410 006-011 (to be ordered separately)

Size (inch)	d (inch)	Code	Weight (kg)
½	½	**161 050 226**	0.122
¾	¾	**161 050 227**	0.100
1	1	**161 050 228**	0.231
1 ¼	1 ¼	**161 050 229**	0.240
1 ½	1 ½	**161 050 230**	0.463
2	2	**161 050 231**	0.692

D (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 max (mm)	L4 (mm)	G (inch)	s (mm)	Diameter of bore in tank side (mm)
56	89	67	11	30	16	1"	46	35
65	97	72	12	32	19	11/4"	50	43
70	103	75	12	33	22	11/2"	60	49
95	111	78	12	32	26	2"	80	61
95	119	82	13	32	31	21/4"	80	67
115	131	87	13	33	38	23/4"	95	83





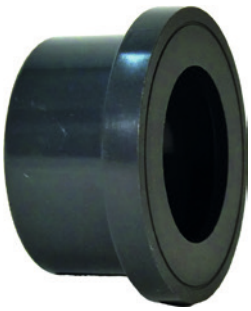
Tank adaptor PVC-U
For adjustable stop

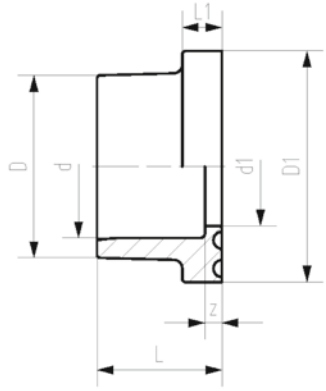
Model:

- With solvent cement socket BS Inch and parallel female thread G
- Gasket: flat gasket EPDM
- Gasket: O-ring FKM code no. 749 410 006-007 (to be ordered separately)

Size (inch)	d (inch)	PN (bar)	Code	Weight (kg)	h (mm)	a (mm)	l2 (mm)	l1 (mm)	G (inch)
	½	15	**161 108 706**	0.050	37	23	24	34	½
¾	¾	15	**161 108 707**	0.048	42	28	29	34	¾

Flange adaptors and flanges





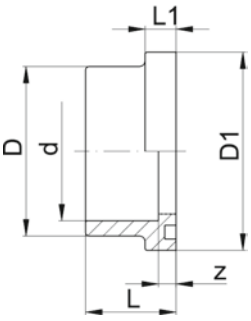
Flange adaptor PVC-U
Combined jointing face flat and serrated BS

Model:

- Counterpart: flange adaptor BS Inch code no. 721 791 106-123, flange adaptor metric code no. 721 800 106-125
- Gasket: flat gasket EPDM code no. 748 400 306-323

d (mm)	Size (inch)	DN (mm)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
	½	15	15	**721 791 106**	0.009	27	34	16.0	21	6	3
	¾	20	15	**721 791 107**	0.014	33	41	21.0	24	7	3
	1	25	15	**721 791 108**	0.023	41	50	28.0	27	7	3
	1 ¼	32	15	**721 791 109**	0.035	50	61	36.0	32	8	3
	1 ½	40	15	**721 791 110**	0.058	61	73	45.0	33	8	3
	2	50	15	**721 791 111**	0.107	77	91	55.5	40	9	3
75	2 ½	65	16	**721 790 112**	0.159	91	106	69.0	47	10	3
	3	80	15	**721 791 113**	0.269	108	125	82.0	56	11	5
	4	100	15	**721 791 115**	0.422	136	155	108.0	69	12	5
140	5	125	16	**721 790 116**	0.725	165	188	132.0	81	14	5
	6	150	15	**721 791 117**	1.172	198	217	160.0	96	16	5
	8	200	9	**721 791 120**	2.028	248	274	210.0	122	20	6
	10	250	9	**721 791 122**	3.020	307	329	260.0	151	23	9
	12	300	6	**721 791 123**	3.400	346	379	302.0	172	27	4





Flange adaptor PVC-U
Jointing face with O-ring groove BS

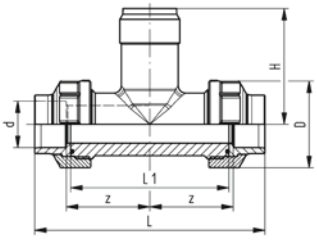
Model:

- Counterpart: flange adaptor BS 721 791 111-120
- Flange: PVC-U ANSI code no. 721 702 211-220, PP/steel ANSI code no. 727 701 211-319, PP-V ANSI code no. 727 701 411-419
- Gasket: O-ring EPDM code no. 748 410 013-163, FKM code no. 749 410 013-163

d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	z (mm)	D (mm)	L (mm)	L1 (mm)
	50	15	**721 811 111**	0.125	91	8	77	46	14
75	65	16	**721 810 112**	0.183	106	8	91	52	15
140	125	16	**721 810 116**	0.804	188	11	165	87	20
	200	9	**721 811 120**	2.070	274	12	248	128	26

Installation fittings





Installation fitting type 310 PVC-U
For socket systems BS

Model:

- Material: PVC-U
- Threaded outlet 1 ¼" NPSM
- Union end with solvent cement socket PVC-U

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

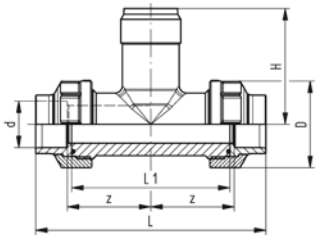
Attention:

- sensor length depends on installation fitting

DN (mm)	Size (inch)	PN (bar)	Type	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
15	½	15	PVAT005	**721 310 306**	0.181	**721 310 336**	0.181
20	¾	15	PVAT007	**721 310 307**	0.244	**721 310 337**	0.244
25	1	15	PVAT010	**721 310 308**	0.333	**721 310 338**	0.299
32	1 ¼	15	PVAT012	**721 310 309**	0.403	**721 310 339**	0.440
40	1 ½	15	PVAT015	**721 310 310**	0.700	**721 310 340**	0.579
50	2	15	PVAT020	**721 310 311**	1.011	**721 310 341**	1.011

DN (mm)	L (mm)	L1 (mm)	D (mm)	H (mm)	z (mm)	Sensor Type
15	131	90	43	76	48	flow X0, pH XX
20	147	100	51	78	53	flow X0, pH XX
25	164	110	58	81	58	flow X0, pH XX
32	171	110	72	85	58	flow X0, pH XX
40	188	120	83	89	63	flow X0, pH XX
50	211	130	100	95	68	flow X0, pH XX





Installation fitting type 310 PVC-U for Socket Systems JIS

Model:

- Threaded outlet 1 ¼" NPSM
- Union end with solvent cement socket PVC-U

Range of use:

- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735

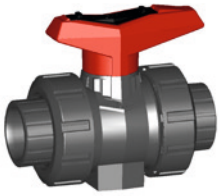
Attention:

- sensor length depends on installation fitting

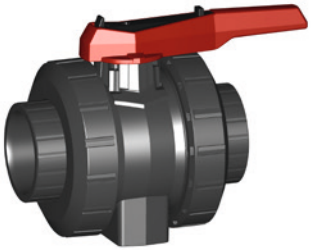
d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	16	**721 310 506**	0.244	**721 310 536**	0.244
25	20	16	**721 310 507**	0.244	**721 310 537**	0.244
32	25	16	**721 310 508**	0.333	**721 310 538**	0.303
40	32	16	**721 310 509**	0.440	**721 310 539**	0.440
50	40	16	**721 310 510**	0.700	**721 310 540**	0.700
63	50	16	**721 310 511**	1.011	**721 310 541**	1.011

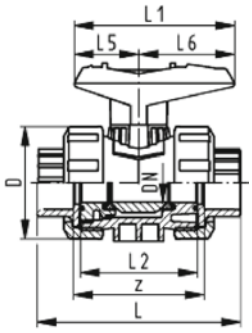
d (mm)	DN (mm)	Sensor Type	L (mm)	z (mm)	D (mm)	H (mm)	L1 (mm)
20	15	X0	144	56	51	78	90
25	20	X0	144	53	51	78	100
32	25	X0	160	58	58	81	110
40	32	X0	168	58	72	85	110
50	40	X0	188	63	83	89	120
63	50	X0	212	68	100	95	130

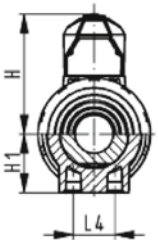
Ball valves type 546 Pro

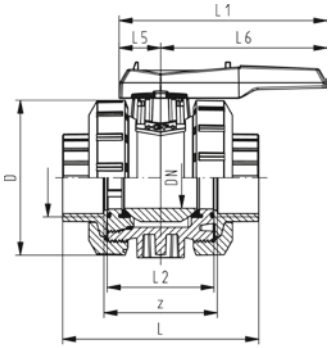


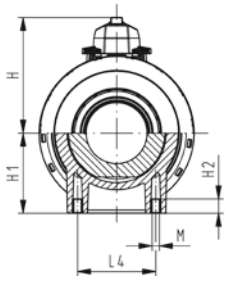
DN10/15 - 50











Ball valve type 546 PVC-U
With solvent cement sockets Inch BS

Model:

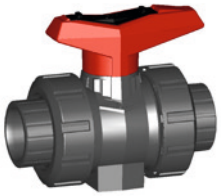
- For easy installation and removal
- Ball seat PTFE
- Without mounting inserts
- Valve end and union nut are **not compatible** with type 346 (DN10/15-50) and type 370 (DN65-100)

Option:

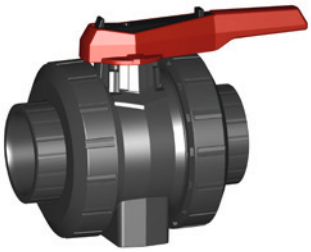
- Individual configuration of the valve
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from GF

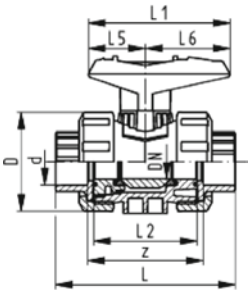
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	⅜	10	16	71	**161 546 201**	0.151	**161 546 211**	0.150
	½	15	16	185	**161 546 202**	0.149	**161 546 212**	0.150
	¾	20	16	350	**161 546 203**	0.229	**161 546 213**	0.230
	1	25	16	700	**161 546 204**	0.334	**161 546 214**	0.336
	1 ¼	32	16	1000	**161 546 205**	0.588	**161 546 215**	0.585
	1 ½	40	16	1600	**161 546 206**	0.843	**161 546 216**	0.815
	2	50	16	3100	**161 546 207**	1.564	**161 546 217**	1.577
75		65	16	5000	**161 546 008**	3.781	**161 546 018**	3.794
	3	80	16	7000	**161 546 209**	6.189	**161 546 219**	7.400
	4	100	16	11000	**161 546 210**	11.600	**161 546 220**	11.600

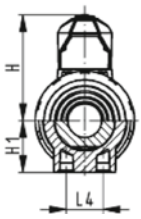
D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)	closest inch (inch)
50	57	27	92	77	56	25	32	45	60	
50	57	27	95	77	56	25	32	45	60	
58	67	30	110	97	65	25	39	58	69	
68	73	36	123	97	71	25	39	58	75	
84	90	44	146	128	85	45	54	74	89	
97	97	51	157	128	89	45	54	74	97	
124	116	64	183	152	101	45	66	87	110	
166	149	85	233	270	136	70	64	206	144	2 ½
200	161	105	254	270	141	70	64	206	151	
238	178	123	301	320	164	120	64	256	174	

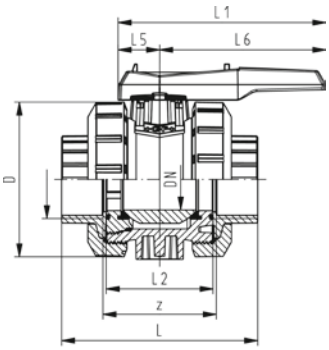


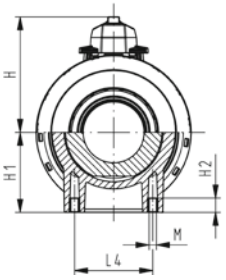
DN10/15 - 50











Ball valve type 546 PVC-U
With solvent cement sockets JIS

Model:

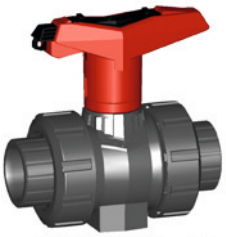
- For easy installation and removal
- Ball seat PTFE
- Without mounting inserts
- Valve end and union nut are **not compatible** with type 346 (DN10/15-50) and type 370 (DN65-100)

Option:

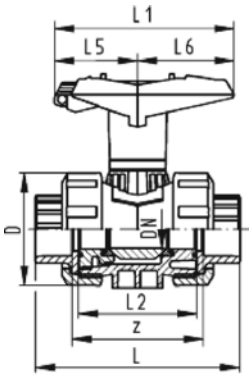
- Individual configuration of the valve
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from GF

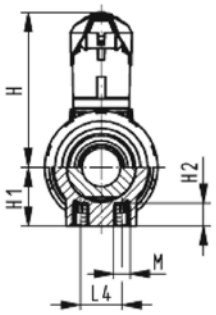
Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
½	15	16	185	**161 546 402**	0.150	**161 546 412**	0.150
¾	20	16	350	**161 546 403**	0.232	**161 546 413**	0.236
1	25	16	700	**161 546 404**	0.340	**161 546 414**	0.343
1 ¼	32	16	1000	**161 546 405**	0.611	**161 546 415**	0.610
1 ½	40	16	1600	**161 546 406**	0.844	**161 546 416**	0.855
2	50	16	3100	**161 546 407**	1.563	**161 546 417**	1.576
2 ½	65	16	5000	**161 546 408**	4.900	**161 546 418**	4.900
3	80	16	7000	**161 546 409**	7.400	**161 546 419**	7.400
4	100	16	11000	**161 546 410**	11.500	**161 546 420**	11.500

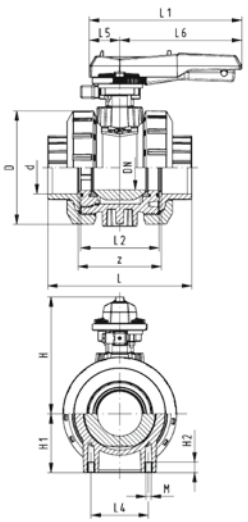
Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)
½	50	57	27	95	77	56	25	32	45	64
¾	58	67	30	110	97	65	25	39	58	72
1	68	73	36	123	97	71	25	39	58	79
1 ¼	84	90	44	146	128	85	45	54	74	94
1 ½	97	97	51	157	128	89	45	54	74	95
2	124	116	64	183	152	101	45	66	87	107
2 ½	166	149	85	233	270	136	70	64	206	144
3	200	161	105	254	270	141	70	64	206	151
4	238	178	123	301	320	164	120	64	256	174











Ball valve type 546 PVC-U
With lockable handle
With solvent cement sockets Inch BS

Model:

- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Valve end and union nut are **not compatible** with type 346 (DN10/15-50) and type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

- Individual configuration of the valve
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from GF

Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
⅜	10	16	71	**161 546 221**	0.165	**161 546 231**	0.165
½	15	16	185	**161 546 222**	0.164	**161 546 232**	0.165
¾	20	16	350	**161 546 223**	0.255	**161 546 233**	0.255
1	25	16	700	**161 546 224**	0.358	**161 546 234**	0.355
1 ¼	32	16	1000	**161 546 225**	0.625	**161 546 235**	0.625
1 ½	40	16	1600	**161 546 226**	0.855	**161 546 236**	0.855
2	50	16	3100	**161 546 227**	1.605	**161 546 237**	1.535
2 ½	65	16	5000	**161 546 088**	5.200	**161 546 098**	5.200
3	80	16	7000	**161 546 229**	7.700	**161 546 239**	7.700

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
⅜	50	79	27	12	92	87	56	25	42	45	M6	60
½	50	79	27	12	95	87	56	25	42	45	M6	60
¾	58	88	30	12	110	108	65	25	50	58	M6	69
1	68	94	36	12	123	108	71	25	50	58	M6	75
1 ¼	84	113	44	15	146	140	85	45	66	75	M8	89
1 ½	97	119	51	15	157	140	89	45	66	75	M8	97
2	124	141	64	15	183	165	101	45	78	87	M8	110
2 ½	166	224	85	15	233	270	136	70	64	206	M8	144
3	200	235	105	15	254	270	141	70	64	206	M8	151



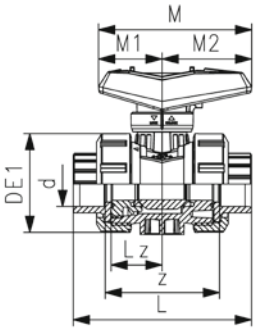
PVC-U Ball Valve type 546 Pro
With solvent cement sockets PVC-U JIS

Model:

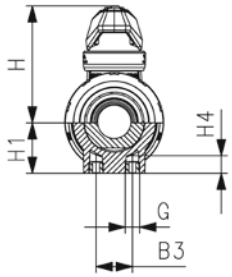
- Lockable lever as standard
- Integrated stainless steel mounting inserts
- Ball seat PTFE
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

Option:

- Interface module for position feedback sensor with LED (PNP, NPN and NAMUR)
- Manual spring return lever "Dead man" (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of valves possible



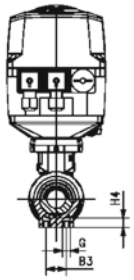
d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
75	2 ½	65	16	5000	**161 546 448**	3.800
90	3	80	16	7000	**161 546 449**	7.700
110	4	100	16	11000	**161 546 450**	11.900

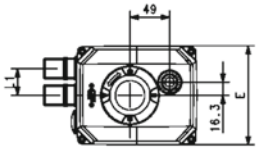


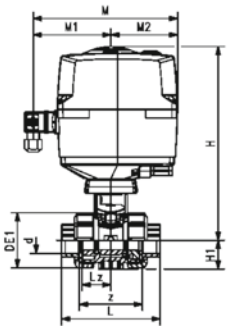
d (mm)	B3 (mm)	DE1 (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
75	70	166	M8	169	85	15	233	68	270	64	205	144
90	70	200	M8	180	105	15	254	71	270	64	205	151
110	120	238	M12	194	123	22	301	82	326	71	255	174

Ball valves type 182 PVC-U









PVC-U Ball valve type 182
24V
With manual emergency override
With solvent cement sockets PVC-U ASTM

Model:

- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 182 022**	2.100	**199 182 032**	2.100
20	15	½	10	185	**199 182 023**	2.100	**199 182 033**	2.100
25	20	¾	10	350	**199 182 024**	2.200	**199 182 034**	2.200
32	25	1	10	700	**199 182 025**	2.300	**199 182 035**	2.300
40	32	1 ¼	10	1000	**199 182 026**	2.600	**199 182 036**	2.600
50	40	1 ½	10	1600	**199 182 027**	3.000	**199 182 037**	3.000
63	50	2	10	3100	**199 182 028**	3.800	**199 182 038**	3.800
75	65	2 ½	10	5000	**199 182 029**	7.400	**199 182 039**	7.400
90	80	3	10	7000	**199 182 030**	9.800	**199 182 040**	9.800
110	100	4	10	11000	**199 182 031**	13.900	**199 182 041**	13.900

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	92	33	28	180	97	83	64
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	64
25	EA25	25	58	122	M6	231	30	12	110	33	33	180	97	83	72
32	EA25	25	68	122	M6	237	36	12	123	33	36	180	97	83	79
40	EA25	45	84	122	M8	243	44	15	146	33	43	180	97	83	94
50	EA25	45	97	122	M8	249	51	15	157	33	45	180	97	83	95
63	EA25	45	124	122	M8	264	64	15	183	33	51	180	97	83	107
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	144
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	151
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	174



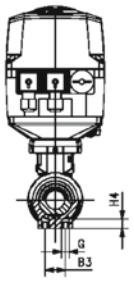
PVC-U Ball valve type 182
100-230V
With manual emergency override
With solvent cement sockets PVC-U ASTM

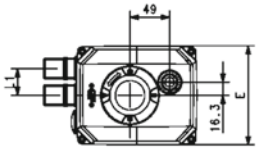
Model:

- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts
- IP68 Rating

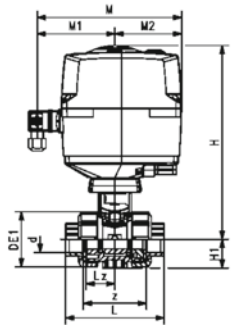
Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card





d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 182 002**	2.100	**199 182 012**	2.100
20	15	½	10	185	**199 182 003**	2.474	**199 182 013**	2.100
25	20	¾	10	350	**199 182 004**	2.200	**199 182 014**	2.200
32	25	1	10	700	**199 182 005**	2.300	**199 182 015**	2.300
40	32	1 ¼	10	1000	**199 182 006**	2.600	**199 182 016**	2.600
50	40	1 ½	10	1600	**199 182 007**	3.000	**199 182 017**	3.000
63	50	2	10	3100	**199 182 008**	3.800	**199 182 018**	3.800
75	65	2 ½	10	5000	**199 182 009**	7.400	**199 182 019**	7.400
90	80	3	10	7000	**199 182 010**	9.800	**199 182 020**	9.800
110	100	4	10	11000	**199 182 011**	13.900	**199 182 021**	13.900



d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	92	33	28	180	97	83	64
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	64
25	EA25	25	58	122	M6	231	30	12	110	33	33	180	97	83	72
32	EA25	25	68	122	M6	237	36	12	123	33	36	180	97	83	79
40	EA25	45	84	122	M8	243	44	15	146	33	43	180	97	83	94
50	EA25	45	97	122	M8	249	51	15	157	33	45	180	97	83	95
63	EA25	45	124	122	M8	264	64	15	183	33	51	180	97	83	107
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	144
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	151
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	174

Ball valves electric type 183



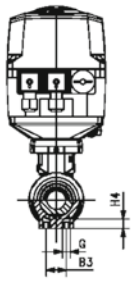
PVC-U Ball valve type 183
100-230V
With manual emergency override
With solvent cement sockets PVC-U BS

Model:

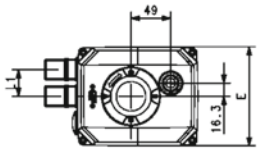
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

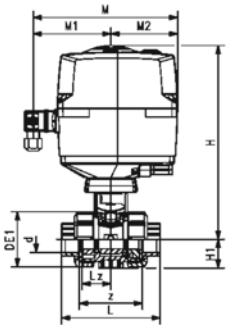
Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 183 002**	2.100	**199 183 012**	2.100
20	15	½	10	185	**199 183 003**	2.100	**199 183 013**	2.100
25	20	¾	10	350	**199 183 004**	2.200	**199 183 014**	2.200
32	25	1	10	700	**199 183 005**	2.661	**199 183 015**	2.300
40	32	1 ¼	10	1000	**199 183 006**	2.600	**199 183 016**	2.600
50	40	1 ½	10	1600	**199 183 007**	3.000	**199 183 017**	3.000
63	50	2	10	3100	**199 183 008**	3.800	**199 183 018**	3.800
75	65	2 ½	10	5000	**199 183 009**	7.400	**199 183 019**	7.400
90	80	3	10	7000	**199 183 010**	9.800	**199 183 020**	9.800
110	100	4	10	11000	**199 183 011**	13.900	**199 183 021**	13.900





d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	92	33	28	180	97	83	64
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	64
25	EA25	25	58	122	M6	231	30	12	110	33	33	180	97	83	72
32	EA25	25	68	122	M6	237	36	12	123	33	36	180	97	83	79
40	EA25	45	84	122	M8	243	44	15	146	33	43	180	97	83	94
50	EA25	45	97	122	M8	249	51	15	157	33	45	180	97	83	95
63	EA25	45	124	122	M8	264	64	15	183	33	51	180	97	83	107
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	144
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	151
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	174



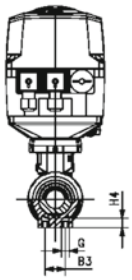
PVC-U Ball valve type 183
24V
With manual emergency override
With solvent cement sockets PVC-U BS

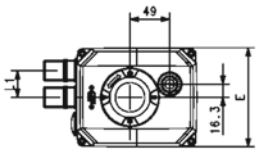
Model:

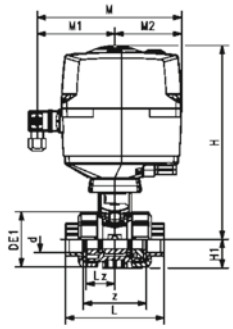
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	70	**199 183 042**	2.100	**199 183 052**	2.100
20	15	½	10	185	**199 183 043**	2.100	**199 183 053**	2.100
25	20	¾	10	350	**199 183 044**	2.200	**199 183 054**	2.200
32	25	1	10	700	**199 183 045**	2.642	**199 183 055**	2.300
40	32	1 ¼	10	1000	**199 183 046**	2.600	**199 183 056**	2.899
50	40	1 ½	10	1600	**199 183 047**	3.000	**199 183 057**	3.000
63	50	2	10	3100	**199 183 048**	3.800	**199 183 058**	3.800
75	65	2 ½	10	5000	**199 183 049**	7.400	**199 183 059**	7.400
90	80	3	10	7000	**199 183 050**	9.442	**199 183 060**	9.800
110	100	4	10	11000	**199 183 051**	13.900	**199 183 061**	13.900

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
16	EA25	25	50	122	M6	227	27	12	92	33	28	180	97	83	64
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	64
25	EA25	25	58	122	M6	231	30	12	110	33	33	180	97	83	72
32	EA25	25	68	122	M6	237	36	12	123	33	36	180	97	83	79
40	EA25	45	84	122	M8	243	44	15	146	33	43	180	97	83	94
50	EA25	45	97	122	M8	249	51	15	157	33	45	180	97	83	95
63	EA25	45	124	122	M8	264	64	15	183	33	51	180	97	83	107
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	144
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	151
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	174

Ball valves electric type 184



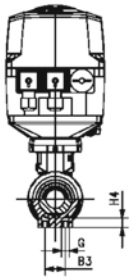
PVC-U Ball valve type 184
100-230V
With manual emergency override
With solvent cement sockets PVC-U JIS

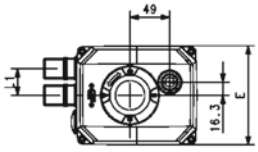
Model:

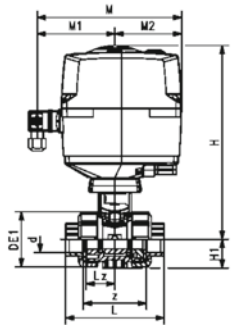
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	**199 184 003**	2.100	**199 184 013**	2.100
25	20	¾	10	350	**199 184 004**	2.618	**199 184 014**	2.200
32	25	1	10	700	**199 184 005**	2.737	**199 184 015**	2.300
40	32	1 ¼	10	1000	**199 184 006**	2.600	**199 184 016**	2.600
50	40	1 ½	10	1600	**199 184 007**	3.238	**199 184 017**	3.000
63	50	2	10	3100	**199 184 008**	3.800	**199 184 018**	3.800
75	65	2 ½	10	5000	**199 184 009**	7.300	**199 184 019**	7.300
90	80	3	10	7000	**199 184 010**	9.800	**199 184 020**	9.800
110	100	4	10	11000	**199 184 011**	14.000	**199 184 021**	14.000

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
20	EA25	25	50	122	M6	227	27	12	95	33	28	180	97	83	64
25	EA25	25	58	122	M6	231	30	12	110	33	33	180	97	83	72
32	EA25	25	68	122	M6	237	36	12	123	33	36	180	97	83	79
40	EA25	45	84	122	M8	243	44	15	146	33	43	180	97	83	94
50	EA25	45	97	122	M8	249	51	15	157	33	45	180	97	83	95
63	EA25	45	124	122	M8	264	64	15	183	33	51	180	97	83	107
75	EA45	70	166	122	M8	313	85	15	233	33	68	180	98	82	144
90	EA45	70	200	122	M8	325	105	15	254	33	71	180	98	82	151
110	EA120	120	238	122	M12	363	123	22	301	33	82	180	98	82	174



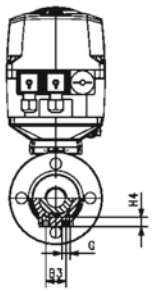
PVC-U Ball valve type 184
100-230V
With manual emergency override
With fixed flanges PVC-U JIS

Model:

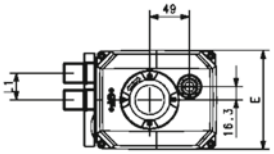
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

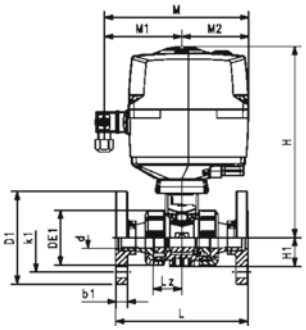
- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	**199 184 043**	2.300	**199 184 053**	2.300
25	20	¾	10	350	**199 184 044**	2.500	**199 184 054**	2.500
32	25	1	10	700	**199 184 045**	2.700	**199 184 055**	2.700
40	32	1 ¼	10	1000	**199 184 046**	3.200	**199 184 056**	3.200
50	40	1 ½	10	1600	**199 184 047**	3.700	**199 184 057**	3.700
63	50	2	10	3100	**199 184 048**	4.800	**199 184 058**	4.800



d (mm)	Actuator	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)
20	EA25	12	25	95	50	122	M6	227	27	12	70	130	33	28	180
25	EA25	12	25	105	58	122	M6	231	30	12	75	150	33	33	180
32	EA25	14	25	115	68	122	M6	237	36	12	90	160	33	36	180
40	EA25	16	45	140	84	122	M8	243	44	15	100	180	33	43	180
50	EA25	16	45	150	97	122	M8	249	51	15	105	200	33	45	180
63	EA25	18	45	165	124	122	M8	264	64	15	120	230	33	51	180



d (mm)	M1 (mm)	M2 (mm)
20	97	83
25	97	83
32	97	83
40	97	83
50	97	83
63	97	83



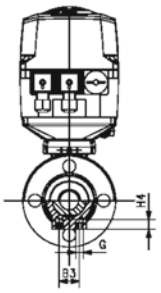
PVC-U Ball valve type 184
100-230V
With manual emergency override
With backing flanges PVC-U JIS with PVC-U

Model:

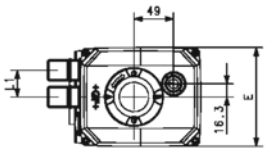
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

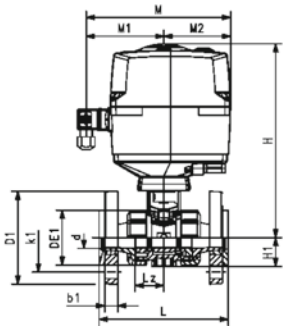
- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
75	65	2 ½	10	5000	**199 184 349**	9.800	**199 184 359**	9.800
90	80	3	10	7000	**199 184 350**	13.300	**199 184 360**	13.300
110	100	4	10	11000	**199 184 351**	18.900	**199 184 361**	18.900



d (mm)	Actuator	b1 (mm)	B3 (mm)	D1 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	k1 (mm)	L (mm)	L1 (mm)	Lz (mm)	M (mm)
75	EA45	18	70	166	166	122	M8	313	85	15	140	290	33	68	180
90	EA45	20	70	200	200	122	M8	325	105	15	150	310	33	71	180
110	EA120	20	120	238	238	122	M12	363	123	22	175	350	33	82	180



d (mm)	M1 (mm)	M2 (mm)
75	98	82
90	98	82
110	98	82



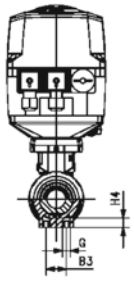
PVC-U Ball valve type 184
24V
With manual emergency override
With solvent cement sockets PVC-U JIS

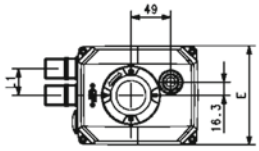
Model:

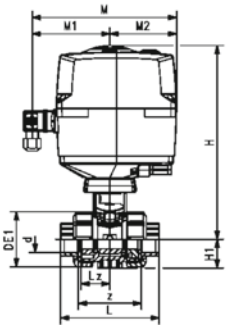
- IP68 Rating
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card



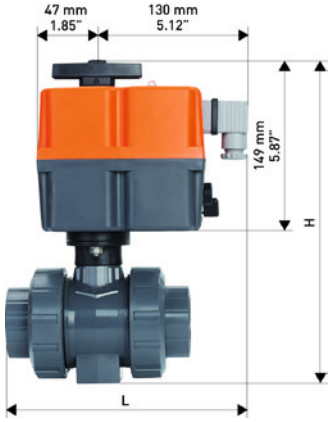


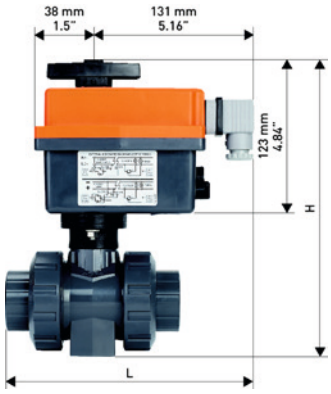


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	185	**199 184 023**	2.100	**199 184 033**	2.100
25	20	¾	10	350	**199 184 024**	2.200	**199 184 034**	2.200
32	25	1	10	700	**199 184 025**	2.300	**199 184 035**	2.300
40	32	1 ¼	10	1000	**199 184 026**	2.600	**199 184 036**	2.600
50	40	1 ½	10	1600	**199 184 027**	3.000	**199 184 037**	3.000
63	50	2	10	3100	**199 184 028**	3.800	**199 184 038**	3.800
75	65	2 ½	10	5000	**199 184 029**	7.300	**199 184 039**	7.300
90	80	3	10	7000	**199 184 030**	9.800	**199 184 040**	9.800
110	100	4	10	11000	**199 184 031**	14.000	**199 184 041**	14.000

d (mm)	Actuator	B3 (mm)	DE1 (mm)	E (mm)	G (mm)	H (mm)	H1 (mm)	H4 (mm)	L (mm)	L1 (mm)	M (mm)	M1 (mm)	M2 (mm)	z (mm)
20	EA25	25	50	122	M6	227	27	12	95	33	180	97	83	64
25	EA25	25	58	122	M6	231	30	12	110	33	180	97	83	72
32	EA25	25	68	122	M6	237	36	12	123	33	180	97	83	79
40	EA25	45	84	122	M8	243	44	15	146	33	180	97	83	94
50	EA25	45	97	122	M8	249	51	15	157	33	180	97	83	95
63	EA25	45	124	122	M8	264	64	15	183	33	180	97	83	107
75	EA45	70	166	122	M8	313	85	15	233	33	180	98	82	144
90	EA45	70	200	122	M8	325	105	15	254	33	180	98	82	151
110	EA120	120	238	122	M12	363	123	22	301	33	180	98	82	174

Ball valves electric type 104





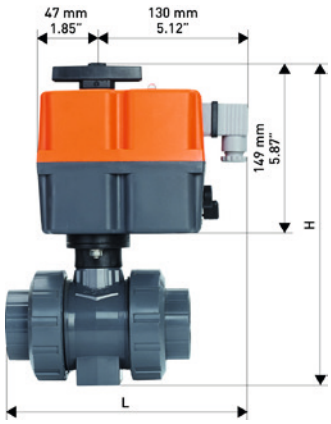
Ball valve type 104 PVC-U 100-230V
With solvent cement sockets Inch BS

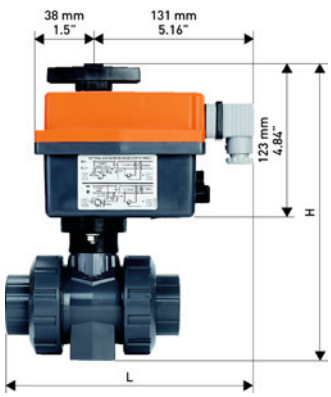
Model:

- Voltage according data sheet
- Control range 90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Voltage	EPDM Code	Weight (kg)
16	10	⅜	10	70	100-230V	**199 104 402**	0.995
20	15	½	10	185	100-230V	**199 104 403**	0.995
25	20	¾	10	350	100-230V	**199 104 404**	1.050
32	25	1	10	700	100-230V	**199 104 405**	1.120
40	32	1 ¼	10	1000	100-230V	**199 104 406**	1.290
	40		10	1600	24-240V	**199 104 447**	2.010
	50		10	3100	24-240V	**199 104 448**	2.395

H (mm)	L (mm)	Type of actuator	Inch (inch)	B (mm)
194	178.5	10Nm	3/8	50
194	178.5	10Nm	1/2	50
207	186.0	10Nm	3/4	58
217	192.5	10Nm	1	68
236	204.5	10Nm	1 1/4	84
275	208.5	20Nm	1 1/2	97
307	221.5	20Nm	2	124





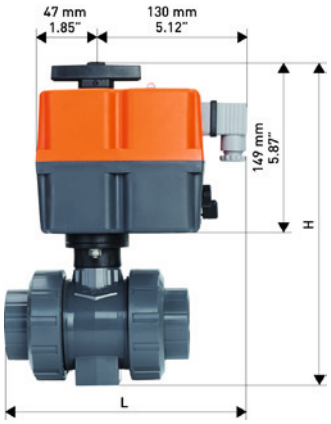
Ball valve type 104 PVC-U 100-230V
With solvent cement sockets JIS

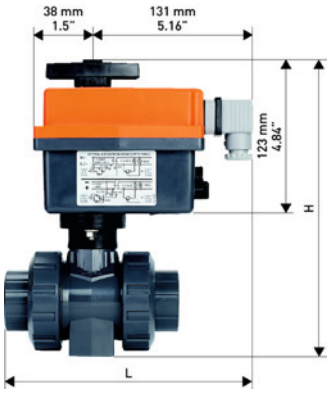
Model:

- Voltage according data sheet
- Control range 90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Voltage	EPDM Code	Weight (kg)	FKM Code
20	15	½	10	185	100-230V	**199 104 483**	0.995	**199 104 493**
25	20	¾	10	350	100-230V	**199 104 484**	1.050	**199 104 494**
32	25	1	10	700	100-230V	**199 104 485**	1.120	**199 104 495**
40	32	1 ¼	10	1000	100-230V	**199 104 486**	1.290	**199 104 496**
	40		10	1600	24-240V	**199 104 867**	2.010	**199 104 877**
	50		10	3100	24-240V	**199 104 868**	2.395	**199 104 878**

H (mm)	L (mm)	Type of actuator	Inch (inch)	B (mm)
194	178.5	10Nm	1/2	50
204	186.0	10Nm	3/4	58
217	192.5	10Nm	1	68
236	204.5	10Nm	1 1/4	84
275	208.5	20Nm	1 1/2	97
307	221.5	20Nm	2	124





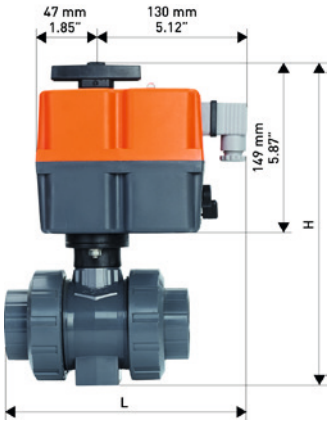
Ball valve type 104 PVC-U 24V
With solvent cement sockets Inch BS

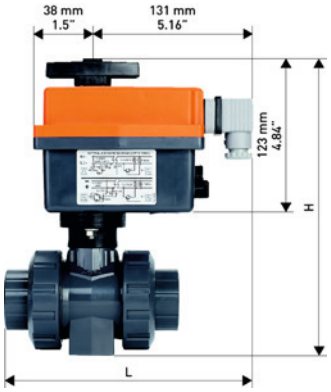
Model:

- Voltage according data sheet
- Control range 90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Voltage	EPDM Code	Weight (kg)	FKM Code
16	10	⅜	10	70	24V	**199 104 442**	0.995	**199 104 452**
20	15	½	10	185	24V	**199 104 443**	0.995	**199 104 453**
25	20	¾	10	350	24V	**199 104 444**	1.050	**199 104 454**
32	25	1	10	700	24V	**199 104 445**	1.120	**199 104 455**
40	32	1 ¼	10	1000	24V	**199 104 446**	1.290	**199 104 456**
	40		10	1600	24-240V	**199 104 447**	2.010	**199 104 457**
	50		10	3100	24-240V	**199 104 448**	2.395	**199 104 458**

H (mm)	L (mm)	Type of actuator	Inch (inch)	B (mm)
194	178.5	10Nm	3/8	50
194	178.5	10Nm	1/2	50
207	186.0	10Nm	3/4	58
217	192.5	10Nm	1	68
236	204.5	10Nm	1 1/4	84
275	208.5	20Nm	1 1/2	97
307	221.5	20Nm	2	124





Ball valve type 104 PVC-U 24V
With solvent cement sockets JIS

Model:

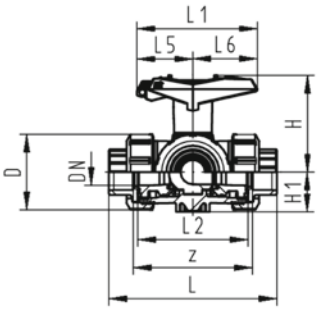
- Voltage according data sheet
- Control range 90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts

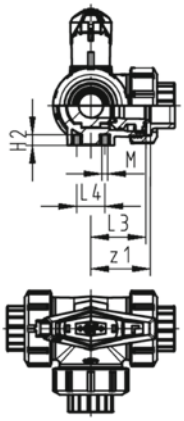
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Voltage	EPDM Code	Weight (kg)	FKM Code
	15		10	185	24V	**199 104 863**	0.995	**199 104 873**
25	20	¾	10	350	24V	**199 104 864**	1.050	**199 104 874**
32	25	1	10	700	24V	**199 104 865**	1.120	**199 104 875**
40	32	1 ¼	10	1000	24V	**199 104 866**	1.290	**199 104 876**
	40		10	1600	24-240V	**199 104 867**	2.010	**199 104 877**
	50		10	3100	24-240V	**199 104 868**	2.395	**199 104 878**

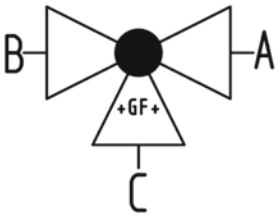
H (mm)	L (mm)	Type of actuator	Inch (inch)	B (mm)
194	178.5	10Nm	1/2	50
207	186.0	10Nm	3/4	58
217	192.5	10Nm	1	68
236	204.5	10Nm	1 1/4	84
275	208.5	20Nm	1 1/2	97
307	221.5	20Nm	2	124

3-Way ball valves type 543 Pro











3-Way ball valve type 543 PVC-U
Horizontal/L-port
With lockable handle
With solvent cement sockets BS

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-C opened, see flow scheme

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	**161 543 861**	0.259	**161 543 871**	0.259
20	15	½	10	75	**161 543 862**	0.265	**161 543 872**	0.265
25	20	¾	10	150	**161 543 863**	0.378	**161 543 873**	0.378
32	25	1	10	280	**161 543 864**	0.568	**161 543 874**	0.568
40	32	1 ¼	10	480	**161 543 865**	0.961	**161 543 875**	0.961
50	40	1 ½	10	620	**161 543 866**	1.413	**161 543 876**	1.413
63	50	2	10	1230	**161 543 867**	2.736	**161 543 877**	2.736

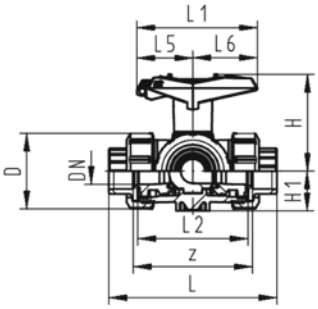
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	79	28	8	109	87	73	36	25	42	45	6	77	38
50	79	28	8	112	87	73	36	25	42	45	6	77	38
58	88	32	8	131	108	86	43	25	50	58	6	90	45
68	94	36	8	151	108	99	50	25	50	58	6	103	52
84	113	45	9	181	141	120	60	45	66	75	8	124	62
97	119	51	9	205	141	137	69	45	66	75	8	145	73
124	141	65	9	261	165	179	89	45	78	87	8	189	94

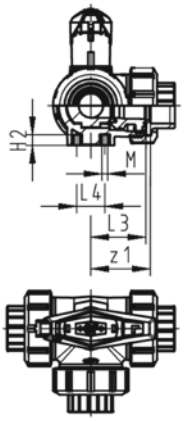


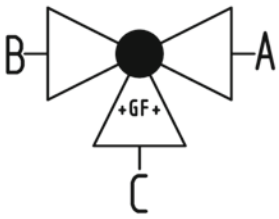
3-Way ball valve type 543 PVC-U
Horizontal/L-port
With lockable handle
With solvent cement sockets JIS

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-C opened, see flow scheme





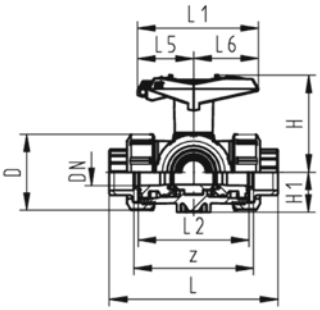


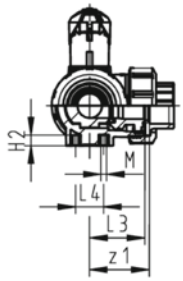


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	75	**161 543 522**	0.265	**161 543 532**	0.265
25	20	¾	10	150	**161 543 523**	0.378	**161 543 533**	0.378
32	25	1	10	280	**161 543 524**	0.568	**161 543 534**	0.568
40	32	1 ¼	10	480	**161 543 525**	0.961	**161 543 535**	0.961
50	40	1 ½	10	620	**161 543 526**	1.413	**161 543 536**	1.413
63	50	2	10	1230	**161 543 527**	2.736	**161 543 537**	2.736

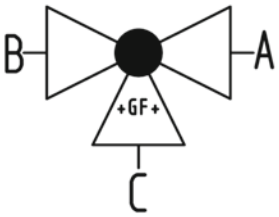
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	79	28	8	112	87	73	36	25	42	45	6	81	40
58	88	32	8	131	108	86	43	25	50	58	6	94	47
68	94	36	8	151	108	99	50	25	50	58	6	107	54
84	113	45	9	181	141	120	60	45	66	75	8	130	65
97	119	51	9	205	141	137	69	45	66	75	8	143	72
124	141	65	9	261	165	179	89	45	78	87	8	185	92

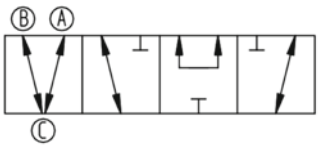












3-Way ball valve type 543 PVC-U
Horizontal/T-port
With lockable handle
With solvent cement sockets BS

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-B-C opened, see flow scheme

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	⅜	10	10	140	**161 543 881**	0.258	**161 543 891**	0.258
20	½	15	10	200	**161 543 882**	0.264	**161 543 892**	0.264
25	¾	20	10	470	**161 543 883**	0.376	**161 543 893**	0.376
	1	25	10	793	**161 543 884**	0.561	**161 543 894**	0.561
40	1 ¼	32	10	1290	**161 543 885**	0.950	**161 543 895**	0.950
50	1 ½	40	10	1910	**161 543 886**	1.392	**161 543 896**	1.392
63	2	50	10	3100	**161 543 887**	2.691	**161 543 897**	2.691

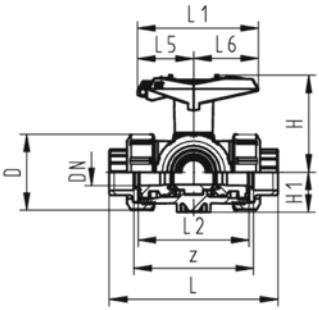
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	79	28	8	109	87	73	36	25	42	45	6	77	38
50	79	28	8	112	87	73	36	25	42	45	6	77	38
58	88	32	8	131	108	86	43	25	50	58	6	90	45
68	94	36	8	151	108	99	50	25	50	58	6	103	52
84	113	45	9	181	141	120	60	45	66	75	8	124	62
97	119	51	9	205	141	137	69	45	66	75	8	145	73
124	141	65	9	261	165	179	89	45	78	87	8	189	94

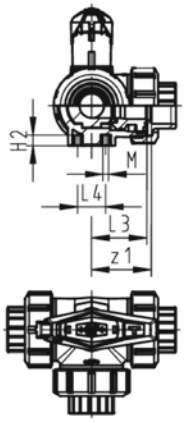


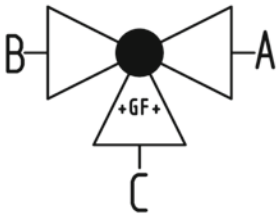
3-Way ball valve type 543 PVC-U
Horizontal/T-port
With lockable handle
With solvent cement sockets JIS

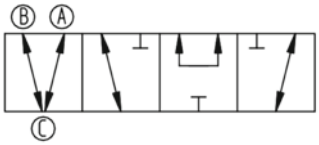
Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-B-C opened, see flow scheme







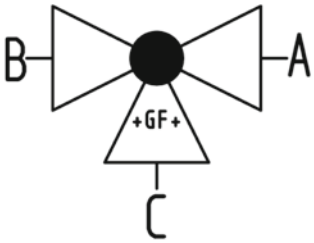


d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	200	**161 543 542**	0.264	**161 543 552**	0.264
25	20	¾	10	470	**161 543 543**	0.376	**161 543 553**	0.376
	25	1	10	793	**161 543 544**	0.561	**161 543 554**	0.561
40	32	1 ¼	10	1290	**161 543 545**	0.950	**161 543 555**	0.950
50	40	1 ½	10	1910	**161 543 546**	1.392	**161 543 556**	1.392
63	50	2	10	3100	**161 543 547**	2.691	**161 543 557**	2.691

D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	79	28	8	112	87	73	36	25	42	45	6	81	40
58	88	32	8	131	108	86	43	25	50	58	6	94	47
68	94	36	8	151	108	99	50	25	50	58	6	107	54
84	113	45	9	181	141	120	60	45	66	75	8	130	65
97	119	51	9	205	141	137	69	45	66	75	8	143	72
124	141	65	9	261	165	179	89	45	78	87	8	185	92

3-Way ball valves electric type 167







3-Way ball valve type 167 PVC-U
Horizontal/L-port 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

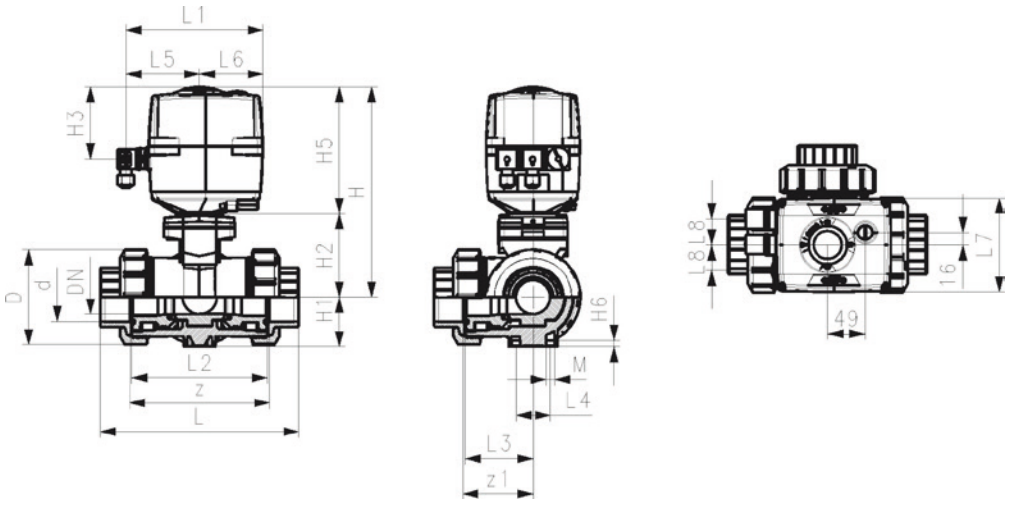
Option:

- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)
20	15	½	10	75	EA25	**199167843_old**	2.122
25	20	¾	10	150	EA25	**199167844_old**	2.128
32	25	1	10	280	EA25	**199167845_old**	2.256
40	32	1 ¼	10	480	EA25	**199167846_old**	2.446
50	40	1 ½	10	620	EA25	**199167847_old**	2.870
63	50	2	10	1230	EA25	**199167848_old**	3.322

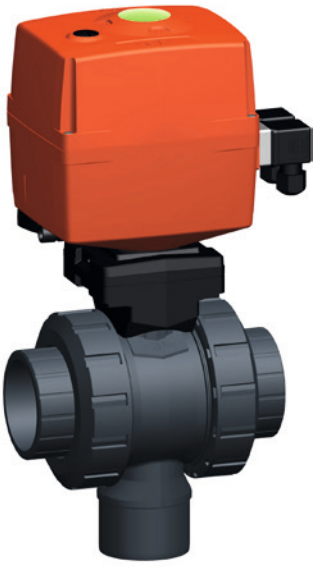
D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)
50	231	28	64	94	167	8	112	180	73	36	25	97	83	122	33
58	240	32	73	94	167	8	131	180	86	43	25	97	83	122	33
68	240	36	73	94	167	8	151	180	99	50	25	97	83	122	33
84	251	45	84	94	167	9	181	180	120	60	45	97	83	122	33
97	251	51	84	94	167	9	205	180	137	69	45	97	83	122	33
124	273	65	106	94	167	9	261	180	179	89	45	97	83	122	33

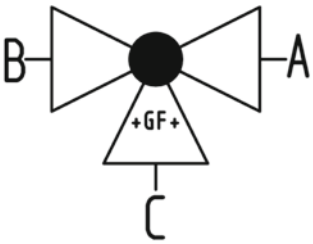
M	z (mm)	z1 (mm)
6	81	40
6	94	47
6	107	54
8	130	65
8	143	72
8	185	92

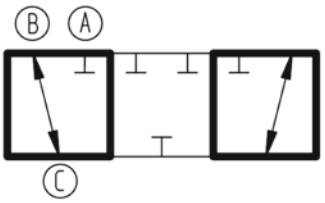


+GF+

3-Way ball valves electric type 170







3-Way ball valve type 543 PRO PVC-U
Vertical/L-port 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

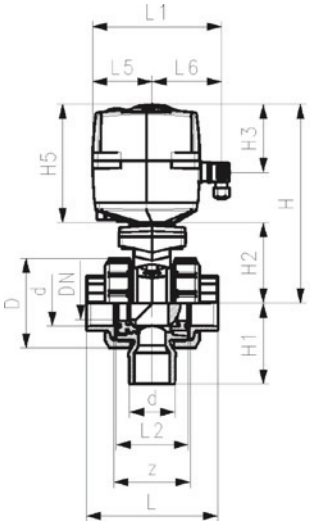
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

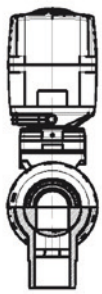
Option:

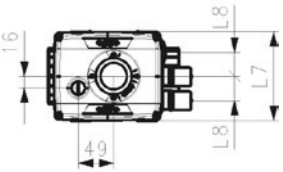
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

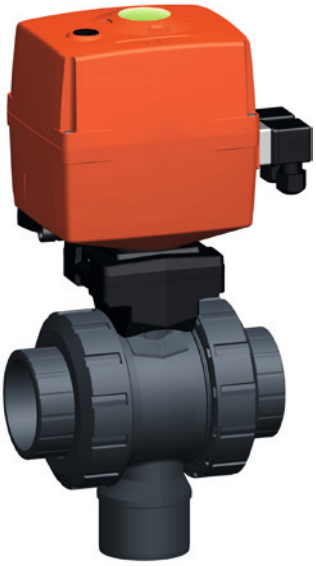
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	77	EA25	**199 170 333**	2.043	**199 170 343**	2.001
25	20	¾	10	146	EA25	**199 170 334**	2.150	**199 170 344**	2.004
32	25	1	10	260	EA25	**199 170 335**	2.267	**199 170 345**	2.090
40	32	1 ¼	10	437	EA25	**199 170 336**	2.554	**199 170 346**	2.179
50	40	1 ½	10	667	EA25	**199 170 337**	2.818	**199 170 347**	2.407
63	50	2	10	1293	EA25	**199 170 338**	3.595	**199 170 348**	2.609

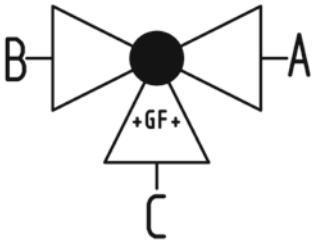
D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
50	231	62	64	94	167	95	180	56	97	83	122	33	64
58	240	72	73	94	167	111	180	66	97	83	122	33	74
68	240	77	73	94	167	123	180	71	97	83	122	33	79
84	251	87	84	94	167	146	180	85	97	83	122	33	95
97	251	97	84	94	167	157	180	89	97	83	122	33	95
124	273	112	106	94	167	183	180	101	97	83	122	33	107

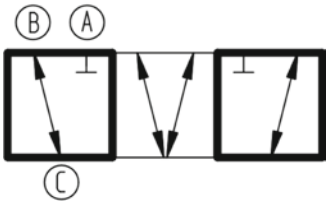












3-Way ball valve type 543 PRO PVC-U
Vertical diverter ball 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

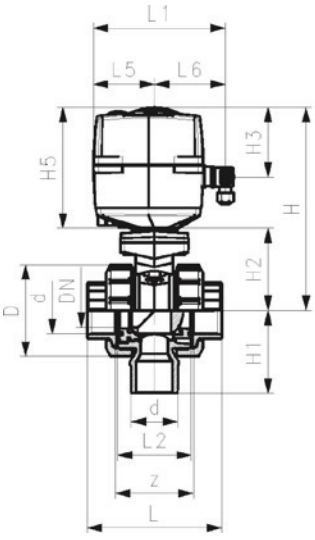
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

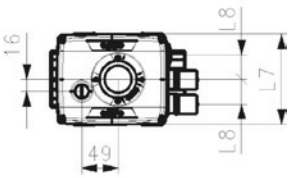
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	77	EA25	**199 170 373**	3.595	**199 170 383**	3.550
25	20	¾	10	146	EA25	**199 170 374**	2.042	**199 170 384**	2.042
32	25	1	10	260	EA25	**199 170 375**	2.148	**199 170 385**	2.148
40	32	1 ¼	10	437	EA25	**199 170 376**	2.260	**199 170 386**	2.260
50	40	1 ½	10	667	EA25	**199 170 377**	2.543	**199 170 387**	2.543
63	50	2	10	1293	EA25	**199 170 378**	2.797	**199 170 388**	2.797

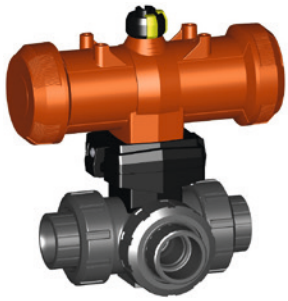
D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
50	231	62	64	94	167	95	180	56	97	83	122	33	64
58	240	72	73	94	167	111	180	66	97	83	122	33	74
68	240	77	73	94	167	123	180	71	97	83	122	33	79
84	251	87	84	94	167	146	180	85	97	83	122	33	95
97	251	97	84	94	167	157	180	89	97	83	122	33	95
124	273	112	106	94	167	183	180	101	97	83	122	33	107

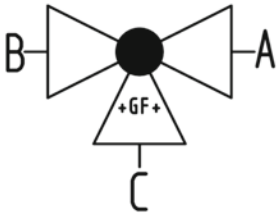


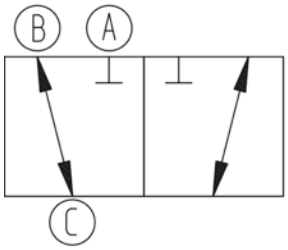




3-Way ball valves pneumatic







3-Way ball valve type 285 PVC-U
Horizontal/L-port
Without manual override
With solvent cement sockets BS

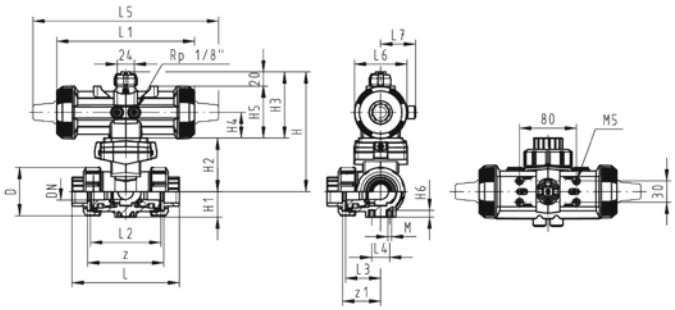
Model:

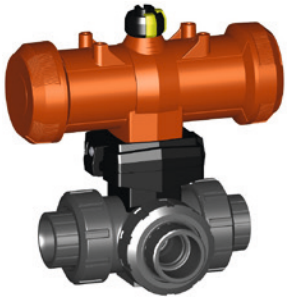
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

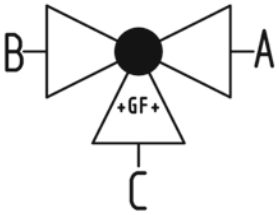
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	**199 285 742**	1.115	**199 285 752**	1.115
20	15	½	10	75	**199 285 743**	1.121	**199 285 753**	1.121
25	20	¾	10	150	**199 285 744**	1.249	**199 285 754**	1.249
32	25	1	10	280	**199 285 745**	1.439	**199 285 755**	1.439
40	32	1 ¼	10	480	**199 285 746**	2.539	**199 285 756**	2.539
50	40	1 ½	10	620	**199 285 747**	2.970	**199 285 757**	2.991
63	50	2	10	1230	**199 285 748**	4.352	**199 285 758**	4.352

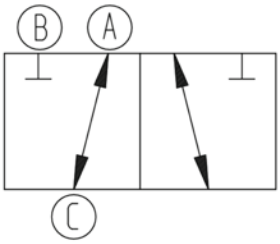
D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
50	159	28	62	97	40	77	8	109	194	73	36	25	261	76	48
50	159	28	62	97	40	77	8	112	194	73	36	25	261	76	48
58	168	32	71	97	40	77	8	131	194	86	43	25	261	76	48
68	168	36	71	97	40	77	8	151	194	99	50	25	261	76	48
84	203	45	84	119	51	99	9	181	224	120	60	45	305	95	59
97	203	51	84	119	51	99	9	205	224	137	69	45	305	95	59
124	225	65	106	119	51	99	9	261	224	179	89	45	305	95	59

M	z (mm)	z1 (mm)
6	77	38
6	77	38
6	90	45
6	103	52
8	124	62
8	145	73
8	189	94









3-Way ball valve type 285 PVC-U
Horizontal/L-port
DA (Double acting)
Without manual override
With solvent cement sockets BS

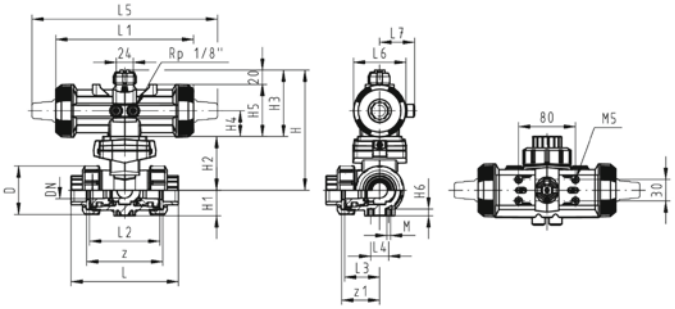
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

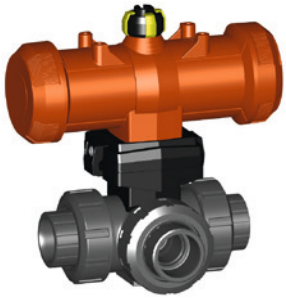
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	50	**199 285 762**	0.925	**199 285 772**	0.925
20	15	½	10	75	**199 285 763**	0.931	**199 285 773**	0.931
25	20	¾	10	150	**199 285 764**	1.059	**199 285 774**	1.059
32	25	1	10	280	**199 285 765**	1.249	**199 285 775**	1.249
40	32	1 ¼	10	480	**199 285 766**	2.115	**199 285 776**	2.115
50	40	1 ½	10	620	**199 285 767**	2.567	**199 285 777**	2.567
63	50	2	10	1230	**199 285 768**	3.928	**199 285 778**	3.928

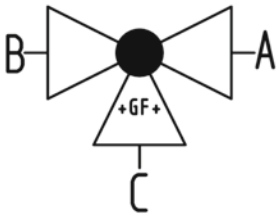
D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
50	159	28	62	97	40	77	8	109	194	73	36	25	261	76	48
50	159	28	62	97	40	77	8	112	194	73	36	25	261	76	48
58	168	32	71	97	40	77	8	131	194	86	43	25	261	76	48
68	168	36	71	97	40	77	8	151	194	99	50	25	261	76	48
84	203	45	84	119	51	99	9	181	224	120	60	45	305	95	59
97	203	51	84	119	51	99	9	205	224	137	69	45	305	95	59
124	225	65	106	119	51	99	9	261	224	179	89	45	305	95	59

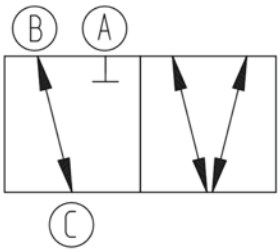
M	z (mm)	z1 (mm)
6	77	38
6	77	38
6	90	45
6	103	52
8	124	62
8	145	73
8	189	94



+GF+







3-Way ball valve type 285 PVC-U
Horizontal/T-port
Without manual override
With solvent cement sockets BS

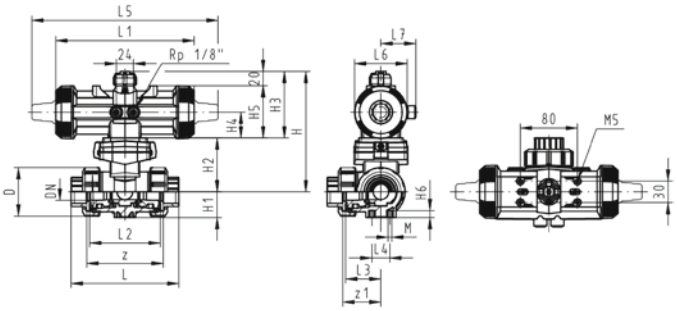
Model:

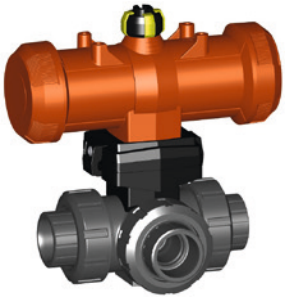
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

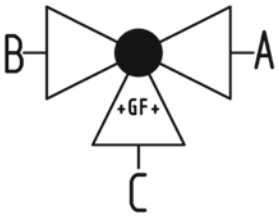
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	**199 285 702**	1.114	**199 285 712**	1.114
20	15	½	10	200	**199 285 703**	1.120	**199 285 713**	1.120
25	20	¾	10	470	**199 285 704**	1.247	**199 285 714**	1.247
32	25	1	10	793	**199 285 705**	1.432	**199 285 715**	1.432
40	32	1 ¼	10	1290	**199 285 706**	2.528	**199 285 716**	2.528
50	40	1 ½	10	1910	**199 285 707**	2.970	**199 285 717**	2.970
63	50	2	10	3100	**199 285 708**	4.307	**199 285 718**	4.307

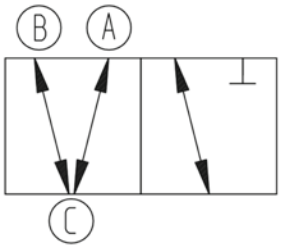
D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
50	159	28	62	97	40	77	8	109	194	73	36	25	261	76	48
50	159	28	62	97	40	77	8	112	194	73	36	25	261	76	48
58	168	32	71	97	40	77	8	131	194	86	43	25	261	76	48
68	168	36	71	97	40	77	8	151	194	99	50	25	261	76	48
84	203	45	84	119	51	99	9	181	224	120	60	45	305	95	59
97	203	51	84	119	51	99	9	205	224	137	69	45	305	95	59
124	225	65	106	119	51	99	9	261	224	179	89	45	305	95	59

M	z (mm)	z1 (mm)
6	77	38
6	77	38
6	90	45
6	103	52
8	124	62
8	145	73
8	189	94









3-Way ball valve type 285 PVC-U
Horizontal/T-port
DA (Double acting)
Without manual override
With solvent cement sockets BS

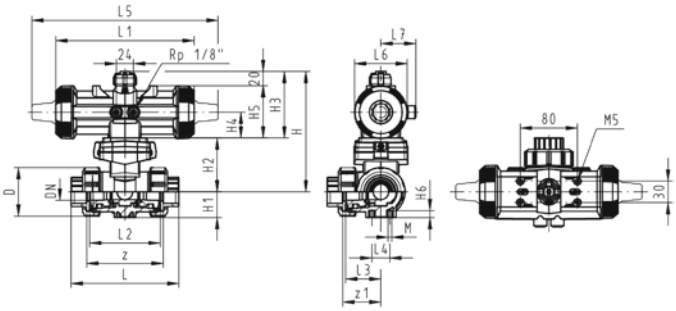
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

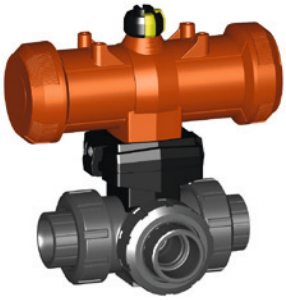
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	10	140	**199 285 722**	0.924	**199 285 732**	0.924
20	15	½	10	200	**199 285 723**	0.930	**199 285 733**	0.930
25	20	¾	10	470	**199 285 724**	1.057	**199 285 734**	1.057
32	25	1	10	793	**199 285 725**	1.242	**199 285 735**	1.242
40	32	1 ¼	10	1290	**199 285 726**	2.104	**199 285 736**	2.104
50	40	1 ½	10	1910	**199 285 727**	2.546	**199 285 737**	2.546
63	50	2	10	3100	**199 285 728**	3.883	**199 285 738**	3.883

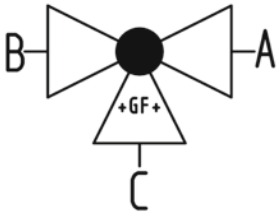
D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
50	159	28	62	97	40	77	8	109	194	73	36	25	261	76	48
50	159	28	62	97	40	77	8	112	194	73	36	25	261	76	48
58	168	32	71	97	40	77	8	131	194	86	43	25	261	76	48
68	168	36	71	97	40	77	8	151	194	99	50	25	261	76	48
84	203	45	84	119	51	99	9	181	224	120	60	45	305	95	59
97	203	51	84	119	51	99	9	205	224	137	69	45	305	95	59
124	225	65	106	119	51	99	9	261	224	179	89	45	305	95	59

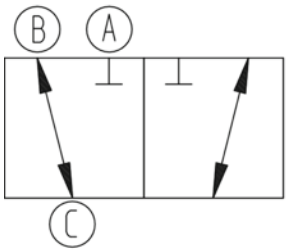
M	z (mm)	z1 (mm)
6	77	38
6	77	38
6	90	45
6	103	52
8	124	62
8	145	73
8	189	94



+GF+







3-Way ball valve type 285 PVC-U
Horizontal/L-port
Without manual override
With solvent cement sockets JIS

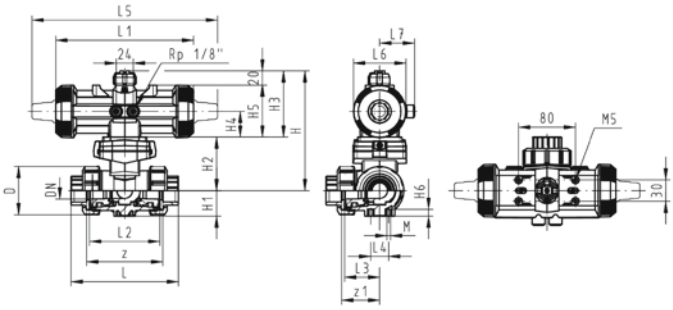
Model:

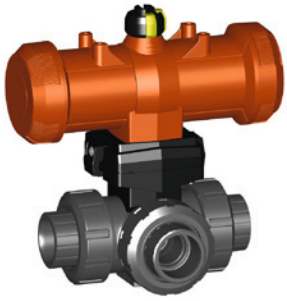
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

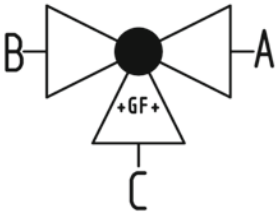
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	75	**199 285 863**	1.121	**199 285 873**	1.121
25	20	¾	10	150	**199 285 864**	1.249	**199 285 874**	1.249
32	25	1	10	280	**199 285 865**	1.439	**199 285 875**	1.439
40	32	1 ¼	10	480	**199 285 866**	2.539	**199 285 876**	2.539
50	40	1 ½	10	620	**199 285 867**	2.991	**199 285 877**	2.991
63	50	2	10	1230	**199 285 868**	4.352	**199 285 878**	4.352

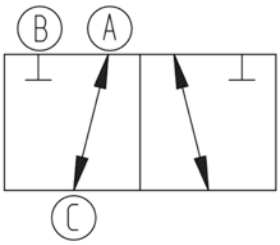
D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
50	159	28	62	97	40	77	8	112	194	73	36	25	261	76	48
58	168	32	71	97	40	77	8	131	194	86	43	25	261	76	48
68	168	36	71	97	40	77	8	151	194	99	50	25	261	76	48
84	203	45	84	119	51	99	9	181	224	120	60	45	305	95	59
97	203	51	84	119	51	99	9	205	224	137	69	45	305	95	59
124	225	65	106	119	51	99	9	261	224	179	89	45	305	95	59

M	z (mm)	z1 (mm)
6	81	40
6	94	47
6	107	54
8	130	65
8	143	72
8	185	92









3-Way ball valve type 285 PVC-U
Horizontal/L-port DA (Double acting)
Without manual override
With solvent cement sockets JIS

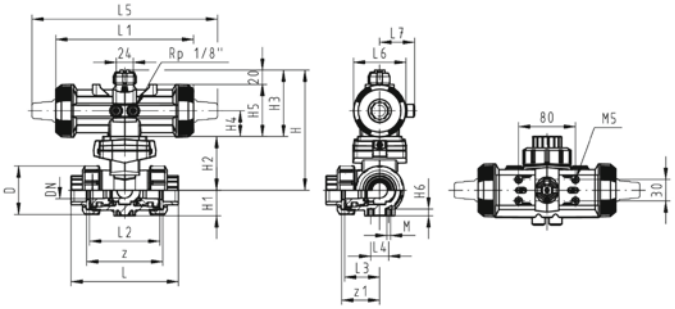
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts

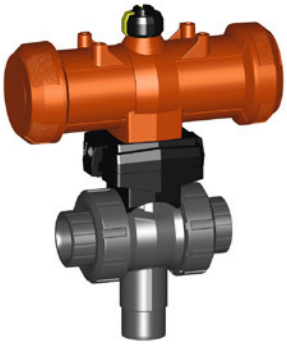
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	75	**199 285 643**	0.877	**199 285 653**	0.931
25	20	¾	10	150	**199 285 644**	1.059	**199 285 654**	1.059
32	25	1	10	280	**199 285 645**	1.249	**199 285 655**	1.249
40	32	1 ¼	10	480	**199 285 646**	2.115	**199 285 656**	2.115
50	40	1 ½	10	620	**199 285 647**	2.567	**199 285 657**	2.567
63	50	2	10	1230	**199 285 648**	3.928	**199 285 658**	3.928

D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
50	159	28	62	97	40	77	8	112	194	73	36	25	261	76	48
58	168	32	71	97	40	77	8	131	194	86	43	25	261	76	48
68	168	36	71	97	40	77	8	151	194	99	50	25	261	76	48
84	203	45	84	119	51	99	9	181	224	120	60	45	305	95	59
97	203	51	84	119	51	99	9	205	224	137	69	45	305	95	59
124	225	65	106	119	51	99	9	261	224	179	89	45	305	95	59

M	z (mm)	z1 (mm)
6	81	40
6	94	47
6	107	54
8	130	65
8	143	72
8	185	92



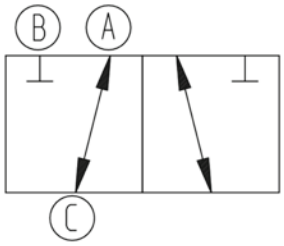
+GF+



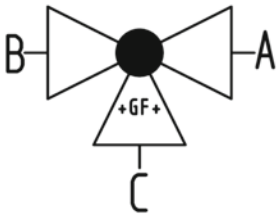
3-Way ball valve type 288 PVC-U
Vertical diverter ball
Without manual override
With solvent cement sockets JIS

Model:

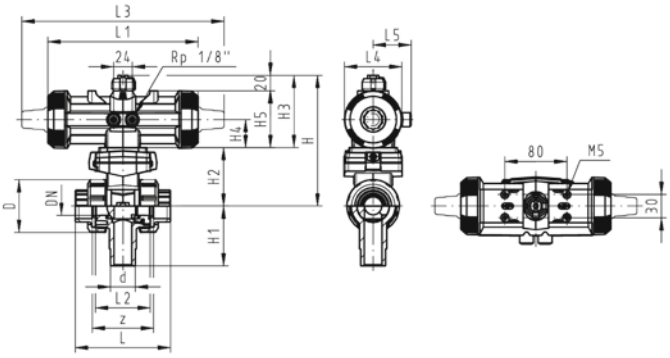
- Vertical inlet solvent cement spigot metric
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- Easy installation and removal using union on third outlet



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	77	**199 288 123**	1.035	**199 288 133**	1.035
25	20	¾	10	146	**199 288 124**	1.141	**199 288 134**	1.141
32	25	1	10	260	**199 288 125**	1.253	**199 288 135**	1.253
40	32	1 ¼	10	437	**199 288 126**	2.212	**199 288 136**	2.212
50	40	1 ½	10	667	**199 288 127**	2.466	**199 288 137**	2.466
63	50	2	10	1293	**199 288 128**	3.219	**199 288 138**	3.219



D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	z (mm)
50	159	62	62	97	40	77	95	194	56	261	76	48	64
58	168	72	71	97	40	77	111	194	66	261	76	48	74
68	168	77	71	97	40	77	123	194	71	261	76	48	79
84	203	87	84	119	51	99	146	224	85	305	95	59	95
97	203	97	84	119	51	99	157	224	89	305	95	59	95
124	225	112	106	119	51	99	183	224	101	305	95	59	107



Metering ball valves type 523



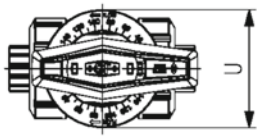
Metering ball valve type 523 Pro PVC-U
With solvent cement sockets Inch BS

Model:

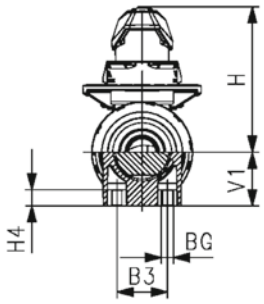
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

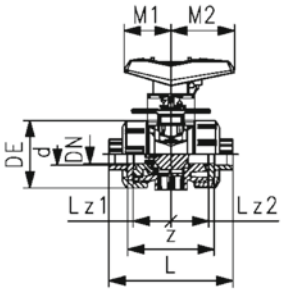
Option:

- Other materials on demand



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	11	**161 523 501**	0.170	**161 523 511**	0.170
20	15	10	20	**161 523 502**	0.170	**161 523 512**	0.170





d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)	z (mm)
16	35	47	28	28	92	27	72	99	50	M6	25	12	59	64
20	35	47	28	28	95	27	72	99	50	M6	25	12	59	64



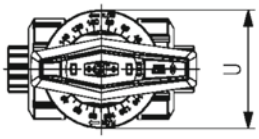
Metering ball valve type 523 Pro PVC-U
With solvent cement sockets JIS

Model:

- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

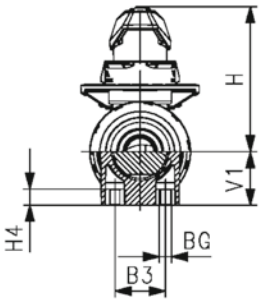
Option:

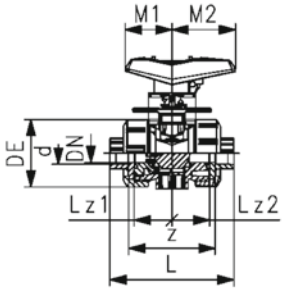
- Other materials on demand



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	EPDM Weight (kg)	FKM Code	FKM Weight (kg)
20	15	10	20	**161 523 562**	0.170	**161 523 572**	0.170

d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)	z (mm)
20	35	47	28	28	95	27	72	99	50	M6	25	12	59	64





Lugstyle butterfly valves type 565



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With hand lever
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

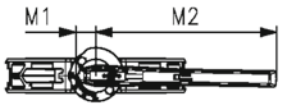
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

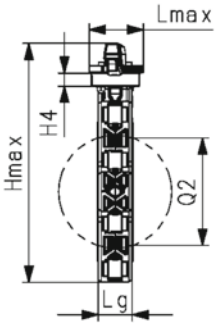
Option:

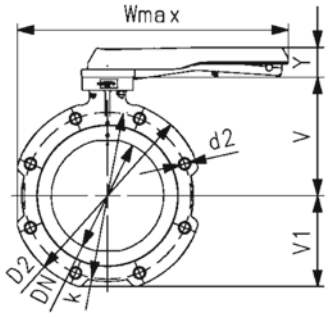
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	**199 576 000**	1.308	**199 576 020**	1.377
75	65	2 ½	16	2530	**199 576 001**	1.542	**199 576 021**	1.644
90	80	3	16	4020	**199 576 002**	1.712	**199 576 022**	1.835
110	100	4	16	5850	**199 576 003**	2.517	**199 576 023**	2.693
140	125	5	16	11900	**199 576 004**	3.086	**199 576 024**	3.346
160	150	6	16	18050	**199 576 005**	4.029	**199 576 025**	4.347
225	200	8	10	43667	**199 576 006**	5.276	**199 576 026**	5.732

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	256.4	96	274.5	133.3	70.1	53	43	28.3	120.7	UNC 5/8	155	23
75	65	273.7	96	285.0	139.9	80.8	53	46	43.8	139.7	UNC 5/8	175	23
90	80	289.9	96	294.5	145.6	91.3	53	46	63.5	152.4	UNC 5/8	190	23
110	100	325.6	96	360.0	166.4	106.2	53	52	83.7	190.5	UNC 5/8	221	23
140	125	353.3	96	374.0	180.0	120.3	53	56	110.4	215.9	UNC 3/4	250	23
160	150	374.4	96	454.5	189.0	132.4	53	56	137.3	241.3	UNC 3/4	277	23
225	200	422.8	96	482.5	209.5	160.3	53	60	191.1	298.5	UNC 3/4	337	23

d (mm)	DN (mm)	M1 (mm)	M2 (mm)
63	50	35.5	204.5
75	65	35.5	204.5
90	80	35.5	204.5
110	100	35.5	204.5
140	125	35.5	204.5
160	150	35.5	319.5
225	200	35.5	319.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
Reduction gear with hand wheel
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

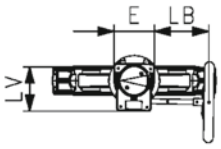
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

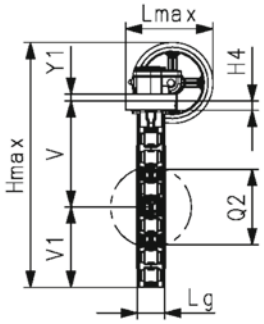
Option:

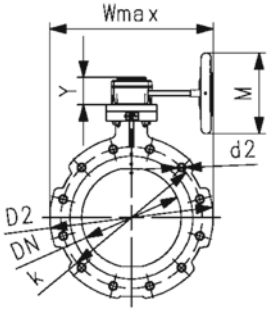
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	**199 576 200**	3.009	**199 576 220**	3.078
75	65	2 ½	16	2530	**199 576 201**	3.243	**199 576 221**	3.345
90	80	3	16	4020	**199 576 202**	3.413	**199 576 222**	3.536
110	100	4	16	5850	**199 576 203**	4.152	**199 576 223**	4.328
140	125	5	16	11900	**199 576 204**	4.721	**199 576 224**	4.981
160	150	6	16	18050	**199 576 205**	5.493	**199 576 225**	5.811
225	200	8	10	43667	**199 576 206**	6.740	**199 576 226**	7.196
280	250	10	10	62333	**199 576 207**	12.739	**199 576 227**	13.419
315	300	12	6	94500	**199 576 208**	16.516	**199 576 228**	17.646

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	344.6	190.75	251.0	133.3	70.1	61.2	43	28.3	120.7	UNC 5/8	155	23
75	65	361.9	190.75	261.5	139.9	80.8	61.2	46	43.8	139.7	UNC 5/8	175	23
90	80	378.1	190.75	271.0	145.6	91.3	61.2	46	63.5	152.4	UNC 5/8	190	23
110	100	413.8	190.75	286.5	166.4	106.2	61.2	52	83.7	190.5	UNC 5/8	221	23
140	125	441.5	190.75	300.5	180.0	120.3	61.2	56	110.4	215.9	UNC 3/4	250	23
160	150	462.6	190.75	312.5	189.0	132.4	61.2	56	137.3	241.3	UNC 3/4	277	23
225	200	511.0	190.75	319.0	209.5	160.3	61.2	60	191.1	298.5	UNC 3/4	337	23
280	250	647.0	207.40	403.0	262.5	199.1	68.4	68	238.9	362.0	UNC 7/8	403	23
315	300	705.2	207.40	482.0	284.3	235.5	68.4	78	285.5	431.8	UNC 7/8	479	23

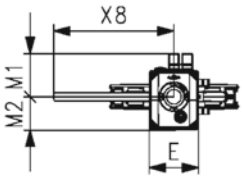
d (mm)	DN (mm)	E (mm)	Y1 (mm)	M (mm)	LV (mm)	LB (mm)
63	50	80		160	112.3	129.5
75	65	80		160	112.3	129.5
90	80	80		160	112.3	129.5
110	100	80		160	112.3	129.5
140	125	80		160	112.3	129.5
160	150	80		160	112.3	129.5
225	200	80		160	112.3	129.5
280	250	100	17	200	130.0	134.0
315	300	100	17	200	130.0	134.0



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With electric actuator 230V with addtional manual override
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

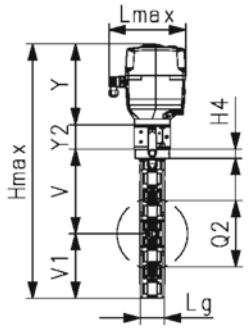


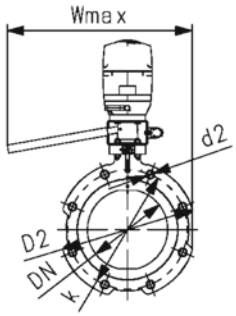
Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com





d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	EA120	**199 576 340**	5.500	**199 576 360**	5.600
75	65	2 ½	16	2530	EA120	**199 576 341**	5.800	**199 576 361**	5.900
90	80	3	16	4020	EA120	**199 576 342**	5.900	**199 576 362**	6.000
110	100	4	16	5850	EA120	**199 576 343**	6.600	**199 576 363**	6.800
140	125	5	16	11900	EA120	**199 576 344**	7.100	**199 576 364**	7.400
160	150	6	16	18050	EA250	**199 576 345**	9.700	**199 576 365**	10.000
225	200	8	10	43667	EA250	**199 576 346**	11.000	**199 576 366**	11.500

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	429.6	190	385.0	133.3	70.1	189.3	43	28.3	120.7	UNC 5/8	155	23
75	65	470.0	190	385.0	139.9	80.8	189.3	46	43.8	139.7	UNC 5/8	175	23
90	80	486.2	190	387.5	145.6	91.3	189.3	46	63.5	152.4	UNC 5/8	190	23
110	100	521.9	190	403.0	166.4	106.2	189.3	52	83.7	190.5	UNC 5/8	221	23
140	125	549.6	190	417.0	180.0	120.3	189.3	56	110.4	215.9	UNC 3/4	250	23
160	150	580.7	190	429.0	189.0	132.4	199.3	56	137.3	241.3	UNC 3/4	277	23
225	200	629.1	190	457.0	209.5	160.3	199.3	60	191.1	298.5	UNC 3/4	337	23

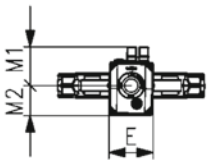
d (mm)	DN (mm)	E (mm)	M1 (mm)	M2 (mm)	X8 (mm)	Y2 (mm)
63	50	122.3	107.3	82.7	297.5	60
75	65	122.3	107.3	82.7	297.5	60
90	80	122.3	107.3	82.7	297.5	60
110	100	122.3	107.3	82.7	297.5	60
140	125	122.3	107.3	82.7	297.5	60
160	150	122.3	107.3	82.7	297.5	60
225	200	122.3	107.3	82.7	297.5	60



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With electric actuator 230V
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

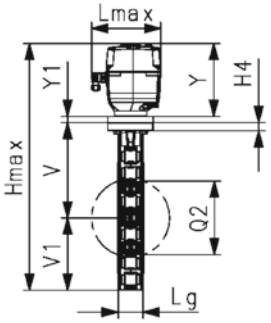


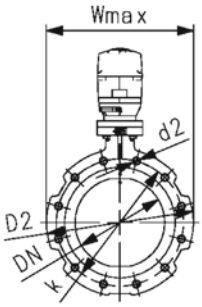
Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com





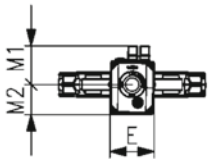
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	EA45	**199 576 300**	3.300	**199 576 320**	3.400
75	65	2 ½	16	2530	EA120	**199 576 301**	4.600	**199 576 321**	4.700
90	80	3	16	4020	EA120	**199 576 302**	4.700	**199 576 322**	4.800
110	100	4	16	5850	EA120	**199 576 303**	5.600	**199 576 323**	5.800
140	125	5	16	11900	EA120	**199 576 304**	6.100	**199 576 324**	6.400
160	150	6	16	18050	EA250	**199 576 305**	8.700	**199 576 325**	9.000
225	200	8	10	43667	EA250	**199 576 306**	10.000	**199 576 326**	10.500
280	250	10	10	62333	EA250	**199 576 307**	14.500	**199 576 327**	15.200
315	300	12	6	94500	EA250	**199 576 308**	18.200	**199 576 328**	19.400

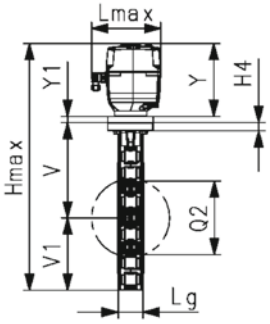
d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	384.6	190	140	133.3	70.1	166.2	43	28.3	120.7	UNC 5/8	155	23
75	65	410.0	190	161	139.9	80.8	189.3	46	43.8	139.7	UNC 5/8	175	23
90	80	426.2	190	180	145.6	91.3	189.3	46	63.5	152.4	UNC 5/8	190	23
110	100	461.9	190	211	166.4	106.2	189.3	52	83.7	190.5	UNC 5/8	221	23
140	125	489.6	190	239	180.0	120.3	189.3	56	110.4	215.9	UNC 3/4	250	23
160	150	520.7	190	263	189.0	132.4	199.3	56	137.3	241.3	UNC 3/4	277	23
225	200	569.1	190	319	209.5	160.3	199.3	60	191.1	298.5	UNC 3/4	337	23
280	250	677.9	190	403	262.5	199.1	199.3	68	238.9	362.0	UNC 7/8	403	23
315	300	736.1	190	482	284.3	235.5	199.3	78	285.5	431.8	UNC 7/8	479	23

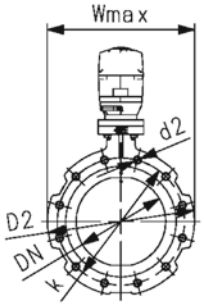
d (mm)	DN (mm)	E (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63	50	122.3	15	107.3	82.7
75	65	122.3		107.3	82.7
90	80	122.3		107.3	82.7
110	100	122.3		107.3	82.7
140	125	122.3		107.3	82.7

table continued on the next page

d (mm)	DN (mm)	E (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
160	150	122.3		107.3	82.7
225	200	122.3		107.3	82.7
280	250	122.3	17	107.3	82.7
315	300	122.3	17	107.3	82.7









Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With electric actuator 24Vwith addtional manual override
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

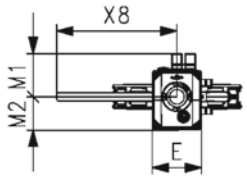
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

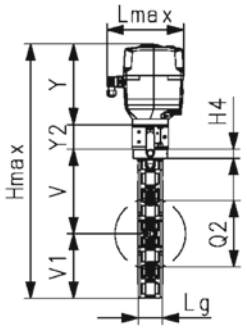
Option:

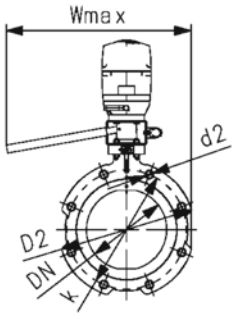
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	EA120	**199 576 440**	5.500	**199 576 460**	5.600
75	65	2 ½	16	2530	EA120	**199 576 441**	5.800	**199 576 461**	5.900
90	80	3	16	4020	EA120	**199 576 442**	5.900	**199 576 462**	6.000
110	100	4	16	5850	EA120	**199 576 443**	6.600	**199 576 463**	6.800
140	125	5	16	11900	EA120	**199 576 444**	7.100	**199 576 464**	7.400
160	150	6	16	18050	EA250	**199 576 445**	9.700	**199 576 465**	10.000
225	200	8	10	43667	EA250	**199 576 446**	11.000	**199 576 466**	11.500

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	429.6	190	385.0	133.3	70.1	189.3	43	28.3	120.7	UNC 5/8	155	23	122.3
75	470.0	190	385.0	139.9	80.8	189.3	46	43.8	139.7	UNC 5/8	175	23	122.3
90	486.2	190	387.5	145.6	91.3	189.3	46	63.5	152.4	UNC 5/8	190	23	122.3
110	521.9	190	403.0	166.4	106.2	189.3	52	83.7	190.5	UNC 5/8	221	23	122.3
140	549.6	190	417.0	180.0	120.3	189.3	56	110.4	215.9	UNC 3/4	250	23	122.3
160	580.7	190	429.0	189.0	132.4	199.3	56	137.3	241.3	UNC 3/4	277	23	122.3
225	629.1	190	457.0	209.5	160.3	199.3	60	191.1	298.5	UNC 3/4	337	23	122.3

d (mm)	X8 (mm)	Y2 (mm)	M1 (mm)	M2 (mm)
63	297.5	60	107.3	82.7
75	297.5	60	107.3	82.7
90	297.5	60	107.3	82.7
110	297.5	60	107.3	82.7
140	297.5	60	107.3	82.7
160	297.5	60	107.3	82.7
225	297.5	60	107.3	82.7



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With electric actuator 24V
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

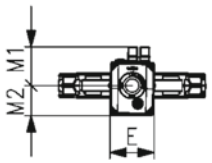
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory

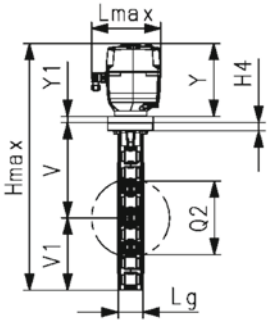
Option:

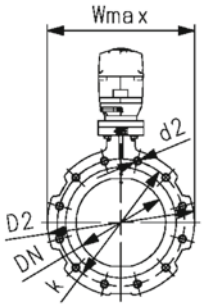
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	EA45	**199 576 400**	3.300	**199 576 420**	3.400
75	65	2 ½	16	2530	EA120	**199 576 401**	4.600	**199 576 421**	4.700
90	80	3	16	4020	EA120	**199 576 402**	4.700	**199 576 422**	4.800
110	100	4	16	5850	EA120	**199 576 403**	5.600	**199 576 423**	5.800
140	125	5	16	11900	EA120	**199 576 404**	6.100	**199 576 424**	6.400
160	150	6	16	18050	EA250	**199 576 405**	8.700	**199 576 425**	9.000
225	200	8	10	43667	EA250	**199 576 406**	10.000	**199 576 426**	10.500
280	250	10	10	62333	EA250	**199 576 407**	14.500	**199 576 427**	15.200
315	300	12	6	94500	EA250	**199 576 408**	18.200	**199 576 428**	19.400

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	384.6	190	140	133.3	70.1	166.2	43	28.3	120.7	UNC 5/8	155	23
75	65	410.0	190	161	139.9	80.8	189.3	46	43.8	139.7	UNC 5/8	175	23
90	80	426.2	190	180	145.6	91.3	189.3	46	63.5	152.4	UNC 5/8	190	23
110	100	461.9	190	211	166.4	106.2	189.3	52	83.7	190.5	UNC 5/8	221	23
140	125	489.6	190	239	180.0	120.3	189.3	56	110.4	215.9	UNC 3/4	250	23
160	150	520.7	190	263	189.0	132.4	199.3	56	137.3	241.3	UNC 3/4	277	23
225	200	569.1	190	319	209.5	160.3	199.3	60	191.1	298.5	UNC 3/4	337	23
280	250	677.9	190	403	262.5	199.1	199.3	68	238.9	362.0	UNC 7/8	403	23
315	300	736.1	190	482	284.3	235.5	199.3	78	285.5	431.8	UNC 7/8	479	23

d (mm)	DN (mm)	E (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63	50	122.3	15	107.3	82.7
75	65	122.3		107.3	82.7
90	80	122.3		107.3	82.7
110	100	122.3		107.3	82.7
140	125	122.3		107.3	82.7
160	150	122.3		107.3	82.7
225	200	122.3		107.3	82.7
280	250	122.3	17	107.3	82.7
315	300	122.3	17	107.3	82.7



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

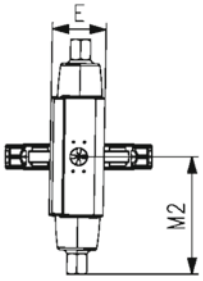
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

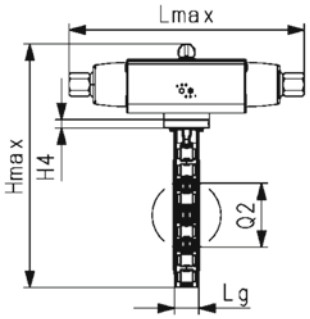
Option:

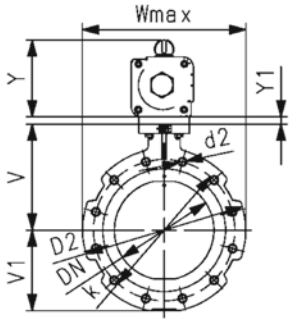
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	PA30	**199 576 500**	3.200	**199 576 520**	3.300
75	65	2 ½	16	2530	PA30	**199 576 501**	3.500	**199 576 521**	3.600
90	80	3	16	4020	PA35	**199 576 502**	4.300	**199 576 522**	4.400
110	100	4	16	5850	PA40	**199 576 503**	5.900	**199 576 523**	6.100
140	125	5	16	11900	PA45	**199 576 504**	7.900	**199 576 524**	8.200
160	150	6	16	18050	PA50	**199 576 505**	10.700	**199 576 525**	11.000
225	200	8	10	43667	PA60	**199 576 506**	16.400	**199 576 526**	16.900
280	250	10	10	62333	PA65	**199 576 507**	25.500	**199 576 527**	26.200
315	300	12	6	94500	PA70	**199 576 508**	32.100	**199 576 528**	33.300

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	316.6	274.4	140	133.3	70.1	98.2	43	28.3	120.7	UNC 5/8	155	23
75	65	333.9	274.4	161	139.9	80.8	98.2	46	43.8	139.7	UNC 5/8	175	23
90	80	363.0	325.2	180	145.6	91.3	111.1	46	63.5	152.4	UNC 5/8	190	23
110	100	287.4	259.6	211	166.4	106.2	114.8	52	83.7	190.5	UNC 5/8	221	23
140	125	449.8	418.0	239	180.0	120.3	149.5	56	110.4	215.9	UNC 3/4	250	23
160	150	474.5	434.0	263	189.0	132.4	153.1	56	137.3	241.3	UNC 3/4	277	23
225	200	546.8	547.3	319	209.5	160.3	177.0	60	191.1	298.5	UNC 3/4	337	23
280	250	668.6	646.0	403	262.5	199.1	190.0	68	238.9	362.0	UNC 7/8	403	23
315	300	746.9	681.0	482	284.3	235.5	210.1	78	285.5	431.8	UNC 7/8	479	23

d (mm)	DN (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	50	70.4	15	137.2
75	65	70.4	15	137.2
90	80	83.3	15	162.6
110	100	87.0		179.8
140	125	107.5		209.0
160	150	111.1		217.0
225	200	135.0		274.0
280	250	148.0	17	323.0
315	300	168.0	17	340.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to open (FO)
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

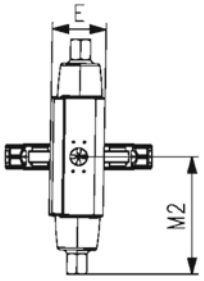
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

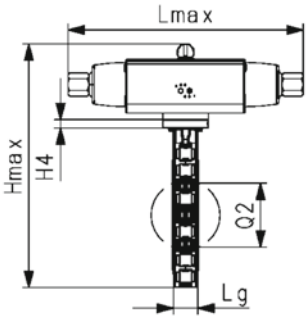
Option:

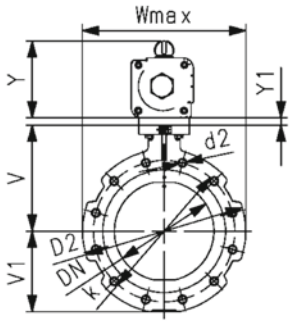
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	PA30	**199 576 540**	3.200	**199 576 560**	3.300
75	65	2 ½	16	2530	PA30	**199 576 541**	3.500	**199 576 561**	3.600
90	80	3	16	4020	PA35	**199 576 542**	4.300	**199 576 562**	4.400
110	100	4	16	5850	PA40	**199 576 543**	5.900	**199 576 563**	6.100
140	125	5	16	11900	PA45	**199 576 544**	7.900	**199 576 564**	8.200
160	150	6	16	18050	PA50	**199 576 545**	10.700	**199 576 565**	11.000
225	200	8	10	43667	PA60	**199 576 546**	14.800	**199 576 566**	15.300
280	250	10	10	62333	PA65	**199 576 547**	28.400	**199 576 567**	29.100
315	300	12	6	94500	PA70	**199 576 548**	32.100	**199 576 568**	33.300

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	316.6	274.4	140	133.3	70.1	27	43	28.3	120.7	UNC 5/8	155	23
75	65	333.9	274.4	161	139.9	80.8	27	46	43.8	139.7	UNC 5/8	175	23
90	80	363.0	325.2	180	145.6	91.3	27	46	63.5	152.4	UNC 5/8	190	23
110	100	387.4	359.6	211	166.4	106.2	16	52	83.7	190.5	UNC 5/8	221	23
140	125	449.8	418.0	239	180.0	120.3	16	56	110.4	215.9	UNC 3/4	250	23
160	150	474.5	434.0	263	189.0	132.4	19	56	137.3	241.3	UNC 3/4	277	23
225	200	546.8	547.3	319	209.5	160.3	19	60	191.1	298.5	UNC 3/4	337	23
280	250	668.6	646.0	403	262.5	199.1	40	68	238.9	362.0	UNC 7/8	403	23
315	300	746.9	681.0	482	284.3	235.5	40	78	285.5	431.8	UNC 7/8	479	23

d (mm)	DN (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	50	11	15	137.2
75	65	11	15	137.2
90	80	11	15	162.6
110	100	14		179.8
140	125	14		209.0
160	150	17		217.0
225	200	17		274.0
280	250	22	17	323.0
315	300	22	17	340.5



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - double acting (DA)
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

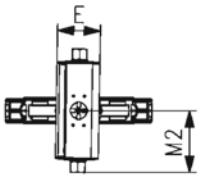
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

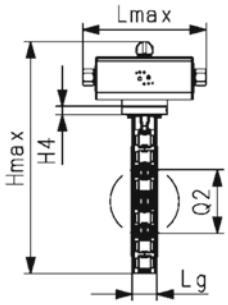
Option:

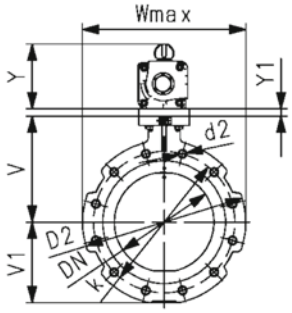
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	PA35	**199 576 600**	2.600	**199 576 620**	2.700
75	65	2 ½	16	2530	PA35	**199 576 601**	2.900	**199 576 621**	3.000
90	80	3	16	4020	PA40	**199 576 602**	3.400	**199 576 622**	3.500
110	100	4	16	5850	PA45	**199 576 603**	4.500	**199 576 623**	4.700
140	125	5	16	11900	PA45	**199 576 604**	5.100	**199 576 624**	5.400
160	150	6	16	18050	PA55	**199 576 605**	7.700	**199 576 625**	8.000
225	200	8	10	43667	PA60	**199 576 606**	10.700	**199 576 626**	11.200
280	250	10	10	62333	PA65	**199 576 607**	16.900	**199 576 627**	17.600
315	300	12	6	94500	PA70	**199 576 608**	22.400	**199 576 628**	23.600

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	310.7	196.2	140	133.3	70.1	27	43	28.3	120.7	UNC 5/8	155	23
75	65	328.0	196.2	161	139.9	80.8	27	46	43.8	139.7	UNC 5/8	175	23
90	80	350.1	205.6	180	145.6	91.3	27	46	63.5	152.4	UNC 5/8	190	23
110	100	383.8	242.0	211	166.4	106.2	16	52	83.7	190.5	UNC 5/8	221	23
140	125	411.5	242.0	239	180.0	120.3	16	56	110.4	215.9	UNC 3/4	250	23
160	150	470.9	290.0	263	189.0	132.4	19	56	137.3	241.3	UNC 3/4	277	23
225	200	523.3	313.9	319	209.5	160.3	19	60	191.1	298.5	UNC 3/4	337	23
280	250	638.6	339.6	403	262.5	199.1	40	68	238.9	362.0	UNC 7/8	403	23
315	300	713.8	382.5	482	284.3	235.5	40	78	285.5	431.8	UNC 7/8	479	23

d (mm)	DN (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	50	11	15	98.1
75	65	11	15	98.1
90	80	11	15	102.8
110	100	14		121.0
140	125	14		121.0
160	150	17		145.0
225	200	17		157.0
280	250	22	17	169.8
315	300	22	17	191.5



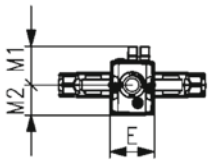
Lug-style end installation butterfly valve type 565L PVDF/PA-GF
Electric, dEA, 100-230V
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Connectivity via NFC and Wi-Fi Direct ensuring control, identification and visibility without opening the case
- Most relevant asset data visualized in the app
- Connection and control via app possible
- LED stripe for visual open/close 360° feedback
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

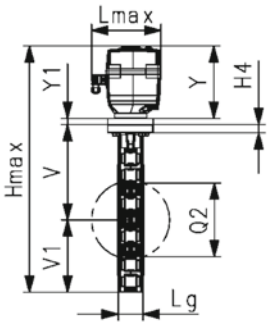
Option:

- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

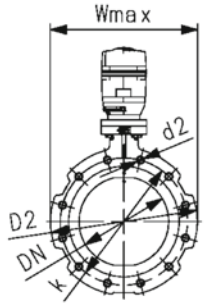


Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	dEA45	**199 576 700**	4.300	**199 576 709**	4.400
75	65	2 ½	16	2530	dEA120	**199 576 701**	4.600	**199 576 710**	4.700
90	80	3	16	4020	dEA120	**199 576 702**	4.700	**199 576 711**	4.800
110	100	4	16	5850	dEA120	**199 576 703**	5.600	**199 576 712**	5.800
140	125	5	16	11900	dEA120	**199 576 704**	6.100	**199 576 713**	6.400
160	150	6	16	118050	dEA250	**199 576 705**	8.700	**199 576 714**	9.000
225	200	8	10	43667	dEA250	**199 576 706**	10.000	**199 576 715**	10.500
280	250	10	10	62333	dEA250	**199 576 707**	14.500	**199 576 716**	15.200
315	300	12	6	94500	dEA250	**199 576 708**	18.200	**199 576 717**	19.400



d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	384.6	190	140	133.3	70.1	166.5	43	28.3	120.7	UNC 5/8	155	23
75	65	410.0	190	161	139.9	80.8	189.5	46	43.8	139.7	UNC 5/8	175	23
90	80	426.2	190	180	145.6	91.3	189.5	46	63.5	152.4	UNC 5/8	190	23
110	100	461.9	190	211	166.4	106.2	189.5	52	83.7	190.5	UNC 5/8	221	23
140	125	489.6	190	239	180.0	120.3	189.5	56	110.4	215.9	UNC 3/4	250	23
160	150	520.7	190	263	189.0	132.4	199.5	56	137.3	241.3	UNC 3/4	277	23
225	200	569.1	190	319	209.5	160.3	199.5	60	191.1	298.5	UNC 3/4	337	23
280	250	677.9	190	403	262.5	199.1	199.5	68	238.9	362.0	UNC 7/8	403	23
315	300	736.1	190	482	284.3	235.5	199.5	78	285.5	431.8	UNC 7/8	479	23

d (mm)	DN (mm)	E (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63	50	122.3	15	107.5	83
75	65	122.3		107.5	83
90	80	122.3		107.5	83
110	100	122.3		107.5	83
140	125	122.3		107.5	83
160	150	122.3		107.5	83
225	200	122.3		107.5	83
280	250	122.3	17	107.5	83
315	300	122.3	17	107.5	83



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
Electric, dEA, 24V
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

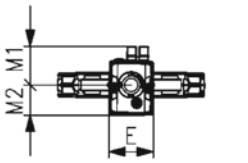
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- 24 AC/DC
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Connectivity via NFC and Wi-Fi Direct ensuring control, identification and visibility without opening the case
- Most relevant asset data visualized in the app
- Connection and control via app possible
- LED stripe for visual open/close 360° feedback
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

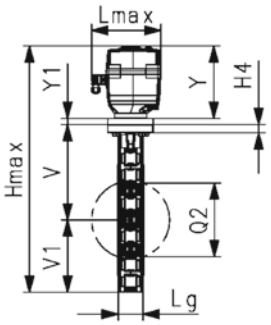
Option:

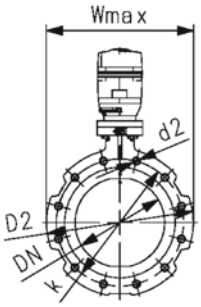
- Individual configuration of the valve possible
- Hand or pneumatic actuators from GF
- Double sensor for electrical position feedback incl. LED feedback
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







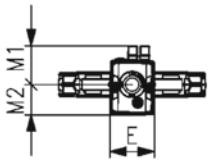
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	dEA45	**199 576 718**	4.300	**199 576 727**	4.400
75	65	2 ½	16	2530	dEA120	**199 576 719**	4.600	**199 576 728**	4.700
90	80	3	16	4020	dEA120	**199 576 720**	4.700	**199 576 729**	4.800
110	100	4	16	5850	dEA120	**199 576 721**	5.600	**199 576 730**	5.800
140	125	5	16	11900	dEA120	**199 576 722**	6.100	**199 576 731**	6.400
160	150	6	16	18050	dEA250	**199 576 723**	8.700	**199 576 732**	9.000
225	200	8	10	43667	dEA250	**199 576 724**	10.000	**199 576 733**	10.500
280	250	10	10	62333	dEA250	**199 576 725**	14.500	**199 576 734**	15.200
315	300	12	6	94500	dEA250	**199 576 726**	18.200	**199 576 735**	19.400

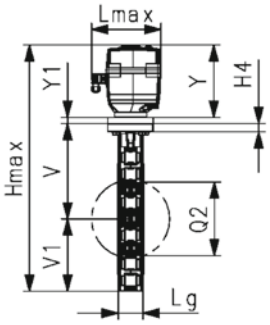
d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	384.6	190	140	133.3	70.1	166.5	43	28.3	120.7	UNC 5/8	155	23
75	65	410.0	190	161	139.9	80.8	189.5	46	43.8	139.7	UNC 5/8	175	23
90	80	426.2	190	180	145.6	91.3	189.5	46	63.5	152.4	UNC 5/8	190	23
110	100	461.9	190	211	166.4	106.2	189.5	52	83.7	190.5	UNC 5/8	221	23
140	125	489.6	190	239	180.0	120.3	189.5	56	110.4	215.9	UNC 3/4	250	23
160	150	520.7	190	263	189.0	132.4	199.5	56	137.3	241.3	UNC 3/4	277	23
225	200	569.1	190	319	209.5	160.3	199.5	60	191.1	298.5	UNC 3/4	337	23
280	250	677.9	190	403	262.5	199.1	199.5	68	238.9	362.0	UNC 7/8	403	23
315	300	736.1	190	482	284.3	235.5	199.5	78	285.5	431.8	UNC 7/8	479	23

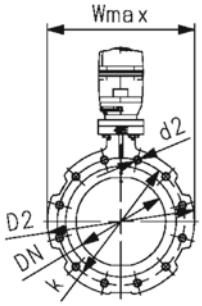
d (mm)	DN (mm)	E (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
63	50	122.3	15	107.5	83
75	65	122.3		107.5	83
90	80	122.3		107.5	83
110	100	122.3		107.5	83
140	125	122.3		107.5	83

table continued on the next page

d (mm)	DN (mm)	E (mm)	Y1 (mm)	M1 (mm)	M2 (mm)
160	150	122.3		107.5	83
225	200	122.3		107.5	83
280	250	122.3	17	107.5	83
315	300	122.3	17	107.5	83









Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to close (FC)
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

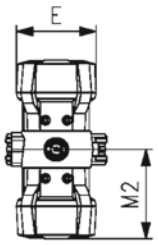
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

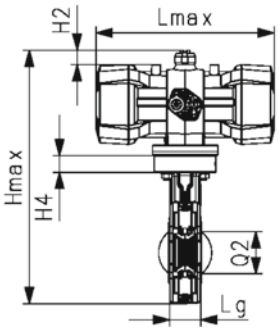
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

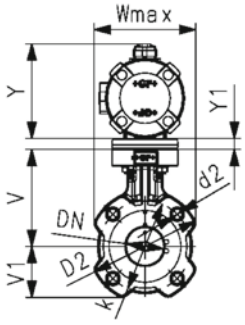
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	PPA40	**199 576 650**	2.922	**199 576 660**	2.922
75	65	2 ½	16	2530	PPA80	**199 576 651**	4.905	**199 576 661**	4.905
90	80	3	16	4020	PPA80	**199 576 652**	5.075	**199 576 662**	5.075



d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)
63	50	398.6	245.5	211	133.3	70.1	111	43	28.3	120.7	UNC 5/8	155	23
75	65	446.3	343.0	239	139.9	80.8	131	46	43.8	139.7	UNC 5/8	175	23
90	80	467.4	343.0	263	145.6	91.3	131	46	63.5	152.4	UNC 5/8	190	23



d (mm)	DN (mm)	E (mm)	Y1 (mm)	M2 (mm)
63	50	119.5	15	122.75
75	65	141.5	15	171.50
90	80	141.5	15	171.50



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - fail safe to open (FO)
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

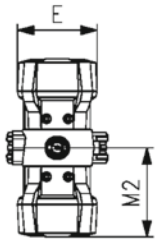
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

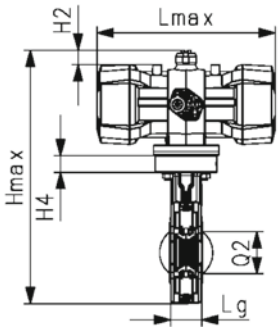
Option:

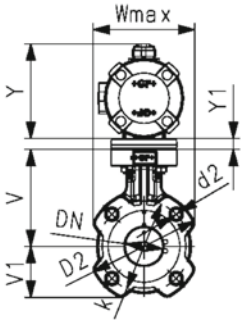
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com







d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	PPA40	**199 576 670**	2.922	**199 576 680**	2.922
75	65	2 ½	16	2530	PPA80	**199 576 671**	4.905	**199 576 681**	4.905
90	80	3	16	4020	PPA80	**199 576 672**	5.075	**199 576 682**	5.075

d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	362.9	245.5	140	133.3	70.1	111	43	28.3	125	M16	155	23	119.5
75	65	418.6	343.0	161	139.9	80.8	131	46	43.8	145	M16	175	23	141.5
90	80	446.3	343.0	180	145.6	91.3	131	46	63.5	160	M16	190	23	141.5

d (mm)	DN (mm)	Y1 (mm)	M2 (mm)
63	50	15	122.75
75	65	15	171.50
90	80	15	171.50



Lug-style end installation butterfly valve type 565L PVDF/PA-GF
With pneumatic actuator - double acting (DA)
Flange standard ANSI / ASTM / ASME
Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems

Model:

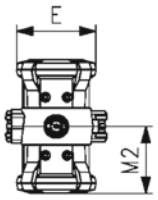
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16
- For easy installation and removal
- Control time 0-90° 1-2s
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 5.6 bar (81.2 psi)
- Full plastic solution (actuator housing made of PP-GF)
- Switching Ring for the double sensor for electrical position feedback is pre-assembled. Double-sensor can be ordered as accessory
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

Option:

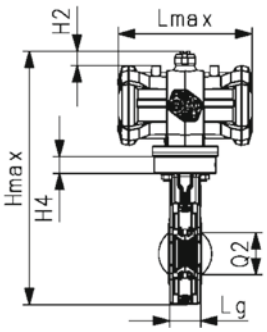
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

Note:

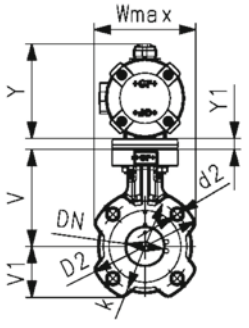
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	50	2	16	1445	PPA40	**199 576 630**	2.396	**199 576 690**	2.396
75	65	2 ½	16	2530	PPA40	**199 576 631**	2.664	**199 576 691**	2.664
90	80	3	16	4020	PPA40	**199 576 632**	2.854	**199 576 692**	2.854



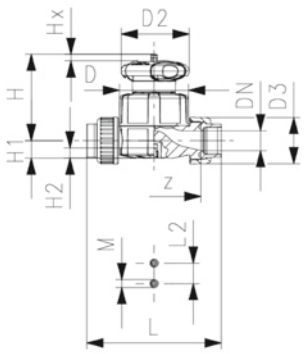
d (mm)	DN (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	V1 (mm)	Y (mm)	Lg (mm)	Q2 (mm)	k (mm)	d2	D2 (mm)	H4 (mm)	E (mm)
63	50	314.4	183.5	140	133.3	70.1	111	43	28.3	125	M16	155	23	119.5
75	65	331.7	183.5	161	139.9	80.8	111	46	43.8	145	M16	175	23	119.5
90	80	347.9	183.5	180	145.6	91.3	111	46	63.5	160	M16	190	23	119.5



d (mm)	DN (mm)	M2 (mm)
63	50	91.75
75	65	91.75
90	80	91.75

Diaphragm valves





Diaphragm valve type 514 PVC-U
With solvent cement sockets BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

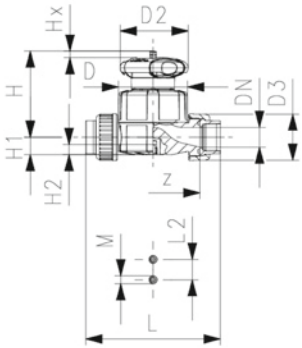
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)
20	15	½	10	125	**161 514 502**	0.396	**161 514 512**	0.296
25	20	¾	10	271	**161 514 503**	0.525	**161 514 513**	0.422
32	25	1	10	481	**161 514 504**	1.159	**161 514 514**	0.671
40	32	1 ¼	10	759	**161 514 505**	1.419	**161 514 515**	0.942
50	40	1 ½	10	1263	**161 514 506**	2.528	**161 514 516**	1.636
63	50	2	10	1728	**161 514 507**	3.409	**161 514 517**	2.514

PTFE/EPDM* Code	Weight (kg)	FKM Code	Weight (kg)
161 514 532	0.295	**161 514 562**	0.396
161 514 533	0.536	**161 514 563**	0.432
161 514 534	1.179	**161 514 564**	0.687
161 514 535	1.439	**161 514 565**	1.419
161 514 536	2.558	**161 514 566**	2.528
161 514 537	2.564	**161 514 567**	3.409

D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
65	65	43	73	14	12	128	25	M6	96	7
80	65	51	81	18	12	152	25	M6	114	10
88	87	58	107	22	12	166	25	M6	122	13
101	87	72	115	26	15	192	45	M8	140	15
117	135	83	148	32	15	222	45	M8	160	19
144	135	100	166	39	15	266	45	M8	190	25





Diaphragm valve type 514 PVC-U
With solvent cement sockets JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

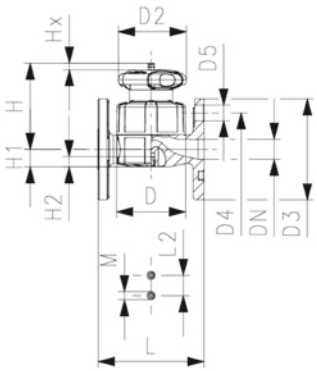
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	**161 514 812**	0.433	**161 514 832**	0.548
25	20	¾	10	271	**161 514 813**	0.421	**161 514 833**	0.538
32	25	1	10	481	**161 514 814**	1.163	**161 514 834**	1.183
40	32	1 ¼	10	759	**161 514 815**	1.437	**161 514 835**	1.457
50	40	1 ½	10	1263	**161 514 816**	1.640	**161 514 836**	2.588
63	50	2	10	1728	**161 514 817**	2.530	**161 514 837**	3.453

D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
80	65	51	81	18	12	152	25	M6	120	10
80	65	51	81	18	12	152	25	M6	114	10
88	87	58	107	22	12	166	25	M6	122	13
101	87	72	115	26	15	192	45	M8	140	15
117	135	83	148	32	15	222	45	M8	160	19
144	135	100	166	39	15	266	45	M8	190	25





Diaphragm valve type 517 PVC-U
With fixed flanges PVC-U JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

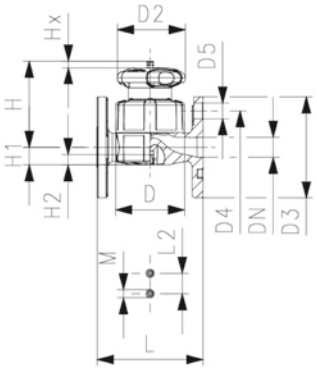
Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

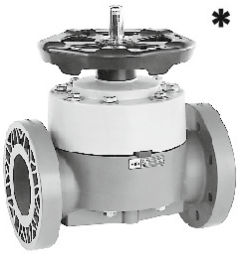
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	**161 517 912**	0.528	**161 517 932**	0.538
25	20	¾	10	271	**161 517 913**	0.626	**161 517 933**	0.637
32	25	1	10	481	**161 517 914**	1.334	**161 517 934**	1.354
40	32	1 ¼	10	759	**161 517 915**	1.745	**161 517 935**	1.765
50	40	1 ½	10	1263	**161 517 916**	2.814	**161 517 936**	2.844
63	50	2	10	1728	**161 517 917**	3.652	**161 517 937**	3.680

table continued on the next page



D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
65	65	95	70	15	73	14	12	110	25	M6	7
80	65	100	75	15	81	18	12	120	25	M6	10
88	87	125	90	19	107	22	12	130	25	M6	13
101	87	135	100	19	115	26	15	180	45	M8	15
117	135	140	105	19	148	32	15	180	45	M8	19
144	135	155	120	19	166	39	15	210	45	M8	25





Diaphragm valve type 317 PVC-U
With flanges PVC-U JIS

Model:

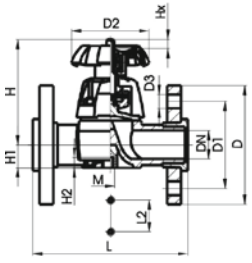
- Flat sealing faces
- Overall length according to EN 558

Option:

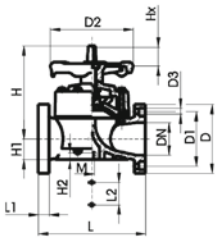
- Handwheel lockable DN15-65 (basic version not lockable)

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	PTFE with EPDM supp. diaphragm Code	Weight (kg)
75	65	2 ½	10	992	**161 317 868**	**161 317 883**	4.300
90	80	3	10	1700	**161 317 824**	**161 317 839**	9.700
110	100	4	6	2700	**161 317 825**	**161 317 840**	11.500
160	150	6	6	6033	**161 317 827**		

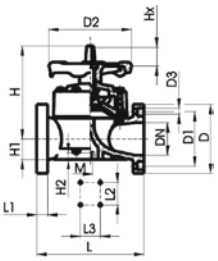
D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
175	140	152	18	201	46	15	250		70		M8	30	4
185	150	270	18	265	57	23	280	35	120		M12	40	8
210	175	270	18	304	69	23	340	35	120		M12	50	8
230	240	400	22	437	108	23	480	26	100	200	M12	70	8



DN 15-65



DN 80-100

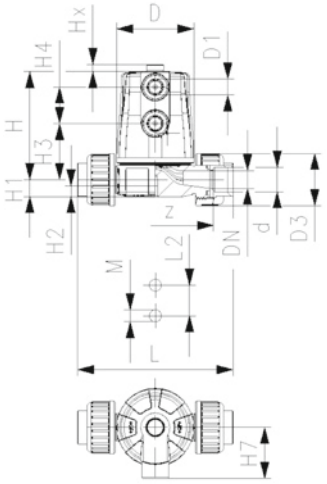


DN 150

Diaphragm valves pneumatic

Diaphragm valves pneumatic type 604 / 605





Diaphragm valve type 604 PVC-U
Unions with solvent cement socket BS

Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	FKM Code	Weight (kg)
20	15	½	6	125	FC	**161 604 512**	**161 604 562**	0.40
20	15	½	6	125	FO	**161 604 514**	**161 604 564**	0.37
20	15	½	6	125	DA	**161 604 515**	**161 604 565**	0.35

PTFE/ EPDM* Code
161 604 532
161 604 534
161 604 535

D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
65	¼	43	89	14	12	46	30	42	131	25	M6	98	6
65	¼	43	89	14	12	46	30	42	131	25	M6	98	6
65	¼	43	89	14	12	46	30	42	131	25	M6	98	6



Diaphragm valve type 604 PVC-U
Unions with solvent cement socket JIS

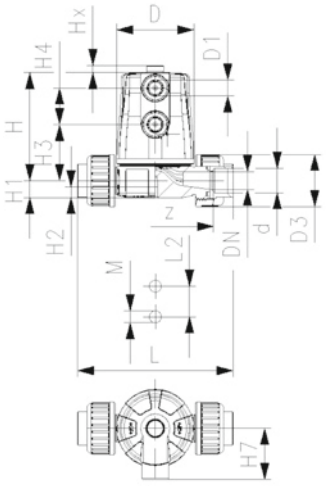
Model:

- Compact full plastic design without screws
- High flow rate
- Actuator housing with thread for easy maintenance
- Quick opening & closing times
- For easy installation and removal
- Market standard installation length

Option:

- Individual configuration of the valve

* O-Ring material: FKM



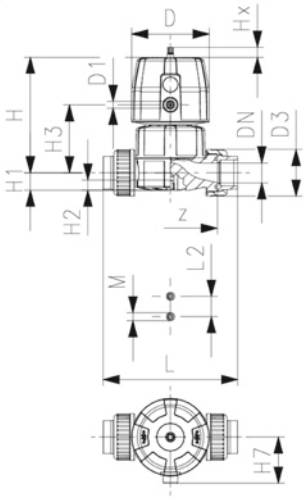
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Actuator	EPDM Code	FKM Code	Weight (kg)
20	15	½	6	125	FC	**161 604 812**	**161 604 862**	0.40
20	15	½	6	125	FO	**161 604 814**	**161 604 864**	0.37
20	15	½	6	125	DA	**161 604 815**	**161 604 865**	0.35

PTFE/EPDM* Code
161 604 832
161 604 834
161 604 835

D (mm)	D1_G (inch)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
65	¼	43	89	14	12	46	30	42	128	25	M6	102	6
65	¼	43	89	14	12	46	30	42	128	25	M6	102	6
65	¼	43	89	14	12	46	30	42	128	25	M6	102	6

DIASTAR Six





Diaphragm valve DIASTAR Six PVC-U
FC (Fail safe to close)
Unions with solvent cement sockets BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

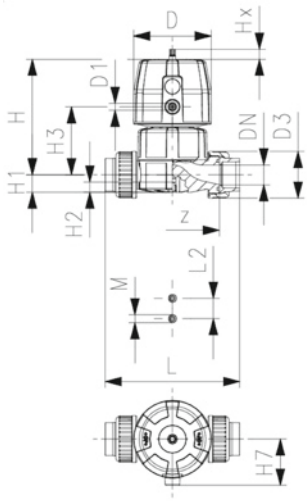
Option:

- Individual configuration of the valve
- PN16 available as a configuration

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	15	½	6	125	**161 614 512**	0.564
25	20	¾	6	271	**161 614 513**	1.044
32	25	1	6	481	**161 614 514**	1.273
40	32	1 ¼	6	759	**161 614 515**	2.058
50	40	1 ½	6	960	**161 614 516**	2.678
63	50	2	6	1181	**161 614 517**	3.786

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
68	⅛	101	14	12	60	43	128	25	M6	96	7
96	⅛	132	18	12	73	57	152	25	M6	114	10
96	⅛	143	22	12	84	57	166	25	M6	122	13
120	⅛	173	26	15	99	69	192	45	M8	140	14
120	⅛	193	32	15	119	69	222	45	M8	160	16
120	⅛	205	39	15	132	69	266	45	M8	190	16





Diaphragm valve DIASTAR Six PVC-U
FC (Fail safe to close)
Unions with solvent cement sockets JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

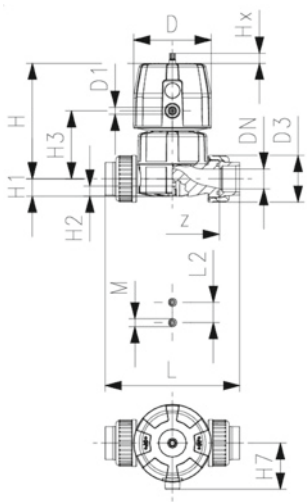
Option:

- Individual configuration of the valve
- PN16 available as a configuration

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
25	20	¾	6	271	**161 614 813**	1.010
32	25	1	6	481	**161 614 814**	1.277
40	32	1 ¼	6	759	**161 614 815**	2.076
50	40	1 ½	6	960	**161 614 816**	2.759
63	50	2	6	1181	**161 614 817**	3.802

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
96	⅛	132	18	12	73	57	152	25	M6	114	10
96	⅛	143	22	12	84	57	166	25	M6	122	13
120	⅛	173	26	15	99	69	192	45	M6	140	14
120	⅛	193	32	15	119	69	222	45	M6	160	16
120	⅛	205	39	15	132	69	266	45	M6	190	16





Diaphragm valve DIASTAR Six PVC-U
FC (Fail safe to close)
Unions with threaded sockets Rc

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- PN16 available as a configuration

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
25	20	Rc	¾	6	271	**161 614 913**	1.048
32	25	Rc	1	6	481	**161 614 914**	1.279
40	32	Rc	1 ¼	6	759	**161 614 915**	2.072
50	40	Rc	1 ½	6	960	**161 614 916**	2.706
63	50	Rc	2	6	1181	**161 614 917**	3.874

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
96	⅛	132	18	12	73	57	152	25	M6	114	10
96	⅛	143	22	12	84	57	166	25	M6	122	13
120	⅛	173	26	15	99	69	192	45	M6	140	14
120	⅛	193	32	15	119	69	222	45	M6	160	16
120	⅛	205	39	15	132	69	266	45	M6	190	16



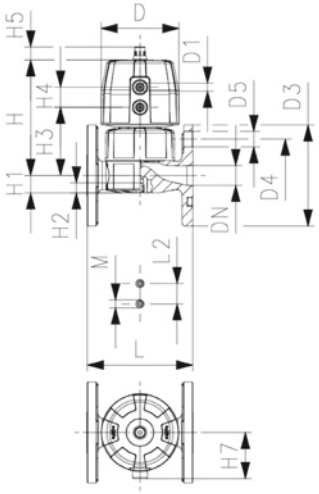
Diaphragm valve DIASTAR Six PVC-U
FC (Fail safe to close)
With fixed flanges PVC-U JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve



Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
¾	20	6	271	**161 617 913**	1.145
1	25	6	481	**161 617 914**	1.448
1 ¼	32	6	759	**161 617 915**	2.384
1 ½	40	6	960	**161 617 916**	2.964
2	50	6	1181	**161 617 917**	4.029

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
¾	96	⅛	100	75	15	132	18	12	73	57	120	25	M6	10
1	96	⅛	125	90	15	143	22	12	84	57	130	25	M6	13
1 ¼	120	⅛	135	100	19	173	26	15	99	69	180	45	M6	14
1 ½	120	⅛	140	105	19	193	32	15	119	69	180	45	M6	16
2	120	⅛	155	120	19	205	39	15	132	69	210	45	M6	16

DIASTAR Ten



Diaphragm valve DIASTAR Ten PVC-U
FC (Fail safe to close)
Unions with solvent cement sockets BS

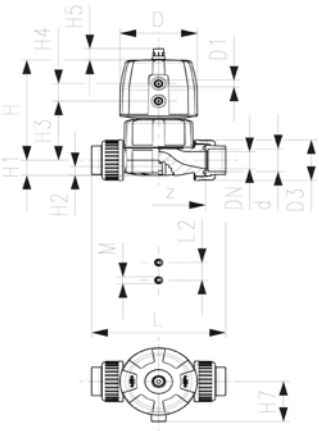
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

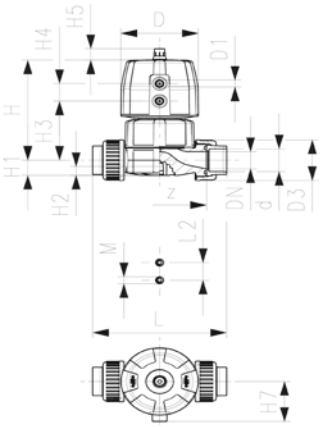
- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 624 512**	0.590	**161 624 532**	0.600
25	20	¾	10	10*	271	**161 624 513**	1.119	**161 624 533**	1.130
32	25	1	10	10*	481	**161 624 514**	1.345	**161 624 534**	1.365
40	32	1 ¼	10	10*	759	**161 624 515**	2.208	**161 624 535**	2.228
50	40	1 ½	10	10*	1263	**161 624 516**	3.816	**161 624 536**	3.987
63	50	2	10	6*	1728	**161 624 517**	4.707	**161 624 537**	4.735

table continued on the next page



D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
68	⅛	101	14	12	60	24	16	43	128	25	M6	96	7
96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
150	¼	214	32	15	119	36	26	88	222	45	M8	160	19
150	¼	226	39	15	132	36	26	88	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
FC (Fail safe to close)
Unions with solvent cement sockets JIS

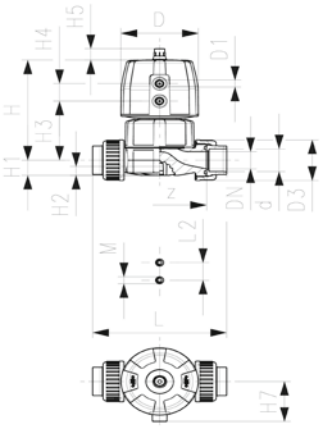
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 624 812**	1.114	**161 624 832**	1.142
25	20	¾	10	10*	271	**161 624 813**	1.108	**161 624 833**	1.114
32	25	1	10	10*	481	**161 624 814**	1.341	**161 624 834**	1.369
40	32	1 ¼	10	10*	759	**161 624 815**	2.226	**161 624 835**	2.246
50	40	1 ½	10	10*	1263	**161 624 816**	3.846	**161 624 836**	3.991
63	50	2	10	6*	1728	**161 624 817**	4.608	**161 624 837**	4.751

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
96	⅛	132	18	12	73	25	16	57	152	25	M6	120	10
96	⅛	132	18	12	73	25	16	57	152	25	M6	144	10
96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
150	¼	214	32	15	119	36	26	88	222	45	M8	160	19
150	¼	226	39	15	132	36	26	88	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
FC (Fail safe to close)
Unions with threaded sockets Rc

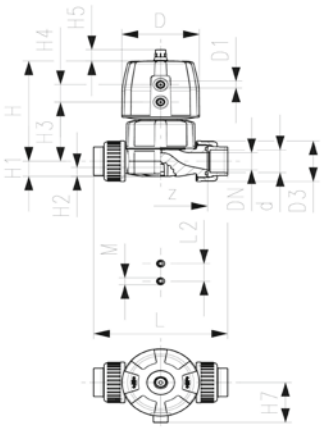
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



Rc (inch)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10/10*	125	**161 624 912**	1.131	**161 624 932**	1.142
¾	20	10/10*	271	**161 624 913**	1.123	**161 624 933**	1.134
1	25	10/10*	481	**161 624 914**	1.351	**161 624 934**	1.371
1 ¼	32	10/10*	759	**161 624 915**	2.222	**161 624 935**	2.242
1 ½	40	10/10*	1263	**161 624 916**	3.844	**161 624 936**	3.874
2	50	10/6*	1728	**161 624 917**	4.795	**161 624 937**	4.823

Rc (inch)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
½	96	⅛	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
1	96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	120	¼	214	32	15	119	36	26	88	222	45	M8	160	19
2	120	¼	226	39	15	132	36	26	88	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
FC (Fail safe to close)
With fixed flanges PVC-U JIS

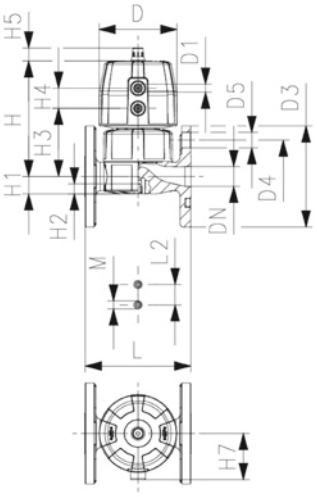
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 627 912**	0.722	**161 627 932**	0.732
25	20	¾	10	10*	271	**161 627 913**	1.220	**161 627 933**	1.231
32	25	1	10	10*	481	**161 627 914**	1.520	**161 627 934**	1.540
40	32	1 ¼	10	10*	759	**161 627 915**	2.534	**161 627 935**	2.554
50	40	1 ½	10	10*	1263	**161 627 916**	4.102	**161 627 936**	4.132
63	50	2	10	6*	1728	**161 627 917**	4.950	**161 627 937**	4.978

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	70	15	101	14	12	60	24	16	43	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅛	125	90	19	143	22	12	84	25	16	57	130	25	M6
120	⅛	135	100	19	173	26	15	99	26	26	69	180	45	M8
150	¼	140	105	19	193	32	15	119	36	26	88	180	45	M8
150	¼	155	120	19	205	39	15	132	36	26	88	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23



Diaphragm valve DIASTAR Ten PVC-U
FO (Fail safe to open)
Unions with solvent cement sockets BS

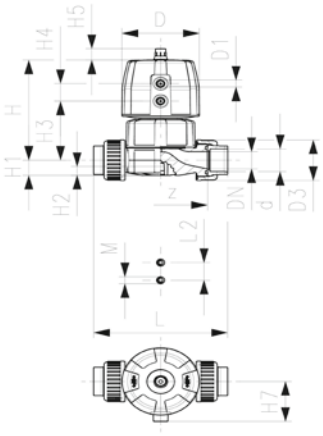
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

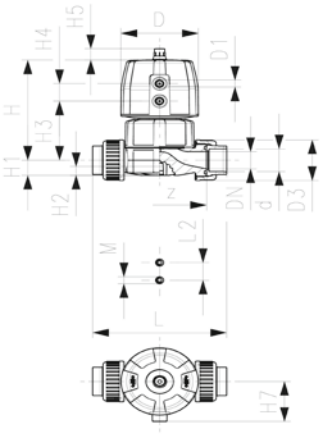
* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 644 512**	0.504	**161 644 532**	0.550
25	20	¾	10	10*	271	**161 644 513**	0.945	**161 644 533**	0.956
32	25	1	10	10*	481	**161 644 514**	1.165	**161 644 534**	1.152
40	32	1 ¼	10	10*	759	**161 644 515**	1.848	**161 644 535**	1.868
50	40	1 ½	10	10*	1263	**161 644 516**	3.726	**161 644 536**	3.756
63	50	2	10	10*	1728	**161 644 517**	4.617	**161 644 537**	4.645

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
68	⅛	101	14	12	60	24	16	43	128	25	M6	96	7
96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
150	¼	214	32	15	119	36	26	88	222	45	M8	160	19
150	¼	226	39	15	132	36	26	88	266	45	M8	190	23





Diaphragm valve DIASTAR Ten PVC-U
FO (Fail safe to open)
Unions with solvent cement sockets JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 644 812**	0.957	**161 644 832**	0.968
25	20	¾	10	10*	271	**161 644 813**	0.947	**161 644 833**	0.958
32	25	1	10	10*	481	**161 644 814**	1.169	**161 644 834**	1.189
40	32	1 ¼	10	10*	759	**161 644 815**	1.866	**161 644 835**	1.886
50	40	1 ½	10	10*	1263	**161 644 816**	3.756	**161 644 836**	3.786
63	50	2	10	10*	1728	**161 644 817**	4.633	**161 644 837**	4.661

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
96	⅛	132	18	12	73	25	16	57	152	25	M6	120	10
96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
150	¼	214	32	15	119	36	26	88	222	45	M8	160	19
150	¼	226	39	15	132	36	26	88	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
FO (Fail safe to open)
Unions with threaded sockets Rc

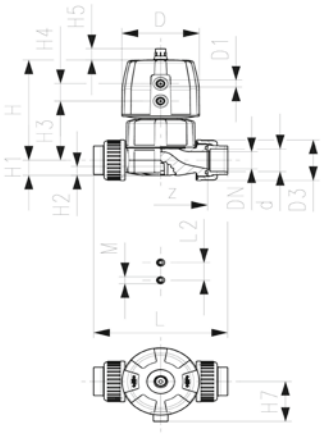
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	15	Rc	½	10	10*	125	**161 644 912**	0.957
25	20	Rc	¾	10	10*	271	**161 644 913**	0.948
32	25	Rc	1	10	10*	481	**161 644 914**	1.171
40	32	Rc	1 ¼	10	10*	759	**161 644 915**	1.862
50	40	Rc	1 ½	10	10*	1263	**161 644 916**	3.754
63	50	Rc	2	6	10*	1728	**161 644 917**	4.705

PTFE/ EPDM* Code	Weight (kg)
161 644 932	0.968
161 644 933	0.960
161 644 934	1.191
161 644 935	1.882
161 644 936	3.784
161 644 937	4.733

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
96	⅛	132	18	12	73	25	16	57	152	25	M6	120	10
96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
150	¼	214	32	15	119	36	26	69	222	45	M8	160	19
150	¼	226	39	15	132	36	26	69	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
FO (Fail safe to open)
With fixed flanges PVC-U JIS

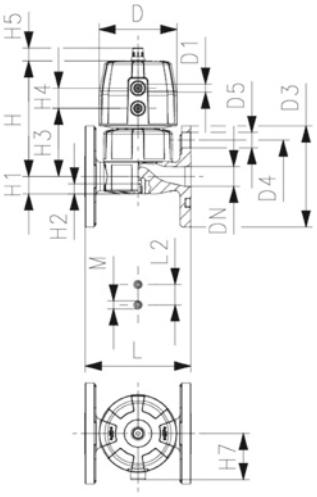
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 647 912**	0.672	**161 647 932**	0.682
25	20	¾	10	10*	271	**161 647 913**	1.046	**161 647 933**	1.057
32	25	1	10	10*	481	**161 647 914**	1.340	**161 647 934**	1.360
40	32	1 ¼	10	10*	759	**161 647 915**	2.174	**161 647 935**	2.194
50	40	1 ½	10	10*	1263	**161 647 916**	4.012	**161 647 936**	4.042
63	50	2	10	10*	1728	**161 647 917**	4.860	**161 647 937**	4.888

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	70	15	101	14	12	60	24	16	43	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅛	125	90	19	143	22	12	84	25	16	57	130	25	M6
120	⅛	135	100	19	173	26	15	99	26	26	69	180	45	M8
150	¼	140	105	19	214	32	15	119	36	26	88	180	45	M8
150	¼	155	120	19	226	39	15	132	36	26	88	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23



Diaphragm valve DIASTAR Ten PVC-U
DA (Double acting)
Unions with solvent cement sockets BS

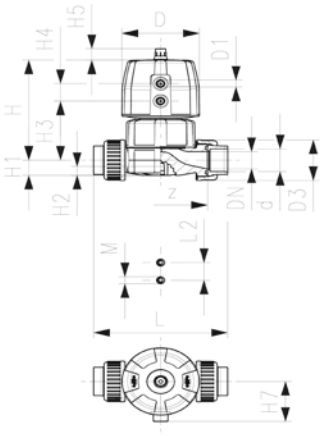
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 654 512**	0.508	**161 654 532**	0.534
25	20	¾	10	10*	271	**161 654 513**	0.909	**161 654 533**	0.920
32	25	1	10	10*	481	**161 654 514**	1.135	**161 654 534**	1.155
40	32	1 ¼	10	10*	759	**161 654 515**	1.788	**161 654 535**	1.808
50	40	1 ½	10	10*	1263	**161 654 516**	2.976	**161 654 536**	3.006
63	50	2	10	10*	1728	**161 654 517**	4.762	**161 654 537**	3.895

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
68	⅛	101	14	12	60	24	16	43	128	25	M6	96	7
96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
150	¼	214	32	15	119	36	26	88	222	45	M8	160	19
150	¼	226	39	15	132	36	26	88	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
DA (Double acting)
Unions with solvent cement sockets JIS

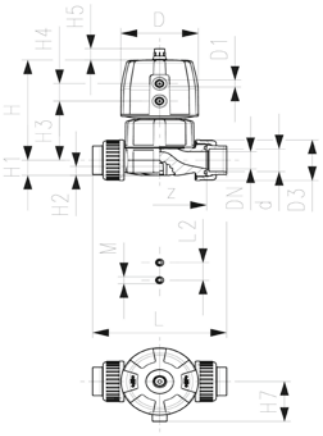
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 654 812**	0.921	**161 654 832**	0.932
25	20	¾	10	10*	271	**161 654 813**	0.911	**161 654 833**	0.922
32	25	1	10	10*	481	**161 654 814**	1.139	**161 654 834**	1.159
40	32	1 ¼	10	10*	759	**161 654 815**	1.806	**161 654 835**	1.826
50	40	1 ½	10	10*	1263	**161 654 816**	3.006	**161 654 836**	3.036
63	50	2	10	10*	1728	**161 654 817**	3.883	**161 654 837**	3.911

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
96	⅛	132	18	12	73	25	16	57	152	25	M6	120	10
96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
150	¼	214	32	15	119	36	26	88	222	45	M8	160	19
150	¼	226	39	15	132	36	26	88	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
DA (Double acting)
Unions with threaded sockets Rc

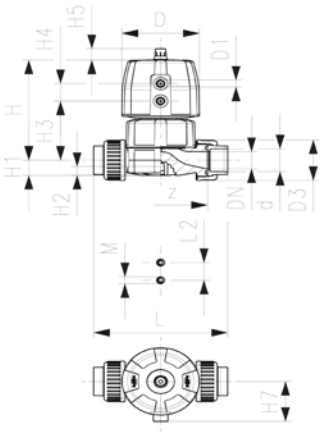
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



Rc (inch)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10/10*	125	**161 654 912**	0.921	**161 654 932**	0.932
¾	20	10/10*	271	**161 654 913**	0.912	**161 654 933**	0.924
1	25	10/10*	481	**161 654 914**	1.141	**161 654 934**	1.161
1 ¼	32	10/10*	759	**161 654 915**	1.802	**161 654 935**	1.822
1 ½	40	10/10*	1263	**161 654 916**	3.004	**161 654 936**	3.034
2	50	10/10*	1728	**161 654 917**	3.955	**161 654 937**	3.983

Rc (inch)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
½	96	⅛	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
1	96	⅛	143	22	12	84	25	16	57	166	25	M6	122	13
1 ¼	120	⅛	173	26	15	99	26	26	69	192	45	M8	140	15
1 ½	150	¼	214	32	15	119	36	26	69	222	45	M8	160	19
2	150	¼	226	39	15	132	36	26	69	266	45	M8	190	23



Diaphragm valve DIASTAR Ten PVC-U
DA (Double acting)
With fixed flanges PVC-U JIS

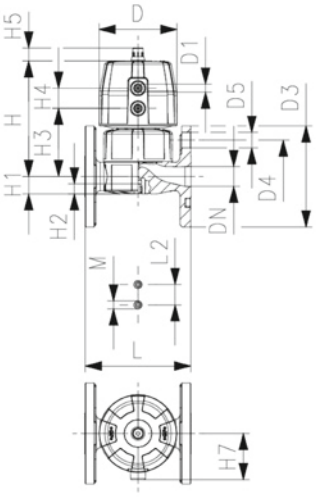
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



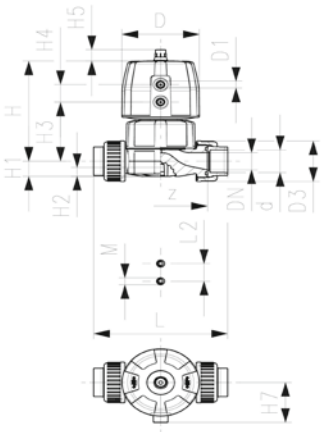
d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 657 912**	0.656	**161 657 932**	0.666
25	20	¾	10	10*	271	**161 657 913**	1.010	**161 657 933**	1.021
32	25	1	10	10*	481	**161 657 914**	1.310	**161 657 934**	1.330
40	32	1 ¼	10	10*	759	**161 657 915**	2.114	**161 657 935**	2.134
50	40	1 ½	10	10*	1263	**161 657 916**	3.262	**161 657 936**	3.292
63	50	2	10	10*	1728	**161 657 917**	4.110	**161 657 937**	4.138

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	70	15	101	14	12	60	24	16	43	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅛	125	90	19	143	22	12	84	25	16	57	130	25	M6
120	⅛	135	100	19	173	26	15	99	26	26	69	180	45	M8
150	¼	140	105	19	214	32	15	119	36	26	88	180	45	M8
150	¼	155	120	19	226	39	15	132	36	26	88	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23

DIASTAR TenPlus





Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close)
Unions with solvent cement sockets BS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 684 512**	0.990	**161 684 532**	1.000
25	20	¾	10	10*	271	**161 684 513**	1.119	**161 684 533**	1.130
32	25	1	10	10*	481	**161 684 514**	2.040	**161 684 534**	1.959
40	32	1 ¼	10	10*	759	**161 684 515**	3.278	**161 684 535**	3.298
50	40	1 ½	10	10*	1263	**161 684 516**	5.224	**161 684 536**	5.254
63	50	2	10	10*	1728	**161 684 517**	6.326	**161 684 537**	6.142

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
96	⅛	127	14	12	68	25	16	57	128	25	M6	96	7
96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
120	⅛	167	22	12	93	26	26	69	166	25	M6	122	13
150	¼	196	26	15	101	36	26	88	192	45	M8	140	15
180	¼	239	32	15	124	37	26	103	222	45	M8	160	19
180	¼	251	39	15	137	37	26	103	266	45	M8	190	23



Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close) low pressure
Unions with solvent cement sockets JIS

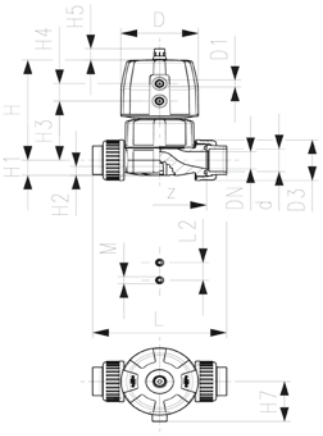
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	8*	125	**161 684 812**	1.135	**161 684 832**	1.142
25	20	¾	10	8*	271	**161 684 813**	1.121	**161 684 833**	1.132
32	25	1	10	8*	481	**161 684 814**	1.943	**161 684 834**	1.963
40	32	1 ¼	10	8*	759	**161 684 815**	3.296	**161 684 835**	3.316
50	40	1 ½	10	8*	1263	**161 684 816**	6.336	**161 684 836**	5.284
63	50	2	10	6*	1728	**161 684 817**	6.130	**161 684 837**	6.158

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
96	⅛	132	18	12	73	25	16	57	152	25	M6	120	10
96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
120	⅛	167	22	12	93	26	26	69	166	25	M6	122	13
150	¼	196	26	15	101	36	26	88	192	45	M8	140	15
180	¼	239	32	15	124	37	26	103	222	45	M8	160	19
180	¼	251	39	15	137	37	26	103	266	45	M8	190	23



Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close) low pressure
Unions with threaded sockets Rc

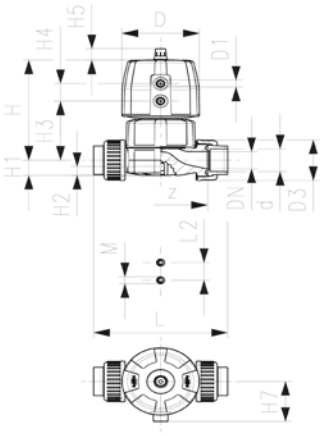
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM



Rc (inch)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10/8*	125	**161 684 912**	1.131	**161 684 932**	1.142
¾	20	10/8*	271	**161 684 913**	1.123	**161 684 933**	1.134
1	25	10/8*	481	**161 684 914**	1.945	**161 684 934**	1.965
1 ¼	32	10/8*	759	**161 684 915**	3.292	**161 684 935**	3.312
1 ½	40	10/8*	1263	**161 684 916**	5.252	**161 684 936**	5.282
2	50	10/6*	1728	**161 684 917**	6.202	**161 684 937**	6.230

Rc (inch)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
½	96	⅛	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
1	120	⅛	167	22	12	93	26	26	69	166	25	M6	122	13
1 ¼	150	¼	196	26	15	101	36	26	88	192	45	M8	140	15
1 ½	180	¼	239	32	15	124	37	26	103	222	45	M8	160	19
2	180	¼	251	39	15	137	37	26	103	266	45	M8	190	23



Diaphragm valve DIASTAR TenPlus PVC-U
FC (Fail safe to close) low pressure
With fixed flanges PVC-U JIS

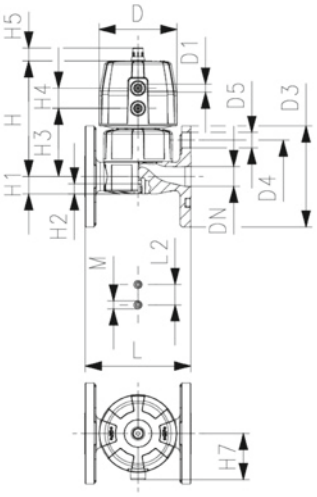
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM



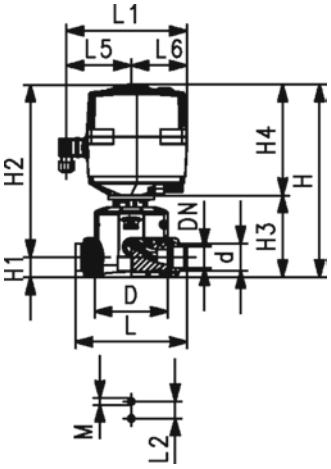
d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	8*	125	**161 687 912**	1.122	**161 687 932**	1.132
25	20	¾	10	8*	271	**161 687 913**	1.220	**161 687 933**	1.231
32	25	1	10	8*	481	**161 687 914**	2.114	**161 687 934**	2.134
40	32	1 ¼	10	8*	759	**161 687 915**	3.604	**161 687 935**	3.624
50	40	1 ½	10	8*	1263	**161 687 916**	5.510	**161 687 936**	5.540
63	50	2	10	6*	1728	**161 687 917**	6.357	**161 687 937**	6.385

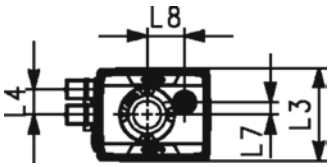
D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
96	⅛	95	70	15	127	14	12	68	25	16	57	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
120	⅛	125	90	19	167	22	12	93	26	26	69	130	25	M6
150	¼	135	100	19	196	26	15	101	36	26	88	180	45	M8
180	¼	140	105	19	239	32	15	124	37	26	103	180	45	M8
180	¼	155	120	19	251	39	15	137	37	26	103	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23

Diaphragm valves electric







e-DIASTAR Type 514 PVC-U 24V
With solvent cement sockets BS

Model:

- Voltage 24V AC/DC
- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- Integrated manual emergency override
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
32	25	10	442	**161 704 514**	3.728	**161 704 534**	3.748
63	50	6	1575	**161 704 517**	6.593	**161 704 537**	6.621

D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)
109	58	170	180	25	122	33	97	83	16	49	192	286	30	20	256
168	101	265	180	45	122	33	97	83	16	49		341	53	29	289

H4 (mm)	H5 (mm)	z (mm)	M
121	165	122	M6
176	165	122	M8



e-DIASTAR Type 514 PVC-U 24V
With solvent cement sockets ASTM

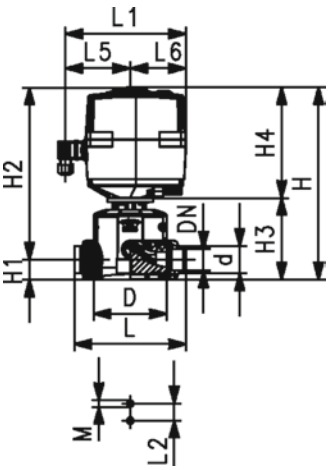
Model:

- Voltage 24V AC/DC
- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- Integrated manual emergency override
- Integrated stainless steel mounting inserts

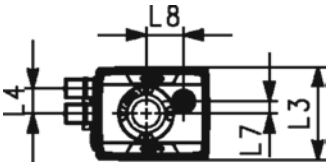
Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
32	25	10	**161 704 614**	3.734	**161 704 634**	3.754
63	50	6	**161 704 617**	6.601	**161 704 637**	6.629

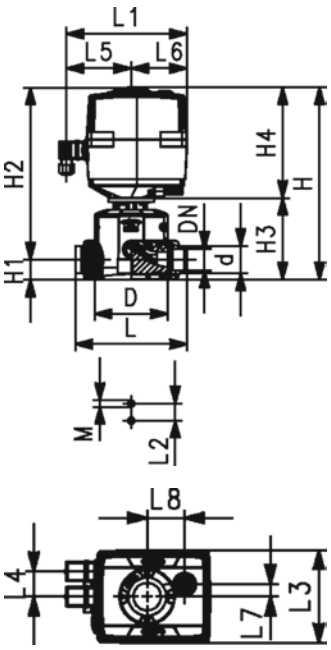


kv-value (Δp=1 bar) (l/min)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H (mm)
442	109	58	166	180	25	122	33	97	83	16	49	190	286
1575	168	101	266	180	45	122	33	97	83	16	49		341



H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	z (mm)	M
30	20	256	121	165	122	M6
53	29	289	176	165	122	M8





e-DIASTAR Type 514 PVC-U
24V
With solvent cement sockets JIS

Model:

- Voltage 24V AC/DC
- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- Integrated manual emergency override
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-100-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
32	25	1	10	442	**161 704 814**	3.732	**161 704 834**	3.752
63	50	2	6	1575	**161 704 817**	6.609	**161 704 837**	6.637

kv-value (Δp=1 bar) (l/min)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H (mm)
442	109	58	166	180	25	122	33	97	83	16	49	190	286
1575	168	101	266	180	45	122	33	97	83	16	49		341

H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	z (mm)	M
30	20	256	121	165	122	M6
53	29	289	176	165	122	M8



e-DIASTAR Type 514 PVC-U 100-230V
With solvent cement sockets BS

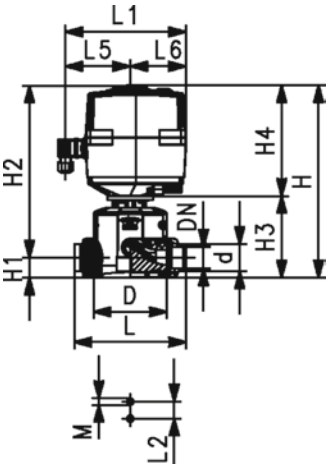
Model:

- Voltage 100-230V, 50-60Hz
- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- Integrated manual emergency override
- Integrated stainless steel mounting inserts

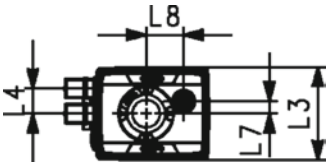
Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
32	25	10	**161 714 514**	3.728	**161 714 534**	3.748
63	50	6	**161 714 517**	6.593	**161 714 537**	6.621



kv-value (Δp=1 bar) (l/min)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H (mm)
442	109	58	166	180	25	122	33	97	83	16	49	190	286
1575	168	101	265	180	45	122	33	97	83	16	49		341



H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	z (mm)	M
30	20	256	121	165	122	M6
53	29	289	176	165	190	M8



e-DIASTAR Type 514 PVC-U 100-230V
With solvent cement sockets ASTM

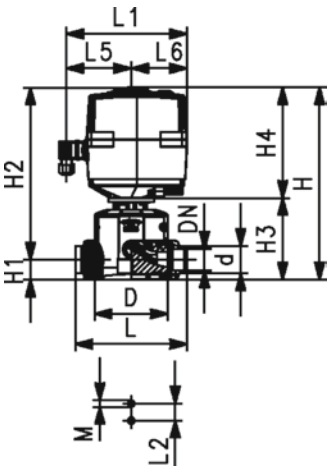
Model:

- Voltage 100-230V, 50-60Hz
- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- Integrated manual emergency override
- Integrated stainless steel mounting inserts

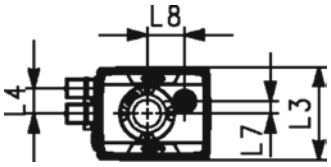
Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
32	25	10	**161 714 614**	3.734	**161 714 634**	3.754
63	50	6	**161 714 617**	6.601	**161 714 637**	6.629

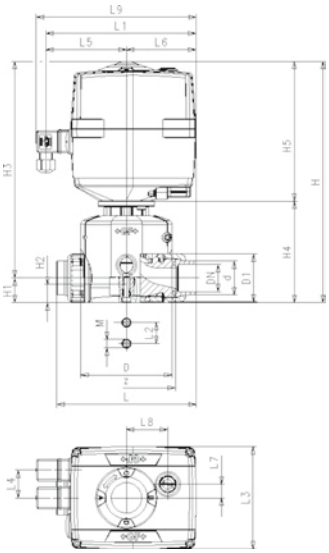


kv-value (Δp=1 bar) (l/min)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H (mm)
442	109	58	166	180	25	122	33	97	83	16	49	190	286
1575	168	101	265	180	45	122	33	97	83	16	49		341



H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	z (mm)	M
30	20	256	121	165	122	M6
53	29	289	176	165	190	M8





e-DIASTAR Type 514 PVC-U 100-230V
With solvent cement sockets JIS

Model:

- Voltage 100-230V, 50-60Hz
- Multiturn Actuator
- Heating element, position feedback (Open/Close)
- Integrated manual emergency override
- Integrated stainless steel mounting inserts

Option:

- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
32	25	10	**161 714 814**	3.732	**161 714 834**	3.752
63	50	6	**161 714 817**	6.609	**161 714 837**	6.637

kv-value (Δp=1 bar) (l/min)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H (mm)
442	108.5	58	170	180	25	122	33	97	82.5	16	49	190	286
1575	168.0	101	265	180	45	122	33	97	82.5	16	49	190	341

H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	z (mm)	M
30.0	20.0	256.0	121	165	122	M6
52.5	28.5	288.5	176	165	190	M8

Pressure regulating valves

Pressure reducing valve type 582

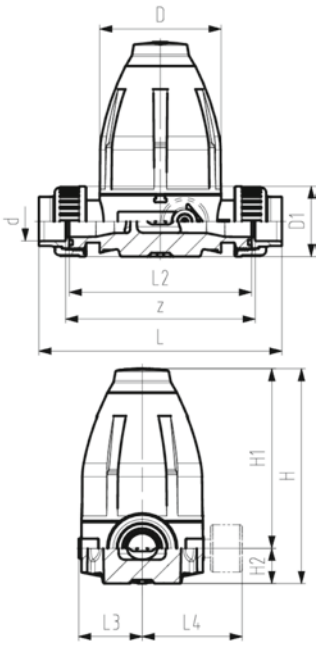


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets Inch BS
With manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.

0.3-3.0 bar (4-44 psi) on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	10	**161 582 322**	0.730	**161 582 332**
25	20	¾	10	**161 582 323**	1.520	**161 582 333**
32	25	1	10	**161 582 324**	1.550	**161 582 334**
40	32	1 ¼	10	**161 582 325**	4.100	**161 582 335**
50	40	1 ½	10	**161 582 326**	4.270	**161 582 336**
63	50	2	10	**161 582 327**	4.500	**161 582 337**

D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	M	z (mm)	Inch (inch)
79	43	132	111	21	12	161	120	42	77	M6	126	1/2
100	51	177	148	29	14	198	150	53	88	M6	156	3/4
100	58	177	148	29	14	204	150	53	88	M6	156	1
147	72	251	207	44	21	266	205	76	111	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	111	M8	211	1 1/2
147	101	251	207	44	21	285	205	76	111	M8	211	2

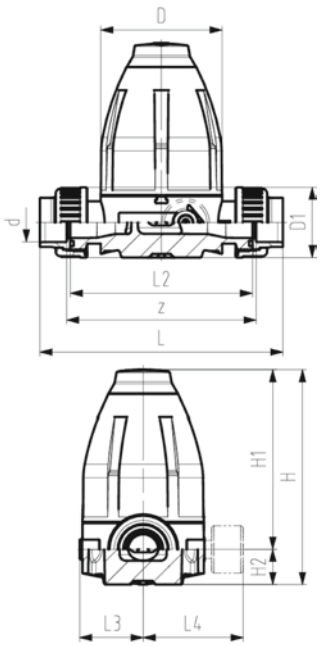


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets JIS
With manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)
- Attention: Manometer with brass connection in direct contact with medium. Check for chemical resistance, otherwise chose the optional manometer adapter for media separation.

0.3-3.0 bar (4-44 psi) on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	10	**161 582 422**	1.520	**161 582 432**
25	20	¾	10	**161 582 423**	1.520	**161 582 433**
32	25	1	10	**161 582 424**	1.550	**161 582 434**
40	32	1 ¼	10	**161 582 425**	4.100	**161 582 435**
50	40	1 ½	10	**161 582 426**	4.270	**161 582 436**
63	50	2	10	**161 582 427**	4.500	**161 582 437**

D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	M	z (mm)	Inch (inch)
100	51	177	148	29	14	194	150	53	77	M6	156	1/2
100	51	177	148	29	14	194	150	53	88	M6	156	3/4
100	58	177	148	29	14	200	150	53	88	M6	156	1
147	72	251	207	44	21	263	205	76	111	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	111	M8	211	1 1/2
147	101	251	207	44	21	287	205	76	111	M8	211	2

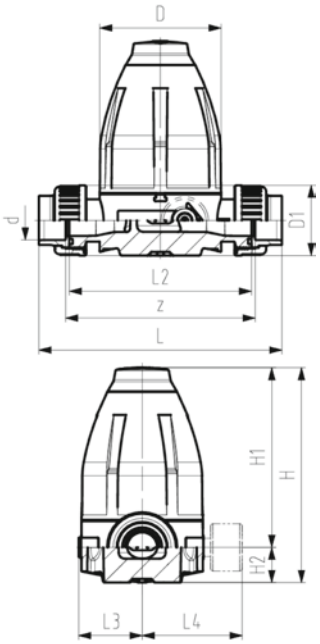


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets Inch BS
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	10	**161 582 302**	0.700	**161 582 312**
25	20	¾	10	**161 582 303**	1.490	**161 582 313**
32	25	1	10	**161 582 304**	1.520	**161 582 314**
40	32	1 ¼	10	**161 582 305**	4.070	**161 582 315**
50	40	1 ½	10	**161 582 306**	4.240	**161 582 316**
63	50	2	10	**161 582 307**	4.470	**161 582 317**

D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	Inch (inch)
79	43	132	111	21	12	161	120	42	M6	126	1/2
100	51	177	148	29	14	198	150	53	M6	156	3/4
100	58	177	148	29	14	204	150	53	M6	156	1
147	72	251	207	44	21	266	205	76	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	M8	211	1 1/2
147	101	251	207	44	21	285	205	76	M8	211	2

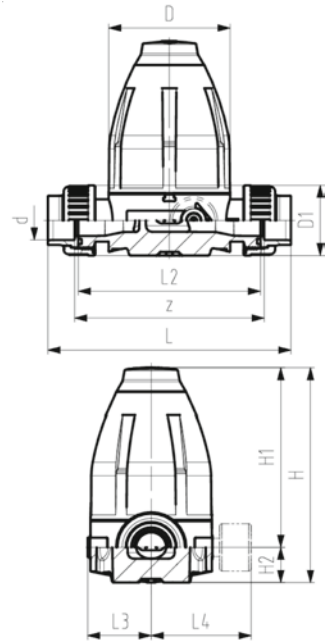


Pressure reducing valve type 582 PVC-U
Unions with solvent cement sockets JIS
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	10	**161 582 402**	1.490	**161 582 412**
25	20	¾	10	**161 582 403**	1.490	**161 582 413**
32	25	1	10	**161 582 404**	1.520	**161 582 414**
40	32	1 ¼	10	**161 582 405**	4.070	**161 582 415**
50	40	1 ½	10	**161 582 406**	4.240	**161 582 416**
63	50	2	10	**161 582 407**	4.470	**161 582 417**

D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	Inch (inch)
100	51	177	148	29	14	194	150	53	M6	156	1/2
100	51	177	148	29	14	194	150	53	M6	156	3/4
100	58	177	148	29	14	200	150	53	M6	156	1
147	72	251	207	44	21	263	205	76	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	M8	211	1 1/2
147	101	251	207	44	21	287	205	76	M8	211	2

Pressure retaining valve type 586

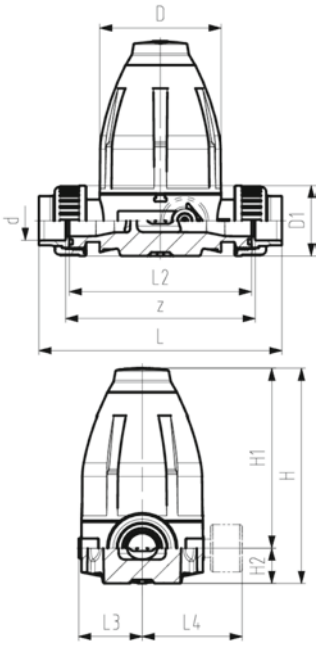


Pressure retaining valve type 586 PVC-U
Unions with solvent cement sockets Inch BS
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	10	**161 586 302**	0.690	**161 586 312**
25	20	¾	10	**161 586 303**	1.510	**161 586 313**
32	25	1	10	**161 586 304**	1.540	**161 586 314**
40	32	1 ¼	10	**161 586 305**	4.200	**161 586 315**
50	40	1 ½	10	**161 586 306**	4.260	**161 586 316**
63	50	2	10	**161 586 307**	4.500	**161 586 317**

D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	Inch (inch)
79	43	132	111	21	12	161	120	42	M6	126	1/2
100	51	177	148	29	14	198	150	53	M6	156	3/4
100	58	177	148	29	14	204	150	53	M6	156	1
147	72	251	207	44	21	266	205	76	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	M8	211	1 1/2
147	101	251	207	44	21	285	205	76	M8	211	2

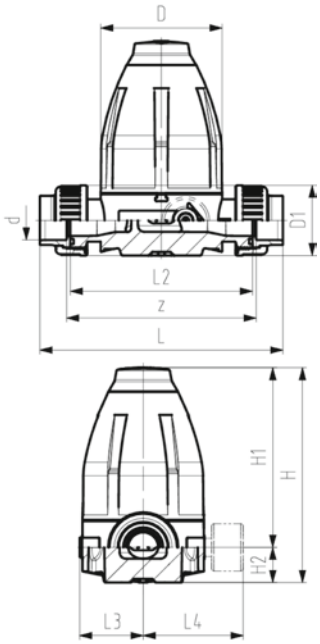


Pressure retaining valve type 586 PVC-U
Unions with solvent cement sockets JIS
Without manometer

Model:

- Diaphragm PTFE/EPDM
- Integrated stainless steel mounting inserts
- 0.5-9.0 bar (7-130 psi)

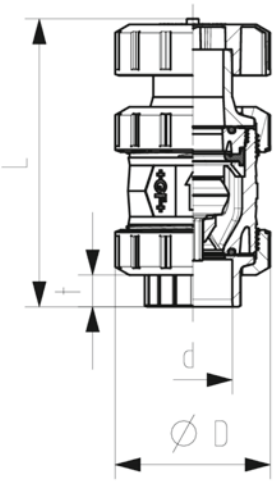
0.3-3.0 bar (4-44 psi) on request
Manometer on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	O-rings EPDM Code	Weight (kg)	O-rings FKM Code
20	15	½	10	**161 586 402**	1.510	**161 586 412**
25	20	¾	10	**161 586 403**	1.510	**161 586 413**
32	25	1	10	**161 586 404**	1.540	**161 586 414**
40	32	1 ¼	10	**161 586 405**	4.200	**161 586 415**
50	40	1 ½	10	**161 586 406**	4.260	**161 586 416**
63	50	2	10	**161 586 407**	4.500	**161 586 417**

D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L2 (mm)	L3 (mm)	M	z (mm)	Inch (inch)
100	51	177	148	29	14	194	150	53	M6	156	1/2
100	51	177	148	29	14	194	150	53	M6	156	3/4
100	58	177	148	29	14	200	150	53	M6	156	1
147	72	251	207	44	21	263	205	76	M8	211	1 1/4
147	83	251	207	44	21	273	205	76	M8	211	1 1/2
147	101	251	207	44	21	287	205	76	M8	211	2





Ventilating and bleed valve Type 591 PVC-U
With solvent cement sockets Inch BS

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

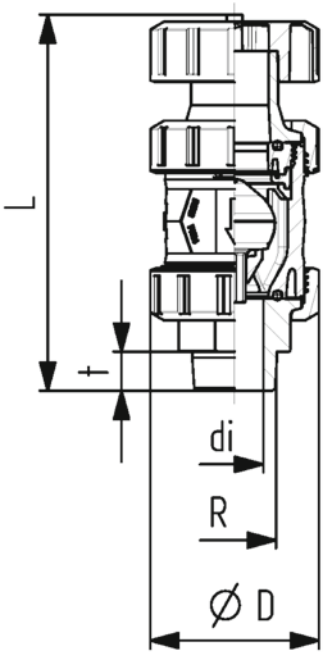
d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
	10	⅜	16	**161 591 061**	**161 591 071**	50	118	16	
	15	½	16	**161 591 062**	**161 591 072**	50	124	18	
	20	¾	16	**161 591 063**	**161 591 073**	58	142	21	
	25	1	16	**161 591 064**	**161 591 074**	68	157	24	
	32	1 ¼	16	**161 591 065**	**161 591 075**	84	179	29	
	40	1 ½	16	**161 591 066**	**161 591 076**	97	197	30	
	50	2	16	**161 591 067**	**161 591 077**	124	229	36	
75	65	2 ½	16	**161 591 008**	**161 591 018**	166	258	45	2 ½
	80	3	16	**161 591 069**	**161 591 079**	200	277	51	
	100	4	16	**161 591 070**	**161 591 080**	238	320	64	



Ventilating and bleed valve
Type 591 PVC-U
With brass thread BSP

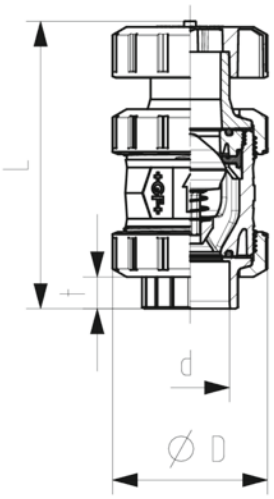
Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length



d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	di (mm)	D (mm)	L (mm)	t (mm)	R (inch)
16	10	16	**161 591 139**	**161 591 149**	10	50	135	13.0	⅜
20	15	16	**161 591 140**	**161 591 150**	13	50	140	14.0	½
25	20	16	**161 591 141**	**161 591 151**	16	58	156	16.5	¾
32	25	16	**161 591 142**	**161 591 152**	20	68	172	19.0	1
40	32	16	**161 591 143**	**161 591 153**	26	84	195	21.5	1 ¼
50	40	16	**161 591 144**	**161 591 154**	33	97	216	22.5	1 ½
63	50	16	**161 591 145**	**161 591 155**	40	124	252	27.0	2
75	65	16	**161 591 146**	**161 591 156**	58	166	292	38.2	2 ½
90	80	16	**161 591 147**	**161 159 157**	70	200	311	41.3	3
110	100	16	**161 591 148**	**161 159 158**	95	238	354	47.3	4





Ventilating valve type 595 PVC-U
With solvent cement sockets Inch BS

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	Size (inch)	PN (bar)	EPDM Code	FKM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
	10	⅜	16	**161 595 061**	**161 595 071**	50	118	16	
	15	½	16	**161 595 062**	**161 595 072**	50	124	18	
	20	¾	16	**161 595 063**	**161 595 073**	58	142	21	
	25	1	16	**161 595 064**	**161 595 074**	68	157	24	
	32	1 ¼	16	**161 595 065**	**161 595 075**	84	179	29	
	40	1 ½	16	**161 595 066**	**161 595 076**	97	197	30	
	50	2	16	**161 595 067**	**161 595 077**	124	229	36	
75	65	2 ½	16	**161 595 008**	**161 595 018**	166	258	45	2 ½
	80	3	16	**161 595 069**	**161 595 079**	200	277	51	
	100	4	16	**161 595 070**	**161 595 080**	238	320	64	

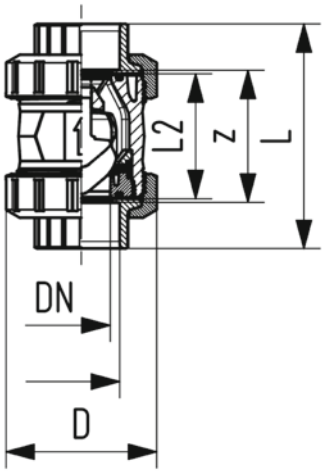
Cone check valves



Check valve type 561 PVC-U
With solvent cement sockets Inch BS

Model:

- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	⅜	16	190	**161 561 061**	0.120	**161 561 071**	0.120
20	15	½	16	180	**161 561 062**	0.120	**161 561 072**	0.120
25	20	¾	16	380	**161 561 063**	0.250	**161 561 073**	0.270
32	25	1	16	460	**161 561 064**	0.276	**161 561 074**	0.280
40	32	1 ¼	16	850	**161 561 065**	0.490	**161 561 075**	0.490
50	40	1 ½	16	1080	**161 561 066**	0.760	**161 561 076**	0.770
63	50	2	16	1670	**161 561 067**	1.374	**161 561 077**	1.370
75	65	2 ½	16	2950	**161 561 008**	3.160	**161 561 018**	3.170
90	80	3	16	3600	**161 561 069**	5.070	**161 561 079**	5.090
110	100	4	16	4150	**161 561 070**	8.010	**161 561 080**	8.050

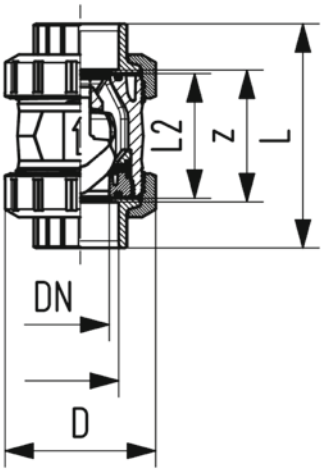
D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
50	92	56	60	
50	95	56	60	
58	110	65	69	
68	123	71	75	
84	146	85	89	
97	157	89	97	
124	183	101	110	
166	233	136	144	2 ½
200	254	141	151	
238	301	164	174	



Check valve type 561 PVC-U
With solvent cement sockets JIS

Model:

- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



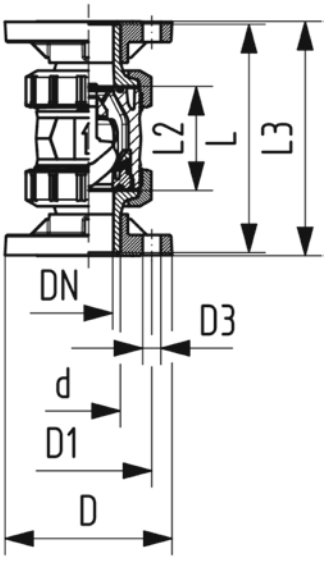
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
20	15	½	16	180	**161 561 302**	0.130	50	95	56	64
25	20	¾	16	380	**161 561 303**	0.250	58	110	65	72
32	25	1	16	460	**161 561 304**	0.290	68	123	71	79
40	32	1 ¼	16	850	**161 561 305**	0.510	84	146	85	94
50	40	1 ½	16	1080	**161 561 306**	0.750	97	157	89	95
63	50	2	16	1670	**161 561 307**	1.330	124	183	101	107
75	65	2 ½	16	2950	**161 561 308**	3.160	166	233	136	144
90	80	3	16	3600	**161 561 309**	5.040	200	254	141	151
110	100	4	16	4150	**161 561 310**	8.130	238	301	164	174



Check valve type 561 PVC-U
With fixed flanges JIS

Model:

- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



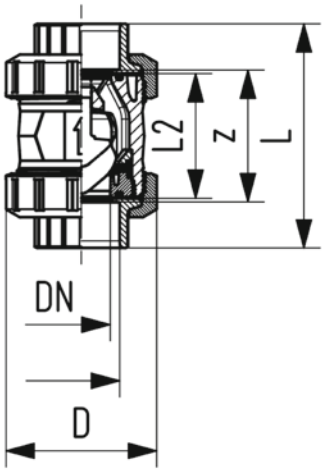
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)
25	20	¾	16	380	**161 561 323**	0.520	100	75	15	170	65	172
32	25	1	16	460	**161 561 324**	0.670	130	90	19	190	71	187
40	32	1 ¼	16	850	**161 561 325**	1.100	140	100	19	190	85	190
50	40	1 ½	16	1080	**161 561 326**	1.490	140	105	19	210	89	212
63	50	2	16	1670	**161 561 327**	2.430	160	120	19	240	101	234



Check valve type 562 PVC-U
With solvent cement sockets Inch BS

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	⅜	10	16	190	**161 562 061**	0.120	**161 562 071**	0.120
	½	15	16	180	**161 562 062**	0.120	**161 562 072**	0.120
	¾	20	16	380	**161 562 063**	0.250	**161 562 073**	0.270
	1	25	16	460	**161 562 064**	0.280	**161 562 074**	0.280
	1 ¼	32	16	850	**161 562 065**	0.490	**161 562 075**	0.490
	1 ½	40	16	1080	**161 562 066**	0.760	**161 562 076**	0.770
	2	50	16	1670	**161 562 067**	1.378	**161 562 077**	1.370
75	2 ½	65	16	2950	**161 562 008**	3.160	**161 562 018**	3.170
	3	80	16	3600	**161 562 069**	5.070	**161 562 079**	5.090
	4	100	16	4150	**161 562 070**	8.010	**161 562 080**	8.050

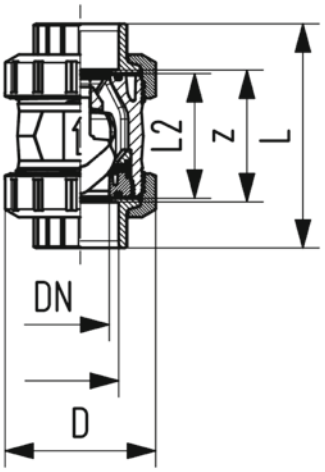
D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
50	92	56	60	
50	95	56	60	
58	110	65	69	
68	123	71	75	
84	146	85	89	
97	157	89	97	
124	183	101	110	
166	233	136	144	2 ½
200	254	141	151	
238	301	164	174	



Check valve type 562 PVC-U
With solvent cement sockets JIS

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



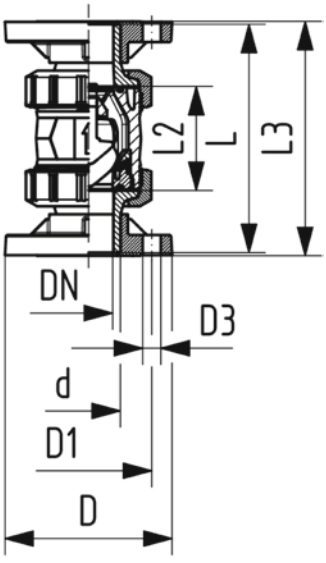
Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
½	15	16	180	**161 562 302**	0.130	50	95	56	64
¾	20	16	380	**161 562 303**	0.250	58	110	65	72
1	25	16	460	**161 562 304**	0.290	68	123	71	79
1 ¼	32	16	850	**161 562 305**	0.510	84	146	85	94
1 ½	40	16	1080	**161 562 306**	0.750	97	157	89	95
2	50	16	1670	**161 562 307**	1.330	124	183	101	107
2 ½	65	16	2950	**161 562 308**	3.160	166	233	136	144
3	80	16	3600	**161 562 309**	5.040	200	254	141	151
4	100	16	4150	**161 562 310**	8.130	238	301	164	174



Check valve type 562 PVC-U
With fixed flanges JIS

Model:

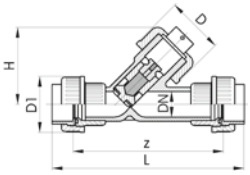
- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)
¾	20	16	380	**161 562 323**	0.520	100	75	15	170	65	172
1	25	16	460	**161 562 324**	0.670	130	90	19	190	71	187
1 ¼	32	16	850	**161 562 325**	1.100	140	100	19	190	85	190
1 ½	40	16	1080	**161 562 326**	1.490	140	105	19	210	89	212
2	50	16	1670	**161 562 327**	2.430	160	120	19	240	101	234

Angle seat valves





Angle seat check valve type 303 PVC-U
Unions with solvent cement sockets JIS

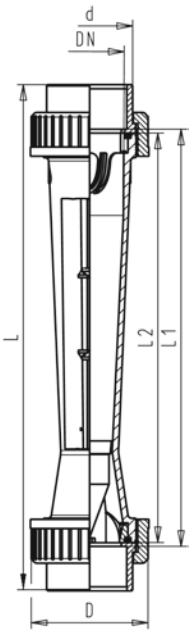
Model:

- For horizontal or vertical installation
- Leakproof even at minimum pressure
- Specific gravity of piston approx. 2 kg/dm^3

DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	L (mm)	z (mm)
15	½	10	95	**161 303 102**	0.300	43	53	65	194	162
20	¾	10	180	**161 303 103**	0.286	47	53	75	208	170
25	1	10	327	**161 303 104**	0.457	56	53	90	224	180
32	1 ¼	10	484	**161 303 105**	0.833	64	74	102	256	204
40	1 ½	10	725	**161 303 106**	1.300	82	83	123	290	228
50	2	10	1130	**161 303 107**	2.205	95	103	144	342	266

Variable area flow meters





Variable area flow meters
Float in PVDF without magnet
With solvent cement sockets PVC-U BS Inch

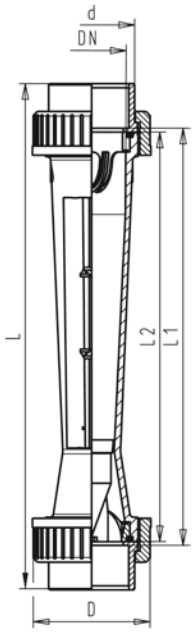
Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65 see accessories for variable area flow meters

Scale range (l/h)	d (inch)	DN (mm)	Taper tube in PVC-U transp. O-rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)
50 - 500	1	25	**199 335 400**	**199 335 420**	**199 335 440**	0.440
100 - 1000	1	25	**199 335 401**	**199 335 421**	**199 335 441**	0.440
150 - 1500	1 ¼	32	**199 335 402**	**199 335 422**	**199 335 442**	0.620
250 - 2500	1 ¼	32	**199 335 403**	**199 335 423**	**199 335 443**	0.620
200 - 2000	1 ½	40	**199 335 404**	**199 335 424**	**199 335 444**	0.900
300 - 3000	1 ½	40	**199 335 405**	**199 335 425**	**199 335 445**	0.900
600 - 6000	1 ½	40	**199 335 406**	**199 335 426**	**199 335 446**	0.900
600 - 6000	2	50	**199 335 407**	**199 335 427**	**199 335 447**	1.225
1000 - 10000	2	50	**199 335 408**	**199 335 428**	**199 335 448**	1.225
1500 - 15000	2	50	**199 335 409**	**199 335 429**	**199 335 449**	1.225
2000 - 20000	2 ½	65	**199 335 010**	**199 335 030**	**199 335 050**	2.639
3000 - 30000	2 ½	65	**199 335 011**	**199 335 031**	**199 335 051**	2.572
8000 - 60000	2 ½	65	**199 335 012**	**199 335 032**	**199 335 052**	2.432

Scale range (l/h)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
50 - 500	58	385	341	335
100 - 1000	58	385	341	335
150 - 1500	72	393	341	335
250 - 2500	72	393	341	335
200 - 2000	83	403	341	335
300 - 3000	83	403	341	335
600 - 6000	83	403	341	335
600 - 6000	101	417	341	335
1000 - 10000	101	417	341	335
1500 - 15000	101	417	341	335
2000 - 20000	135	429	341	335
3000 - 30000	135	429	341	335
8000 - 60000	135	429	341	335





Variable area flow meters
Float in PVDF with magnet
With solvent cement sockets PVC-U BS Inch

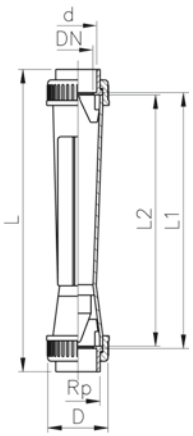
Model:

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65 see accessories for variable area flow meters

Scale range (l/h)	d (inch)	DN (mm)	Taper tube in PVC-U transp. O-rings in EPDM Code	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)
50 - 500	1	25	**199 335 500**	**199 335 520**	**199 335 540**	0.440
100 - 1000	1	25	**199 335 501**	**199 335 521**	**199 335 541**	0.440
150 - 1500	1 ¼	32	**199 335 502**	**199 335 522**	**199 335 542**	0.620
250 - 2500	1 ¼	32	**199 335 503**	**199 335 523**	**199 335 543**	0.620
200 - 2000	1 ½	40	**199 335 504**	**199 335 524**	**199 335 544**	0.900
300 - 3000	1 ½	40	**199 335 505**	**199 335 525**	**199 335 545**	0.900
600 - 6000	1 ½	40	**199 335 506**	**199 335 526**	**199 335 546**	0.900
600 - 6000	2	50	**199 335 507**	**199 335 527**	**199 335 547**	1.225
1000 - 10000	2	50	**199 335 508**	**199 335 528**	**199 335 548**	1.225
1500 - 15000	2	50	**199 335 509**	**199 335 529**	**199 335 549**	1.225
2000 - 20000	2 ½	65	**199 335 110**	**199 335 130**	**199 335 150**	2.441
3000 - 30000	2 ½	65	**199 335 511**	**199 335 131**	**199 335 151**	2.377
8000 - 60000	2 ½	65	**199 335 112**	**199 335 132**	**199 335 152**	2.150

D (mm)	L (mm)	L1 (mm)	L2 (mm)
58	385	341	335
58	385	341	335
72	393	341	335
72	393	341	335
83	403	341	335
83	403	341	335
83	403	341	335
101	417	341	335
101	417	341	335
101	417	341	335
135	429	341	335
135	429	341	335
135	429	341	335





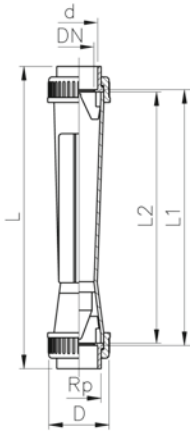
Short Version
Float in PVDF without magnet
With solvent cement sockets PVC-U BS Inch

Model:

- Union nuts and valve ends in other materials on request

Type	Scale range (l/h)	d (inch)	DN (mm)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	Taper tube in PVC-U transp. Orings in EPDM Code	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK50	2.5 - 25	⅜	10	**198 807 000**	0.190	**20014A290**	35	199	171	165
SK51	5 - 50	⅜	10	**198 807 001**	0.190	**20014A291**	35	199	171	165
SK52	10 - 100	⅜	10	**198 807 002**	0.190	**20014A292**	35	199	171	165
SK60	8 - 80	½	15	**198 807 003**	0.260	**20014A293**	43	223	191	185
SK61	15 - 150	½	15	**198 807 004**	0.260	**20014A294**	43	223	191	185
SK62	20 - 200	½	15	**198 807 005**	0.260	**20014A295**	43	223	191	185
SK70	15 - 150	1	25	**198 807 006**	0.470	**20014A296**	60	250	206	200
SK71	30 - 300	1	25	**198 807 007**	0.470	**20014A297**	60	250	206	200
SK72	50 - 500	1	25	**198 807 008**	0.470	**20014A298**	60	250	206	200
SK73	100 - 1000	1	25	**198 807 009**	0.470	**20014A299**	60	250	206	200

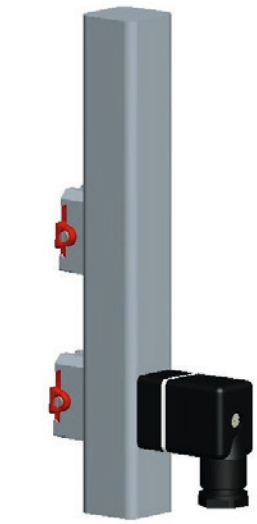


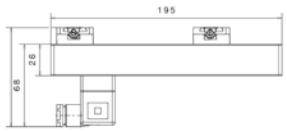


Short Version
Float in PVDF with magnet
With solvent cement sockets PVC-U BS Inch

Type	Scale range (l/h)	d (inch)	DN (mm)	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	Taper tube in PVC-U transp. Orings in EPDM Code	D (mm)	L (mm)	L1 (mm)	L2 (mm)
SK500	2.5 - 25	⅜	10	**198 807 010**	0.180	**20014A300**	35	199	171	165
SK510	5 - 50	⅜	10	**198 807 011**	0.180	**20014A301**	35	199	171	165
SK520	10 - 100	⅜	10	**198 807 012**	0.180	**20014A302**	35	199	171	165
SK600	8 - 80	½	15	**198 807 013**	0.180	**20014A303**	43	223	191	185
SK610	15 - 150	½	15	**198 807 014**	0.250	**20014A304**	43	223	191	185
SK620	20 - 200	½	15	**198 807 015**	0.170	**20014A305**	43	223	191	185
SK700	15 - 150	1	25	**198 807 016**	0.470	**20014A306**	60	250	206	200
SK710	30 - 300	1	25	**198 807 017**	0.380	**20014A307**	60	250	206	200
SK720	50 - 500	1	25	**198 807 018**	0.370	**20014A308**	60	250	206	200
SK730	100 - 1000	1	25	**198 807 019**	0.370	**20014A309**	60	250	206	200

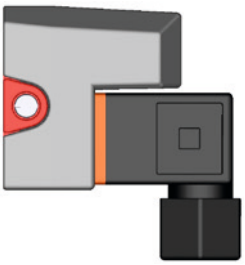
Accessories

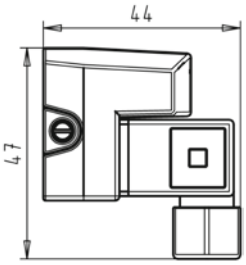




Accessories for variable area flow meter
4-20 mA sensor
For type 335 and type 350

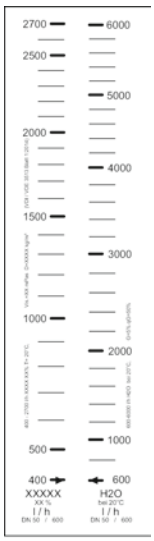
d (mm)	DN (mm)	Size (inch)	Type	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	GK 15	50-500	**199 335 962**	0.150
32	25	1	GK 15	100-1000	**199 335 963**	0.150
40	32	1 ¼	GK 15	150-1500	**199 335 964**	0.150
40	32	1 ¼	GK 15	250-2500	**199 335 965**	0.150
50	40	1 ½	GK 15	200-2000	**199 335 966**	0.150
50	40	1 ½	GK 15	300-3000	**199 335 967**	0.150
50	40	1 ½	GK 15	600-6000	**199 335 968**	0.150
63	50	2	GK 15	600-6000	**199 335 969**	0.150
63	50	2	GK 15	1000-10000	**199 335 991**	0.150
63	50	2	GK 15	1500-15000	**199 335 992**	0.120
75	65	2 ½	GK 15	2000-20000	**199 335 993**	0.150
75	65	2 ½	GK 15	3000-30000	**199 335 994**	0.150
75	65	2 ½	GK 15	8000-60000	**199 335 995**	0.150





Accessories for variable area flow meter
Limit contacts GK10/GK11
For type 335/350 and short version

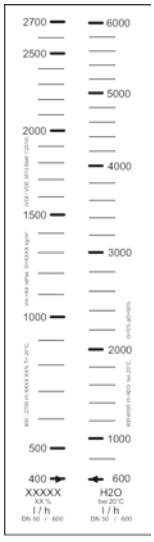
Type	Code	Weight (kg)
GK10 (min.)	**198 335 998**	0.035
GK11 (max.)	**198 335 999**	0.034



Example of special scale

Special scale for type 335/350
% for H2O

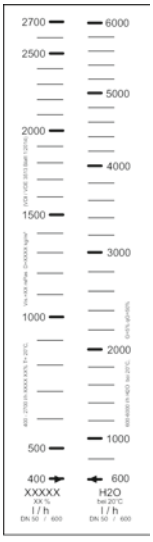
d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	10-100 %	50-500	**199 335 084**	0.050
32	25	1	10-100 %	100-1000	**199 335 083**	0.003
40	32	1 ¼	10-100 %	150-1500	**199 335 069**	0.050
40	32	1 ¼	10-100 %	250-2500	**199 335 068**	0.050
50	40	1 ½	10-100 %	200-2000	**199 335 054**	0.050
50	40	1 ½	10-100 %	300-3000	**199 335 053**	0.002
50	40	1 ½	10-100 %	600-6000	**199 335 039**	0.050
63	50	2	10-100 %	600-6000	**199 335 038**	0.002
63	50	2	10-100 %	1000-10000	**199 335 037**	0.002
63	50	2	10-100 %	1500-15000	**199 335 036**	0.050
75	65	2 ½	10-100 %	2000-20000	**199 335 035**	0.050
75	65	2 ½	10-100 %	3000-30000	**199 335 034**	0.050
75	65	2 ½	13.3-100 %	8000-60000	**199 335 033**	0.050



Example of special scale

Special scale for type 335/350
m3/h

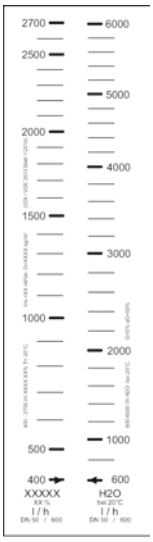
d (mm)	DN (mm)	Size (inch)	Scale range (m^3/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	0.05 - 0.50	50 - 500	**199 335 655**	0.050
32	25	1	0.10 - 1.00	100 - 1000	**199 335 656**	0.050
40	32	1 ¼	0.15 - 1.50	150 - 1500	**199 335 657**	0.050
40	32	1 ¼	0.25 - 2.50	250 - 2500	**199 335 658**	0.050
50	40	1 ½	0.20 - 2.00	200 - 2000	**199 335 659**	0.050
50	40	1 ½	0.30 - 3.00	300 - 3000	**199 335 660**	0.050
50	40	1 ½	0.60 - 6.00	600 - 6000	**199 335 661**	0.050
63	50	2	0.60 - 6.00	600 - 6000	**199 335 662**	0.050
63	50	2	1.00 - 10.00	1000 - 10000	**199 335 663**	0.050
63	50	2	1.50 - 15.00	1500 - 15000	**199 335 664**	0.050
75	65	2 ½	2.00 - 20.00	2000 - 20000	**199 335 665**	0.050
75	65	2 ½	3.00 - 30.00	3000 - 30000	**199 335 666**	0.008
75	65	2 ½	8.00 - 60.00	8000 - 60000	**199 335 667**	0.050



Example of special scale

Special scale for type 335/350
Imp. GPM

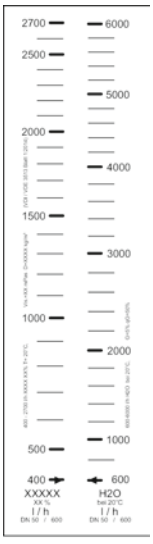
d (mm)	DN (mm)	Size (inch)	Scale range (gal/min)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	0.183 - 1.830	50-500	**199 335 670**	0.050
32	25	1	0.366 - 3.660	100-1000	**199 335 671**	0.050
40	32	1 ¼	0.550 - 5.500	150-1500	**199 335 672**	0.050
40	32	1 ¼	0.916 - 9.160	250-2500	**199 335 673**	0.050
50	40	1 ½	0.733 - 7.330	200-2000	**199 335 674**	0.050
50	40	1 ½	1.090 - 10.900	300-3000	**199 335 675**	0.050
50	40	1 ½	2.190 - 21.900	600-6000	**199 335 676**	0.050
63	50	2	2.200 - 22.000	600-6000	**199 335 677**	0.050
63	50	2	3.660 - 36.600	1000-10000	**199 335 678**	0.050
63	50	2	5.490 - 54.900	1500-15000	**199 335 679**	0.050
75	65	2 ½	7.320 - 73.200	2000-20000	**199 335 680**	0.050
75	65	2 ½	10.980 - 109.800	3000-30000	**199 335 681**	0.050
75	65	2 ½	29.280 - 219.600	8000-60000	**199 335 682**	0.050



Example of special scale

Special scale for type 335/350
US GPM

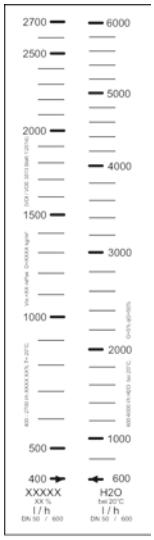
d (mm)	DN (mm)	Size (inch)	Scale range (gal/min)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	0.22 - 2.20	50 - 500	**199 335 685**	0.050
32	25	1	0.44 - 4.40	100 - 1000	**199 335 686**	0.050
40	32	1 ¼	0.66 - 6.60	150 - 1500	**199 335 687**	0.002
40	32	1 ¼	1.10 - 11.00	250 - 2500	**199 335 688**	0.050
50	40	1 ½	0.88 - 8.80	200 - 2000	**199 335 689**	0.002
50	40	1 ½	1.32 - 13.20	300 - 3000	**199 335 690**	0.050
50	40	1 ½	2.64 - 26.40	600 - 6000	**199 335 691**	0.002
63	50	2	2.64 - 26.40	600 - 6000	**199 335 692**	0.050
63	50	2	4.40 - 44.02	1000 - 10000	**199 335 693**	0.002
63	50	2	6.60 - 66.04	1500 - 15000	**199 335 694**	0.050
75	65	2 ½	8.80 - 88.00	2000 - 20000	**199 335 695**	0.002
75	65	2 ½	13.20 - 132.00	3000 - 30000	**199 335 696**	0.002
75	65	2 ½	35.20 - 264.00	8000 - 60000	**199 335 697**	0.050



Example of special scale

Special scale for type 335/350
l/h

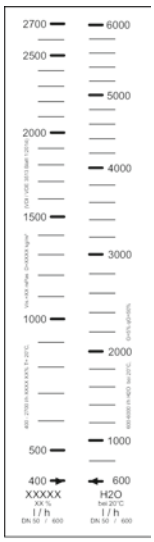
d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Code	Weight (kg)
32	25	1	50 - 500	**199 335 861**	0.050
32	25	1	100 - 1000	**199 335 862**	0.050
40	32	1 ¼	150 - 1500	**199 335 863**	0.050
40	32	1 ¼	250 - 2500	**199 335 864**	0.050
50	40	1 ½	200 - 2000	**199 335 865**	0.050
50	40	1 ½	600 - 6000	**199 335 867**	0.050
50	40	1 ½	300 - 3000	**199 335 866**	0.050
63	50	2	600 - 6000	**199 335 868**	0.050
63	50	2	1000 - 10000	**199 335 869**	0.050
63	50	2	1500 - 15000	**199 335 870**	0.050
75	65	2 ½	2000 - 20000	**199 335 871**	0.050
75	65	2 ½	3000 - 30000	**199 335 872**	0.050
75	65	2 ½	8000 - 60000	**199 335 873**	0.050



Example of special scale

Special scale for type 335/350
Air/0bar/Nm3/h

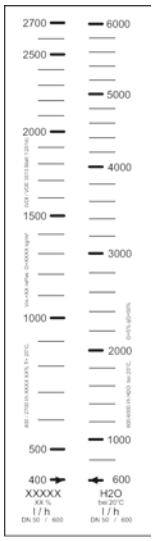
d (mm)	DN (mm)	Size (inch)	Scale range (m^3/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	2.0 - 15.0	50 - 500	**199 350 655**	0.002
32	25	1	3.5 - 30.0	100 - 1000	**199 350 656**	0.050
40	32	1 ¼	5.0 - 45.0	150 - 1500	**199 350 657**	0.050
40	32	1 ¼	8.0 - 76.0	250 - 2500	**199 350 658**	0.050
50	40	1 ½	7.0 - 60.0	200 - 2000	**199 350 659**	0.050
50	40	1 ½	10.0 - 87.0	300- 3000	**199 350 660**	0.002
50	40	1 ½	20.0 - 170.0	600 - 6000	**199 350 661**	0.050
63	50	2	25.0 - 180.0	600 - 6000	**199 350 662**	0.050
63	50	2	30.0 - 280.0	1000 - 10000	**199 350 663**	0.050
63	50	2	50.0 - 440.0	1500 - 15000	**199 350 664**	0.050
75	65	2 ½	70.0 - 580.0	2000 - 20000	**199 350 665**	0.050
75	65	2 ½	100.0 - 900.0	3000 - 30000	**199 350 666**	0.050
75	65	2 ½	230.0 - 1650.0	8000 - 60000	**199 350 667**	0.050



Example of special scale

Special scale for type 335/350
HCl 30-33% l/h

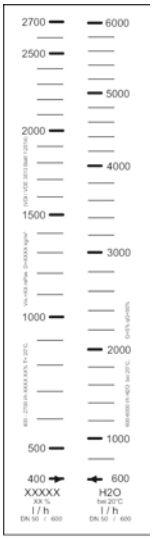
d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	40 - 430	50-500	**199 350 670**	0.050
32	25	1	80 - 860	100-1000	**199 350 671**	0.002
40	32	1 ¼	150 - 1250	150-1500	**199 350 672**	0.050
40	32	1 ¼	200 - 2150	250-2500	**199 350 673**	0.050
50	40	1 ½	200 - 1850	200-2000	**199 350 674**	0.050
50	40	1 ½	300 - 2500	300-3000	**199 350 675**	0.050
50	40	1 ½	600 - 4900	600-6000	**199 350 676**	0.010
63	50	2	600 - 5400	600-6000	**199 350 677**	0.050
63	50	2	800 - 8400	1000-10000	**199 350 678**	0.050
63	50	2	1000 - 12750	1500-15000	**199 350 679**	0.050
75	65	2 ½	2000 - 17500	2000-20000	**199 350 680**	0.050
75	65	2 ½	3000 - 26500	3000-30000	**199 350 681**	0.050
75	65	2 ½	6000 - 50000	8000-60000	**199 350 682**	0.050



Example of special scale

Special scale for type 335/350
NaOH 30% l/h

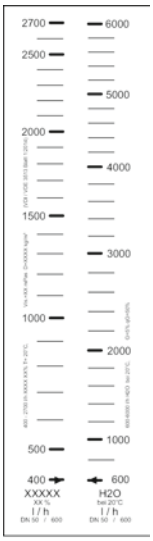
d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	30 - 320	50-500	**199 350 685**	0.050
32	25	1	70 - 660	100-1000	**199 350 686**	0.050
40	32	1 ¼	100 - 900	150-1500	**199 350 687**	0.050
40	32	1 ¼	100 - 1600	250-2500	**199 350 688**	0.050
50	40	1 ½	200 - 1400	200-2000	**199 350 689**	0.002
50	40	1 ½	300 - 1950	300-3000	**199 350 690**	0.050
50	40	1 ½	500 - 3800	600-6000	**199 350 691**	0.050
63	50	2	500 - 4300	600-6000	**199 350 692**	0.050
63	50	2	600 - 6600	1000-10000	**199 350 693**	0.050
63	50	2	750 - 9500	1500-15000	**199 350 694**	0.050
75	65	2 ½	1300 - 13000	2000-20000	**199 350 695**	0.050
75	65	2 ½	2600 - 20000	3000-30000	**199 350 696**	0.050
75	65	2 ½	6000 - 40000	8000-60000	**199 350 697**	0.050



Example of special scale

Special scale for type 335/350
NaOH 50% l/h

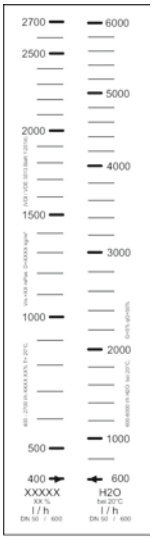
d (mm)	DN (mm)	Size (inch)	Scale range (l/h)	Corresponds to water scale (l/h)	Code	Weight (kg)
32	25	1	10 - 62	50-500	**199 350 755**	0.050
32	25	1	10 - 195	100-1000	**199 350 756**	0.050
40	32	1 ¼	20 - 350	150-1500	**199 350 757**	0.050
40	32	1 ¼	5 - 760	250-2500	**199 350 758**	0.050
50	40	1 ½	5 - 540	200-2000	**199 350 759**	0.050
50	40	1 ½	105 - 1200	300-3000	**199 350 760**	0.050
50	40	1 ½	400 - 2350	600-6000	**199 350 761**	0.002
63	50	2	100 - 2200	600-6000	**199 350 762**	0.050
63	50	2	100 - 4000	1000-10000	**199 350 763**	0.050
63	50	2	300 - 5000	1500-15000	**199 350 764**	0.050
75	65	2 ½	200 - 7000	2000-20000	**199 350 765**	0.050
75	65	2 ½	400 - 9800	3000-30000	**199 350 766**	0.050
75	65	2 ½	2000 - 15000	8000-60000	**199 350 767**	0.050



Example of special scale

Special scale for short version
Water l/h

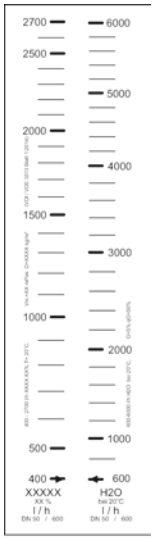
d (mm)	DN (mm)	Size (inch)	Type	Scale range (l/h)	Code
16	10	⅜	SK 50 / 500	2.5 - 25.0	**198 801 386**
16	10	⅜	SK 51 / 510	5.0 - 50.0	**198 801 387**
16	10	⅜	SK 52 / 520	10.0 - 100.0	**198 801 388**
20	15	½	SK 60 / 600	8.0 - 80.0	**198 801 389**
20	15	½	SK 61 / 610	15.0 - 150.0	**198 801 390**
20	15	½	SK 62 / 620	20.0 - 200.0	**198 801 391**
32	25	1	SK 70 / 700	15.0 - 150.0	**198 801 392**
32	25	1	SK 71 / 710	30.0 - 300.0	**198 801 393**
32	25	1	SK 72 / 720	50.0 - 500.0	**198 801 394**
32	25	1	SK 73 / 730	100.0 - 1000.0	**198 801 395**



Example of special scale

Special scale for short version
US GPM

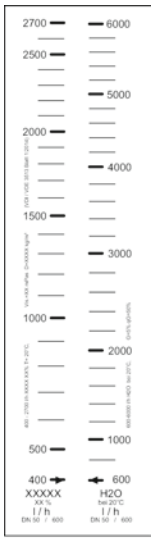
d (mm)	DN (mm)	Size (inch)	Type	Scale range (gal/min)	Code
16	10	⅜	SK 50 / 500	0.01 - 0.11	**198 801 961**
16	10	⅜	SK 51 / 510	0.02 - 0.22	**198 801 962**
16	10	⅜	SK 52 / 520	0.04 - 0.44	**198 801 963**
20	15	½	SK 60 / 600	0.03 - 0.35	**198 801 964**
20	15	½	SK 61 / 610	0.06 - 0.66	**198 801 965**
20	15	½	SK 62 / 620	0.08 - 0.88	**198 801 966**
32	25	1	SK 70 / 700	0.06 - 0.66	**198 801 967**
32	25	1	SK 71 / 710	0.13 - 1.32	**198 801 968**
32	25	1	SK 72 / 720	0.22 - 2.20	**198 801 969**
32	25	1	SK 73 / 730	0.44 - 4.40	**198 801 970**



Example of special scale

Special scale for short version
Air/0bar/Nm3/h

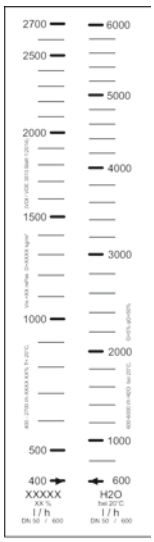
d (mm)	DN (mm)	Size (inch)	Type	Scale range (m^3/h)	Code
16	10	⅜	SK 50 / 500	0.50 - 0.95	**198 801 308**
16	10	⅜	SK 51 / 510	0.50 - 1.90	**198 801 309**
16	10	⅜	SK 52 / 520	0.80 - 3.00	**198 801 310**
20	15	½	SK 60 / 600	0.60 - 2.80	**198 801 311**
20	15	½	SK 61 / 610	1.40 - 5.60	**198 801 312**
20	15	½	SK 62 / 620	1.50 - 7.00	**198 801 313**
32	25	1	SK 70 / 700	1.00 - 6.50	**198 801 314**
32	25	1	SK 71 / 710	1.50 - 11.00	**198 801 315**
32	25	1	SK 72 / 720	3.00 - 18.00	**198 801 316**
32	25	1	SK 73 / 730	6.00 - 30.00	**198 801 317**



Example of special scale

Special scale for short version
HCl 30 - 33% l/h

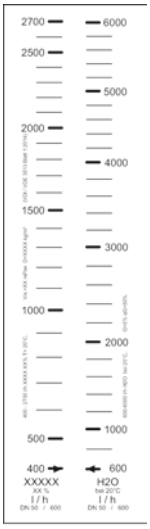
d (mm)	DN (mm)	Size (inch)	Type	Scale range (l/h)	Code
16	10	⅜	SK 50 / 500	2.5 - 20.0	**198 806 511**
16	10	⅜	SK 51 / 510	5.0 - 40.0	**198 806 512**
16	10	⅜	SK 52 / 520	10.0 - 85.0	**198 806 513**
20	15	½	SK 60 / 600	8.0 - 70.0	**198 806 514**
20	15	½	SK 61 / 610	15.0 - 125.0	**198 806 515**
20	15	½	SK 62 / 620	20.0 - 170.0	**198 806 516**
32	25	1	SK 71 / 710	30.0 - 260.0	**198 806 518**
32	25	1	SK 70 / 700	5.0 - 125.0	**198 806 517**
32	25	1	SK 72 / 720	50.0 - 425.0	**198 806 519**
32	25	1	SK 73 / 730	100.0 - 850.0	**198 806 520**



Example of special scale

Special scale for short version
NaOH 30% l/h

d (mm)	DN (mm)	Size (inch)	Type	Scale range (l/h)	Code
16	10	⅜	SK 50 / 500	0.2 - 5.0	**198 806 521**
16	10	⅜	SK 51 / 510	1.0 - 14.0	**198 806 522**
16	10	⅜	SK 52 / 520	3.0 - 35.0	**198 806 523**
20	15	½	SK 60 / 600	2.0 - 23.0	**198 806 524**
20	15	½	SK 61 / 610	3.0 - 55.0	**198 806 525**
20	15	½	SK 62 / 620	5.0 - 80.0	**198 806 526**
32	25	1	SK 70 / 700	3.0 - 55.0	**198 806 527**
32	25	1	SK 71 / 710	6.0 - 130.0	**198 806 528**
32	25	1	SK 72 / 720	10.0 - 250.0	**198 806 529**
32	25	1	SK 73 / 730	40.0 - 590.0	**198 806 530**



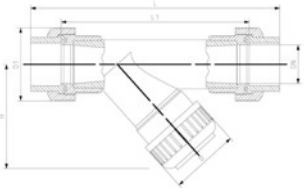
Example of special scale

Special scale for short version
NaOH 50% l/h

d (mm)	DN (mm)	Size (inch)	Type	Scale range (l/h)	Code
20	15	½	SK 60 / 600	0.2 - 3.5	**198 806 531**
20	15	½	SK 61 / 610	0.5 - 10.0	**198 806 532**
20	15	½	SK 62 / 620	0.5 - 16.0	**198 806 533**
32	25	1	SK 70 / 700	0.5 - 11.0	**198 806 534**
32	25	1	SK 71 / 710	1.0 - 33.0	**198 806 535**
32	25	1	SK 72 / 720	2.0 - 80.0	**198 806 536**
32	25	1	SK 73 / 730	10.0 - 220.0	**198 806 537**

Strainers





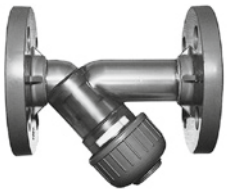
Line strainer type 305 PVC-U
Transparent body with solvent cement unions JIS

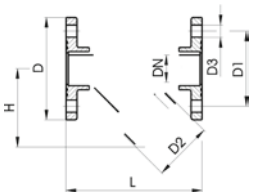
Model:

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens

Cylindrical screens must be ordered separately

DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	L (mm)	L1 (mm)
15	½	10	35	**192 305 702**	0.271	43	53	65	195.4	164
20	¾	10	64	**192 305 703**	0.615	47	53	76	210.1	170
25	1	10	90	**192 305 704**	0.393	56	60	90	228.0	180
32	1 ¼	10	155	**192 305 705**	0.725	71	74	102	261.5	204
40	1 ½	10	225	**192 305 706**	1.000	82	83	123	294.3	228
50	2	10	370	**192 305 707**	1.800	95	103	147	348.3	226





Line strainer type 305 PVC-U
Grey body with fixed flanges JIS

Model:

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens

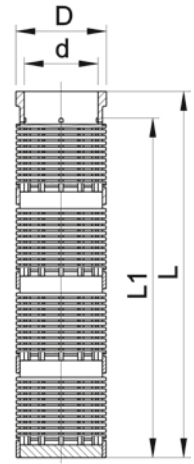
Cylindrical screens must be ordered separately

DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	L (mm)
15	½	10	35	**192 305 717**	0.320	95	70	43	15	65	130
20	¾	10	64	**192 305 718**	0.170	100	75	47	15	76	150
25	1	10	90	**192 305 719**	0.255	125	90	56	19	90	160
32	1 ¼	10	154	**192 305 720**	0.380	135	100	64	19	102	180
40	1 ½	10	225	**192 305 721**	1.239	140	105	82	19	123	200
50	2	10	370	**192 305 722**	1.893	155	120	95	19	147	230
65	2 ½	10	575	**192 305 723**	3.140	185	140	106	19	188	290
80	3	10	905	**192 305 724**	4.140	200	150	120	19	205	310

Screen assemblies



DN65-100



DN 65-100

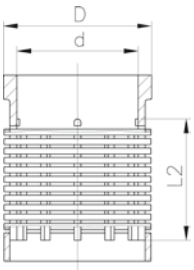
Screen assembly type 050 PVC-U
With solvent cement sockets BS/ASTM

Model:

- [2] Screen with 2 extensions and end plate, solvent cemented
- Modular extensions can be lengthened as required

d (mm)	Size (inch)	DN (mm)	kv-value (Δp=1 bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	lamina width (mm)
90	3	80	14790	**161 050 053**	0.930	110	312	345	90	103	3



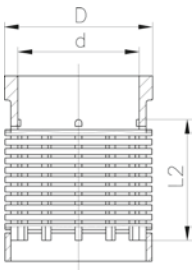


Screen type 050 PVC-U
With solvent cement sockets BS/ASTM

- For Screen Assemblies Type 050, PVC-U, DN 65-100

d (mm)	Size (inch)	DN (mm)	Code	Weight (kg)	D (mm)	L2 (mm)	lamina width (mm)
75	2 ½	65	**161 090 024**	0.447	110	90	3.0
90	3	80	**161 090 016**	0.300	110	90	2.5
110	4	100	**161 090 017**	0.440	125	135	2.5



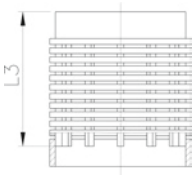


Screen type 050 PVC-U
With solvent cement sockets metric

- For Screen Assemblies Type 050, PVC-U, DN 65-100

d (mm)	Size (inch)	DN (mm)	Code	Weight (kg)	D (mm)	L2 (mm)
75	2 ½	65	**161 090 024**	0.447	110	90
90	3	80	**161 090 002**	0.303	110	90
110	4	100	**161 090 003**	0.469	125	135

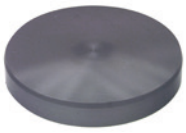




Extention type 050 PVC-U

- For Screen Assemblies Type 050, PVC-U, DN 65-100

DN-DN (mm)	Code	Weight (kg)	L3 (mm)	Inch (inch)	d-d (mm)
65 - 100	**161 090 019**	0.249	103	2 1/2 - 4	75 - 110



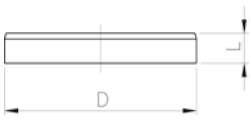


Plate type 050 PVC-U

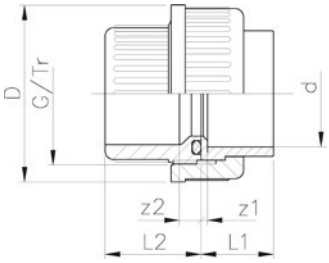
- For Screen Assemblies Type 050, PVC-U, DN 65-100

DN-DN (mm)	Code	Weight (kg)	D (mm)	L (mm)	Inch (inch)	d-d (mm)
65 - 100	**161 090 018**	0.155	100	16	2 1/2 - 4	75 - 110

PVC-U silicon free		Page
	Unions	444
	Seals	445
	Ball valves type 546 Pro	446
	3-Way ball valves type 543 Pro	448
	3-Way ball valves electric	453
	3-Way ball valves pneumatic	459
	Metering ball valves type 523	462
	Diaphragm valves	465
	Diaphragm valves pneumatic	472
	Butterfly valves type 567	479
	Lugstyle butterfly valves type 578	481
	Cone check valves	482
	Angle seat valves	486
	Strainers	488

Unions





Union PVC-U metric
Silicone free

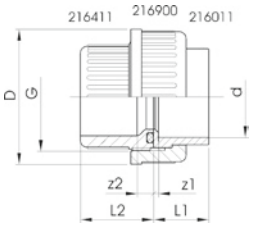
Model:

- Silicone free/paint-compatible
- Union End: solvent socket metric
- Union Bush: Solvent socket metric
- Gasket: with O-ring

d (mm)	Size (inch)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
10		16	**721 510 178**	0.022	**721 510 153**	0.020
12		16	**721 510 179**	0.022	**721 510 154**	0.019
16		16	**721 510 180**	0.026	**721 510 155**	0.031
20		16	**721 510 181**	0.042	**721 510 156**	0.040
25		16	**721 510 182**	0.067	**721 510 157**	0.066
32		16	**721 510 183**	0.100	**721 510 158**	0.090
40		16	**721 510 184**	0.180	**721 510 159**	0.175
50		16	**721 510 185**	0.206	**721 510 160**	0.215
63		16	**721 510 186**	0.357	**721 510 161**	0.380
75	2 ½	10	**721 510 187**	0.615	**721 510 162**	0.615
90		10	**721 510 188**	0.925	**721 510 163**	0.925
110		10	**721 510 189**	1.425	**721 510 164**	1.425

d (mm)	L2 (mm)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	G/Tr (inch)
10	22	3	10	31	15	5/8
12	22	3	10	31	15	5/8
16	24	3	10	35	17	3/4
20	26	3	10	43	19	1
25	29	3	10	51	22	1 1/4
32	33	3	10	58	25	1 1/2
40	39	3	12	72	29	2
50	46	3	14	83	34	2 1/4
63	58	3	18	100	41	2 3/4
75	62	3	18	135	47	Tr 108x5
90	69	5	18	158	56	Tr 128x5
110	72	5	11	188	66	Tr 154x6





Union PVC-U JIS
Oil-free

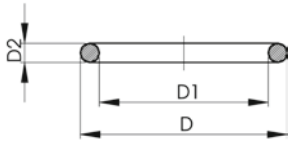
Model:

- Union End: Solvent cement socket JIS
- Union Bush: Solvent cement socket JIS
- Cleaned oil free
- Gasket: O-Ring EPDM code no. 748 410 007-011; FKM: 749 410 007-011

Size (inch)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FKM Code	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)	G/Tr (inch)
½	15	16	**721 515 130**	0.066	**721 515 180**	3	13	51	22	29.0	11/4
¾	20	16	**721 515 131**	0.056	**721 515 181**	3	10	51	22	29.0	11/4
1	25	16	**721 515 132**	0.082	**721 515 182**	3	10	58	25	33.0	11/2
1 ¼	32	16	**721 515 133**	0.159	**721 515 183**	3	12	72	29	39.0	2
1 ½	40	16	**721 515 134**	0.222	**721 515 184**	3	14	83	34	46.3	21/4
2	50	16	**721 515 135**	0.393	**721 515 185**	3	18	100	41	58.0	23/4

Seals





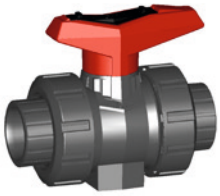
O-Ring gasket silicone free

Model:

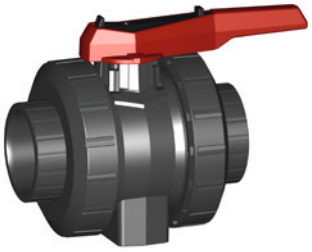
- Silicone free/paint-compatible
- Hardness approx. 65° Shore
- For flange adaptors, jointing face with O-ring groove
- Double bagged, 2 pcs in bag

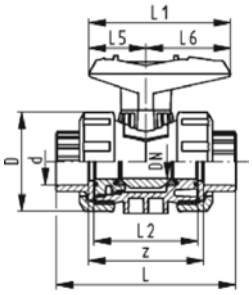
d (mm)	DN (mm)	EPDM Code	FKM Code	D (mm)	D1 (mm)	D2 (mm)
16	10	**748 413 000**	**749 413 000**	26	19	3.53
20	15	**748 413 001**	**749 413 001**	30	23	3.53
25	20	**748 413 007**	**749 413 007**	35	28	3.53
32	25	**748 413 002**	**749 413 002**	43	36	3.53
40	32	**748 413 003**	**749 413 003**	55	44	5.34
50	40	**748 413 012**	**749 413 012**	64	53	5.34
63	50	**748 413 013**	**749 413 013**	80	69	5.34
75	65	**748 413 014**	**749 413 014**	93	82	5.34
90	80	**748 413 015**	**749 413 015**	112	101	5.34
110	100	**748 413 016**	**749 413 016**	134	120	6.99
125	100	**748 413 017**	**749 413 017**	149	136	6.99
140	125	**748 413 018**	**749 413 018**	166	152	6.99
160	150	**748 413 019**	**749 413 019**	191	177	6.99
200	200	**748 413 163**	**749 413 163**	136	222	6.99
225	200	**748 413 022**	**749 413 022**	255	241	6.99
250	250	**748 413 182**	**749 413 182**	280	266	6.99
280	250	**748 413 173**	**749 413 173**	305	292	6.99
315	300	**748 413 174**	**749 413 174**	356	342	6.99

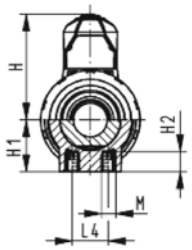
Ball valves type 546 Pro

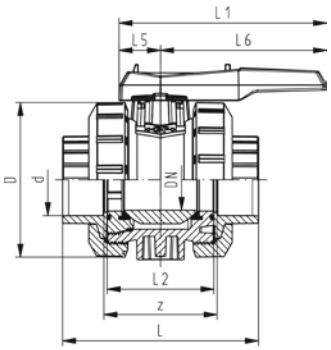


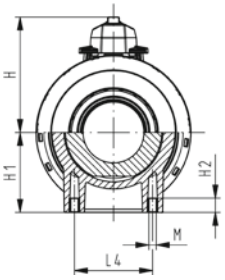
DN10/15 - 50











Ball valve type 546 Pro PVC-U SF
With mounting inserts
With solvent cement sockets metric

Model:

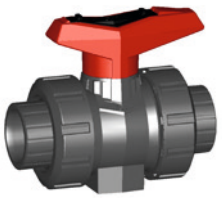
- Silicone free/paint-compatible
- For easy installation and removal
- Ball seal: PVDF
- Integrated stainless steel mounting inserts
- Valve end and union nut are **not compatible** with type 346 (DN10/15-50) and type 370 (DN65-100)

Option:

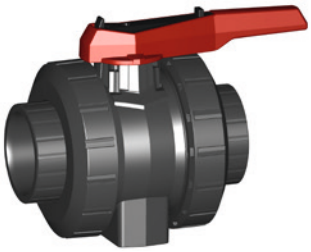
- Individual configuration of the valve
- Multifunctional module with integrated limit switches

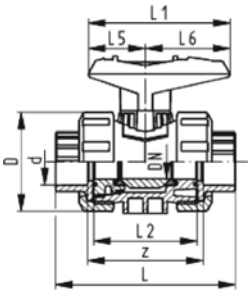
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	16	71	**800 000 601**	0.150	**800 000 611**	0.150
20	15	16	185	**800 000 602**	0.150	**800 000 612**	0.150
25	20	16	350	**800 000 603**	0.240	**800 000 613**	0.230
32	25	16	700	**800 000 604**	0.342	**800 000 614**	0.330
40	32	16	1000	**800 000 605**	0.600	**800 000 615**	0.600
50	40	16	1600	**800 000 606**	0.800	**800 000 616**	0.800
63	50	16	3100	**800 000 607**	1.460	**800 000 617**	1.460
75	65	16	5000	**800 000 608**	4.286	**800 000 618**	3.567
90	80	16	7000	**800 000 609**	7.400	**800 000 619**	5.401
110	100	16	11000	**800 000 610**	11.600	**800 000 620**	11.600

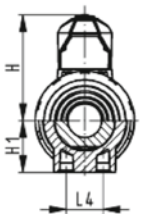
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	closest inch (inch)
16	50	57	27	12	92	77	56	25	32	45	M6	64	⅜
20	50	57	27	12	95	77	56	25	32	45	M6	64	½
25	58	67	30	12	110	97	65	25	39	58	M6	72	¾
32	68	73	36	12	123	97	71	25	39	58	M6	79	1
40	84	90	44	15	146	128	85	45	54	74	M8	94	1 ¼
50	97	97	51	15	157	128	89	45	54	74	M8	95	1 ½
63	124	116	64	15	183	152	101	45	66	87	M8	107	2
75	166	149	85	15	233	270	136	70	64	206	M8	144	2 ½
90	200	161	105	15	254	270	141	70	64	206	M8	151	3
110	238	178	123	22	301	320	164	120	64	256	M12	174	4

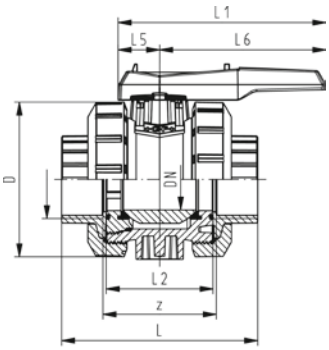


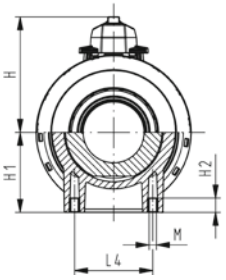
DN10/15 - 50











Ball valve type 546 PVC-U OF
With solvent cement sockets JIS

Model:

- Oil free
- For easy installation and removal
- Ball seat PTFE
- Without mounting inserts
- Valve end and union nut are **not compatible** with type 346 (DN10/15-50) and type 370 (DN65-100)

Option:

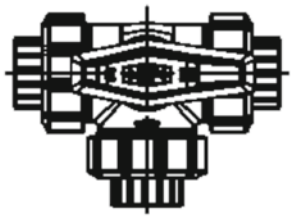
- Individual configuration of the valve
- Multifunctional module with integrated limit switches

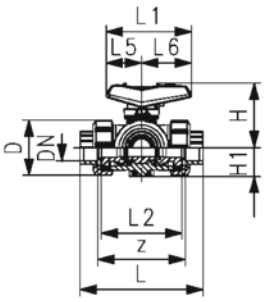
Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
½	15	16	185	**161 546 502**	0.149	**161 546 512**	0.150
¾	20	16	350	**161 546 503**	0.233	**161 546 513**	0.235
1	25	16	700	**161 546 504**	0.342	**161 546 514**	0.330
1 ¼	32	16	1000	**161 546 505**	0.610	**161 546 515**	0.610
1 ½	40	16	1600	**161 546 506**	0.846	**161 546 516**	0.815
2	50	16	3100	**161 546 507**	1.495	**161 546 517**	1.578
2 ½	65	16	5000	**161 546 508**	4.900	**161 546 518**	3.559
3	80	16	7000	**161 546 509**	7.400	**161 546 519**	7.400
4	100	16	11000	**161 546 510**	11.500	**161 546 520**	11.500

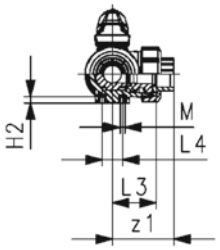
Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)
½	50	57	27	95	77	56	25	32	45	64
¾	58	67	30	110	97	65	25	39	58	72
1	68	73	36	123	97	71	25	39	58	79
1 ¼	84	90	44	146	128	85	45	54	74	94
1 ½	97	97	51	157	128	89	45	54	74	95
2	124	116	64	183	152	101	45	66	87	107
2 ½	166	149	85	233	270	136	70	64	206	144
3	200	161	105	254	270	141	70	64	206	151
4	238	178	123	301	320	164	120	64	256	174

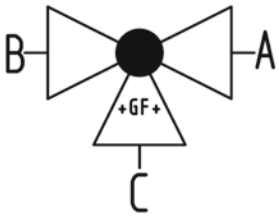
3-Way ball valves type 543 Pro













3-Way ball valve type 543 Pro PVC-U silicone free
Horizontal/L-port
With solvent cement sockets metric

Model:

- Silicone free/paint-compatible
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

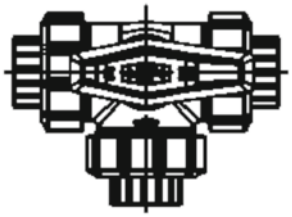
Option:

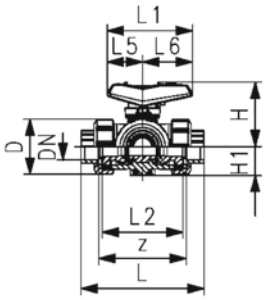
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

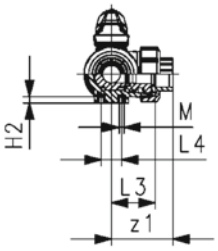
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	50	**161 543 141**	0.245	**161 543 151**	0.245
20	15	10	75	**161 543 142**	0.251	**161 543 152**	0.251
25	20	10	150	**161 543 143**	0.343	**161 543 153**	0.361
32	25	10	280	**161 543 144**	0.524	**161 543 154**	0.551
40	32	10	480	**161 543 145**	0.938	**161 543 155**	0.938
50	40	10	620	**161 543 146**	1.390	**161 543 156**	1.390
63	50	10	1230	**161 543 147**	2.705	**161 543 157**	2.705

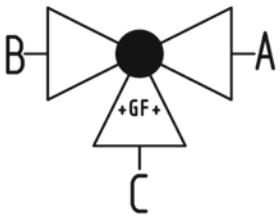
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	109	82	73	36	25	35	47	6	81	40	⅜
20	50	61	28	8	112	82	73	36	25	35	47	6	81	40	½
25	58	74	32	8	131	106	86	43	25	44	62	6	94	47	¾
32	68	80	36	8	151	106	99	50	25	44	62	6	107	54	1
40	84	95	45	9	181	131	120	60	45	57	74	8	130	65	1 ¼
50	97	102	51	9	205	131	137	69	45	57	74	8	143	72	1 ½
63	124	117	65	9	261	152	179	89	45	66	86	8	185	92	2

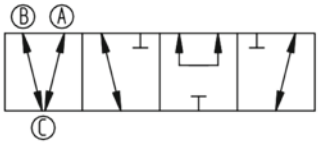












3-Way ball valve type 543 Pro PVC-U silicone free
Horizontal/T-port
With solvent cement sockets metric

Model:

- Silicone free/paint-compatible
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PVDF
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	140	**161 543 341**	0.244	**161 543 351**	0.244
20	15	10	200	**161 543 342**	0.232	**161 543 352**	0.250
25	20	10	470	**161 543 343**	0.339	**161 543 353**	0.359
32	25	10	793	**161 543 344**	0.544	**161 543 354**	0.544
40	32	10	1290	**161 543 345**	0.891	**161 543 355**	0.927
50	40	10	1910	**161 543 346**	1.369	**161 543 356**	1.369
63	50	10	3100	**161 543 347**	2.660	**161 543 357**	2.660

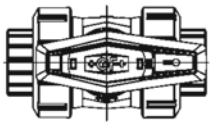
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	61	28	8	109	82	73	36	25	35	47	6	81	40	⅜
20	50	61	28	8	112	82	73	36	25	35	47	6	81	40	½
25	58	74	32	8	131	103	86	43	25	44	62	6	94	47	¾
32	68	80	36	8	151	103	99	50	25	44	62	6	107	54	1
40	84	95	45	9	181	131	120	60	45	57	74	8	130	65	1 ¼
50	97	102	51	9	205	131	137	69	45	57	74	8	143	72	1 ½
63	124	117	65	9	261	152	179	89	45	66	86	8	185	92	2



3-Way ball valve type 543 Pro PVC-U silicone free
Vertical/L-port
With solvent cement sockets metric

Model:

- Silicone free/paint-compatible
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seat PVDF
- Vertical inlet solvent cement spigot metric
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

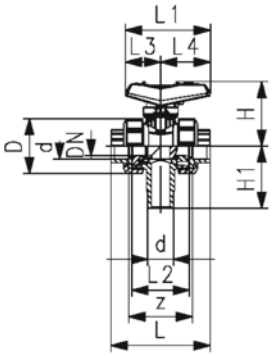


Mode of action:

- For interconnection of two inputs

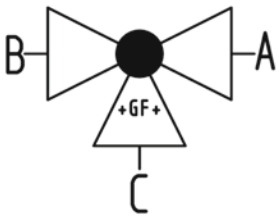
Option:

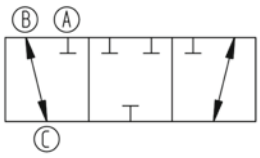
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



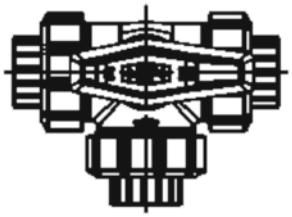
d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	49	**161 543 781**	0.156	**161 543 791**	0.162
20	15	10	77	**161 543 782**	0.166	**161 543 792**	0.166
25	20	10	146	**161 543 783**	0.255	**161 543 793**	0.255
32	25	10	260	**161 543 784**	0.372	**161 543 794**	0.372
40	32	10	437	**161 543 785**	0.622	**161 543 795**	0.622
50	40	10	667	**161 543 786**	0.886	**161 543 796**	0.886
63	50	10	1293	**161 543 787**	1.617	**161 543 797**	1.617

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	z (mm)	closest inch (inch)
16	50	61	62	92	82	56	32	45	64	⅜
20	50	61	62	95	82	56	32	45	64	½
25	58	74	72	111	106	66	39	58	74	¾
32	68	80	77	123	106	71	39	58	79	1
40	84	95	87	146	131	85	54	74	95	1 ¼
50	97	102	97	157	131	89	54	74	95	1 ½
63	124	117	112	183	152	101	66	87	107	2









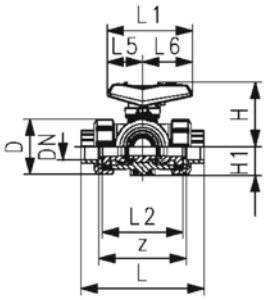
3-Way ball valve type 543 Pro PVC-U silicone free
Horizontal/L-port
With solvent cement sockets ASTM

Model:

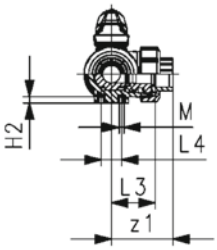
- Silicone free/paint-compatible
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

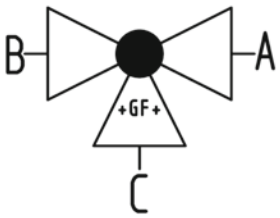
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
10	⅜	10	50	**161 543 181**	0.245	**161 543 191**	0.245
15	½	10	75	**161 543 182**	0.251	**161 543 192**	0.251
20	¾	10	150	**161 543 183**	0.361	**161 543 193**	0.361
25	1	10	280	**161 543 184**	0.551	**161 543 194**	0.551
32	1 ¼	10	480	**161 543 185**	0.938	**161 543 195**	0.938
40	1 ½	10	620	**161 543 186**	1.390	**161 543 196**	1.390
50	2	10	1230	**161 543 187**	2.705	**161 543 197**	2.705



D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	123	82	73	36	25	35	47	6	85	42
50	61	28	8	122	82	73	36	25	35	47	6	77	38
58	74	32	8	141	106	86	43	25	44	62	6	92	46
68	80	36	8	161	106	99	50	25	44	62	6	105	53
84	95	45	9	187	131	120	60	45	57	74	8	126	63
97	102	51	9	213	131	137	69	45	57	74	8	143	72
124	117	65	9	261	152	179	89	45	66	86	8	185	92









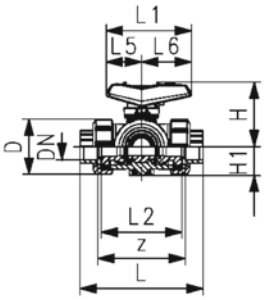
3-Way ball valve type 543 Pro PVC-U silicone free
Horizontal/T-port
With solvent cement sockets ASTM

Model:

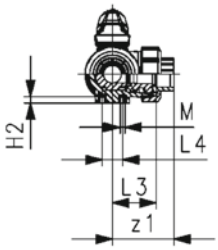
- Silicone free/paint-compatible
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Z-dimension, valve end and union nut are compatible with type 543 (1stGeneration)

Option:

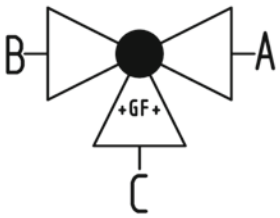
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

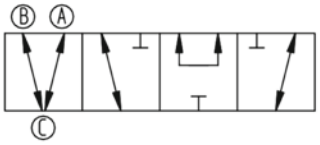


DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
10	⅜	10	140	**161 543 381**	0.244	**161 543 391**	0.244
15	½	10	200	**161 543 382**	0.250	**161 543 392**	0.250
20	¾	10	470	**161 543 383**	0.359	**161 543 393**	0.359
25	1	10	793	**161 543 384**	0.544	**161 543 394**	0.544
32	1 ¼	10	1290	**161 543 385**	0.927	**161 543 395**	0.927
40	1 ½	10	1910	**161 543 386**	1.369	**161 543 396**	1.369
50	2	10	3100	**161 543 387**	2.660	**161 543 397**	2.660

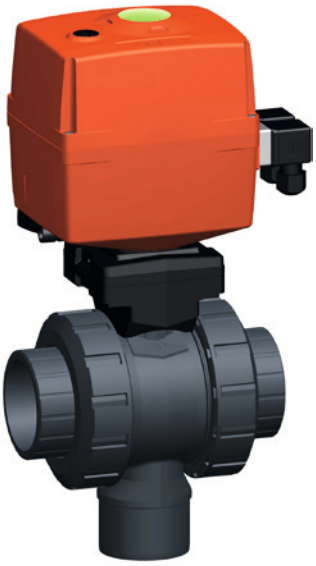


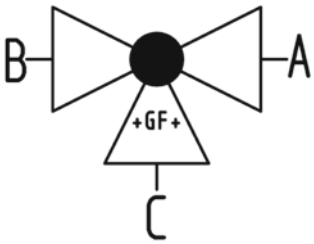
D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)
50	61	28	8	123	82	73	36	25	35	47	6	85	42
50	61	28	8	122	82	73	36	25	35	47	6	77	38
58	74	32	8	141	106	86	43	25	44	62	6	92	46
68	80	36	8	161	106	99	50	25	44	62	6	105	53
84	95	45	9	187	131	120	60	45	57	74	8	126	63
97	102	51	9	213	131	137	69	45	57	74	8	143	72
124	117	65	9	261	152	179	89	45	66	86	8	185	92

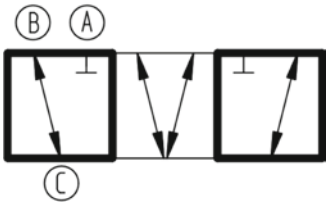




3-Way ball valves electric







3-Way ball valve type 543 PRO PVC-U OF
Vertical diverter ball 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

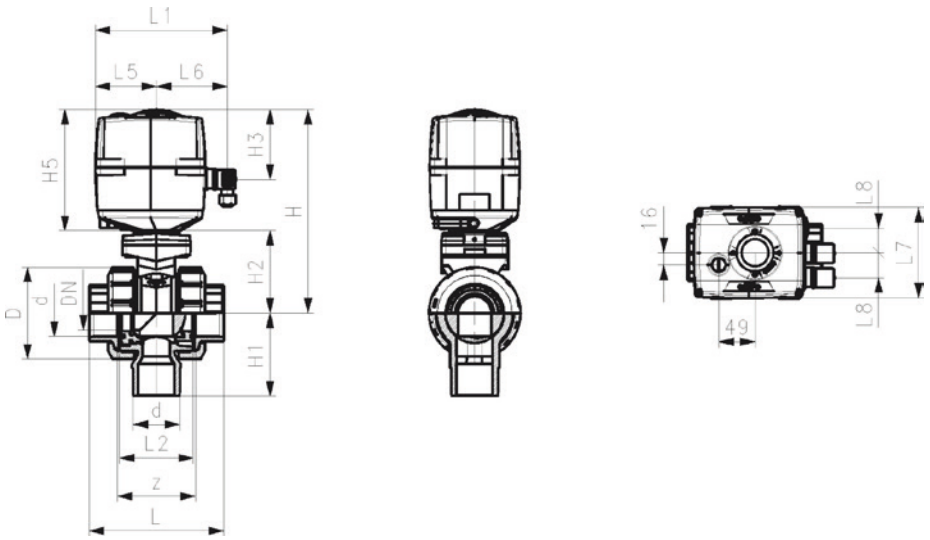
- Voltage 100-230V, 50-60Hz
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Factory set control range 90°<)
- Heating element, position feedback (Open/Close/ Middle)
- Integrated stainless steel mounting inserts

Option:

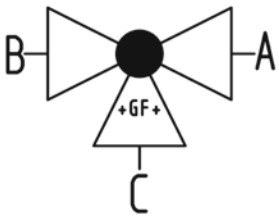
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EA	EPDM Code	Weight (kg)
20	15	½	10	77	EA25	**199 170 393**	3.550
25	20	¾	10	146	EA25	**199 170 394**	2.042
32	25	1	10	260	EA25	**199 170 395**	2.148
40	32	1 ¼	10	437	EA25	**199 170 396**	2.260
50	40	1 ½	10	667	EA25	**199 170 397**	2.543
63	50	2	10	1293	EA25	**199 170 398**	2.797

D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
50	231	62	64	94	167	95	180	56	97	83	122	33	64
58	240	72	73	94	167	111	180	66	97	83	122	33	74
68	240	77	73	94	167	123	180	71	97	83	122	33	79
84	251	87	84	94	167	146	180	85	97	83	122	33	95
97	251	97	84	94	167	157	180	89	97	83	122	33	95
124	273	112	106	94	167	183	180	101	97	83	122	33	107









3-Way ball valve type 185 PVC-U OF
Horizontal/L-port 100-230V
With manual emergency override
With solvent cement sockets JIS

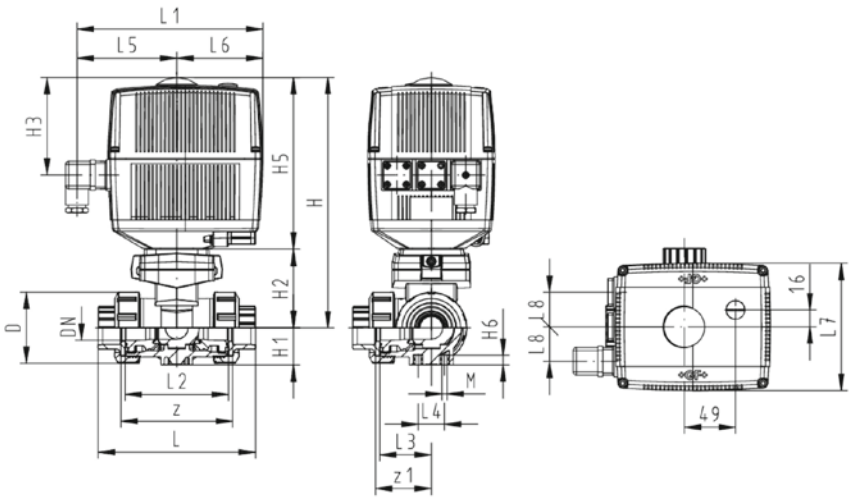
Model:

- Built on with electric actuator EA21
- Voltage 100-230V, 50-60Hz
- Control range 90°<)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Oil free

Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
½	15	10	75	**199 185 883**	2.128	**199 185 893**	2.128
¾	20	10	150	**199 185 884**	2.256	**199 185 894**	2.256
1	25	10	280	**199 185 885**	2.446	**199 185 895**	2.446
1 ¼	32	10	480	**199 185 886**	2.870	**199 185 896**	2.870
1 ½	40	10	620	**199 185 887**	3.717	**199 185 897**	3.322
2	50	10	1230	**199 185 888**	4.683	**199 185 898**	4.683

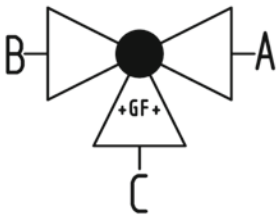
Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
½	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
¾	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
1	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
1 ¼	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
1 ½	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
2	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

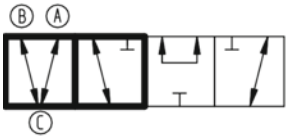
Size (inch)	L8 (mm)	M	z (mm)	z1 (mm)
½	33	6	81	40
¾	33	6	94	47
1	33	6	107	54
1 ¼	33	8	130	65
1 ½	33	8	143	72
2	33	8	185	92



+GF+







3-Way ball valve type 185 PVC-U OF
Horizontal/T-port 100-230V
With manual emergency override
With solvent cement sockets JIS

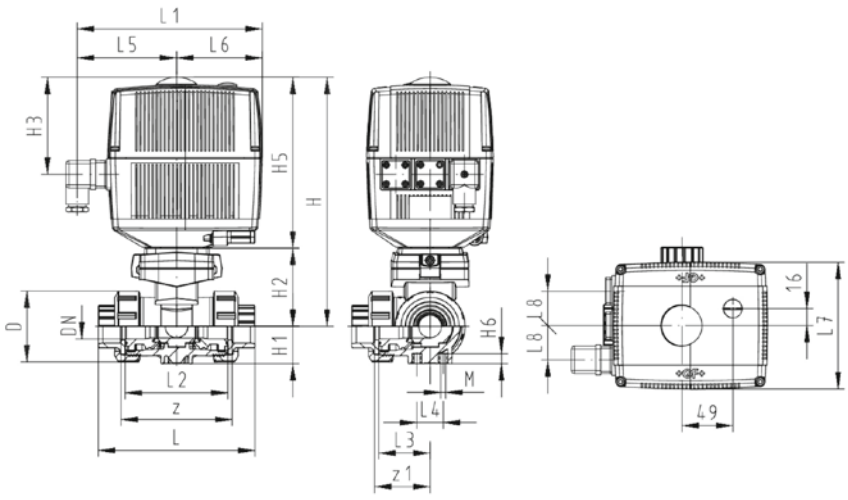
Model:

- Built on with electric actuator EA21
- Voltage 100-230V, 50-60Hz
- Control range 90°<)
- Basic position A-B-C opened, activated position B-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Oil free

Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
½	15	10	200	**199 185 903**	2.127	**199 185 913**	2.127
¾	20	10	470	**199 185 904**	2.254	**199 185 914**	2.254
1	25	10	793	**199 185 905**	2.439	**199 185 915**	2.439
1 ¼	32	10	1290	**199 185 906**	2.859	**199 185 916**	2.859
1 ½	40	10	1910	**199 185 907**	3.301	**199 185 917**	3.301
2	50	10	3100	**199 185 908**	4.638	**199 185 918**	4.638

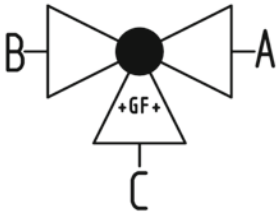
Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
½	50	231	28	64	94	167	8	112	180	73	36	25	97	83	122
¾	58	240	32	73	94	167	8	131	180	86	43	25	97	83	122
1	68	240	36	73	94	167	8	151	180	99	50	25	97	83	122
1 ¼	84	251	45	84	94	167	9	181	180	120	60	45	97	83	122
1 ½	97	251	51	84	94	167	9	205	180	137	69	45	97	83	122
2	124	273	65	106	94	167	9	261	180	179	89	45	97	83	122

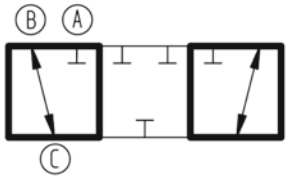
Size (inch)	L8 (mm)	M	z (mm)	z1 (mm)
½	33	6	81	40
¾	33	6	94	47
1	33	6	107	54
1 ¼	33	8	130	65
1 ½	33	8	143	72
2	33	8	185	92



+GF+







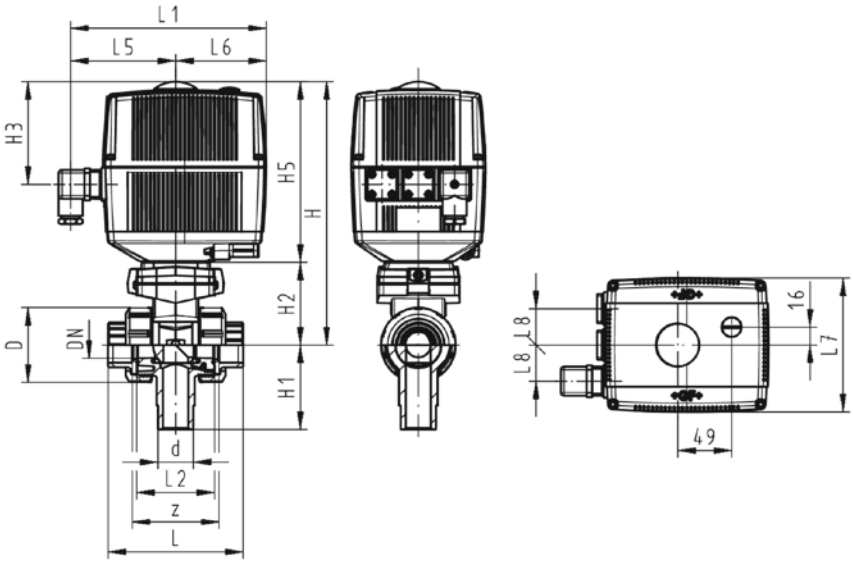
3-Way ball valve type 188 PVC-U OF
Vertical/L-port 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

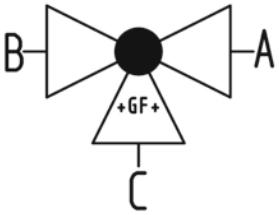
- Vertical inlet solvent cement spigot metric
- Built on with electric actuator EA21
- Voltage 100-230V, 50-60Hz
- Control range 180°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 10 s/180°<)
- Easy installation and removal using union on third outlet
- Oil free

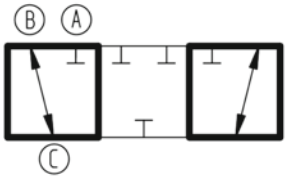
Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
½	15	10	77	**199 188 353**	3.212	**199 188 363**	3.595
¾	20	10	146	**199 188 354**	2.043	**199 188 364**	2.043
1	25	10	260	**199 188 355**	2.150	**199 188 365**	2.150
1 ¼	32	10	437	**199 188 356**	2.267	**199 188 366**	2.267
1 ½	40	10	667	**199 188 357**	2.554	**199 188 367**	2.554
2	50	10	1293	**199 188 358**	2.818	**199 188 368**	2.818

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
½	50	231	62	64	94	167	95	180	56	97	83	122	33	64
¾	58	240	72	73	94	167	111	180	66	97	83	122	33	74
1	68	240	77	73	94	167	123	180	71	97	83	122	33	79
1 ¼	84	251	87	84	94	167	146	180	85	97	83	122	33	95
1 ½	97	251	97	84	94	167	157	180	89	97	83	122	33	95
2	124	273	112	106	94	167	183	180	101	97	83	122	33	107









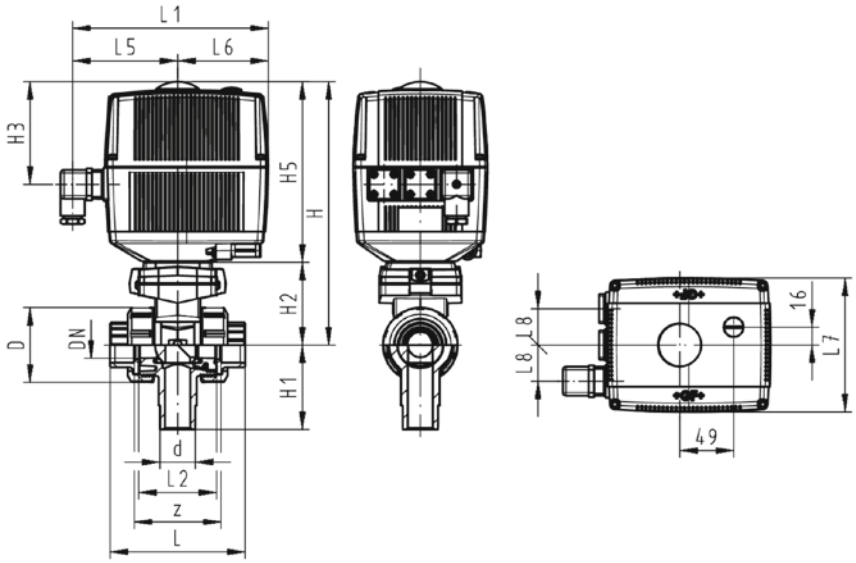
3-Way ball valve type 188 PVC-U OF
Vertical/L-port 24V
With manual emergency override
With solvent cement sockets JIS

Model:

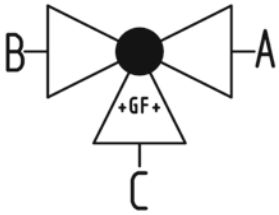
- Vertical inlet solvent cement spigot metric
- Built on with electric actuator EA21
- Voltage 24V AC/DC
- Control range 180°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 10 s/180°<)
- Easy installation and removal using union on third outlet
- Oil free

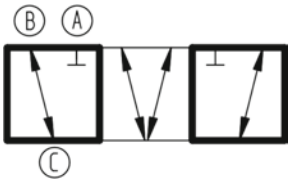
Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	FKM Code	Weight (kg)
½	15	10	77	**199 188 443**	3.550
¾	20	10	146	**199 188 444**	2.150
1	25	10	260	**199 188 445**	2.267
1 ¼	32	10	437	**199 188 446**	2.554
1 ½	40	10	667	**199 188 447**	2.818
2	50	10	1293	**199 188 448**	3.595

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
½	50	231	62	64	94	167	95	180	56	97	83	122	33	64
¾	58	240	72	73	94	167	111	180	66	97	83	122	33	74
1	68	240	77	73	94	167	123	180	71	97	83	122	33	79
1 ¼	84	251	87	84	94	167	146	180	85	97	83	122	33	95
1 ½	97	251	97	84	94	167	157	180	89	97	83	122	33	95
2	124	273	112	106	94	167	183	180	101	97	83	122	33	107









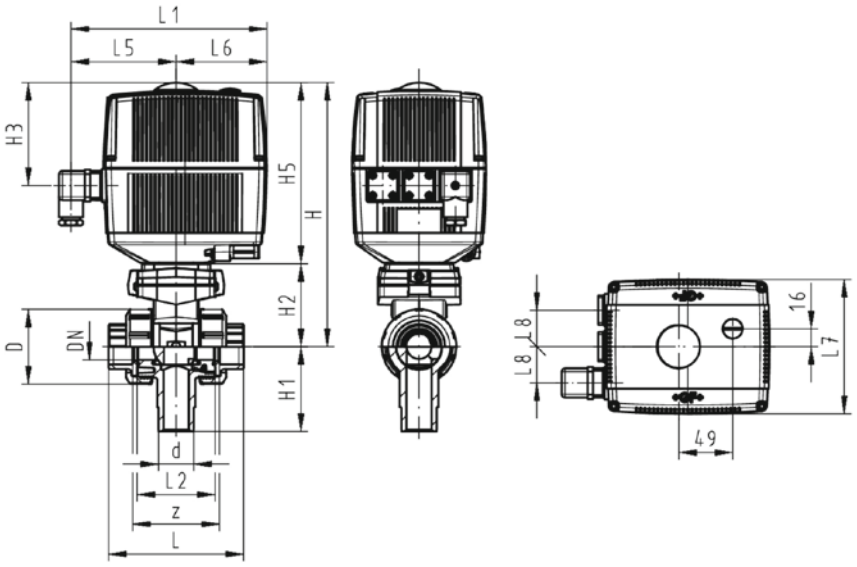
3-Way ball valve type 188 PVC-U OF
Vertical diverter ball 100-230V
With manual emergency override
With solvent cement sockets JIS

Model:

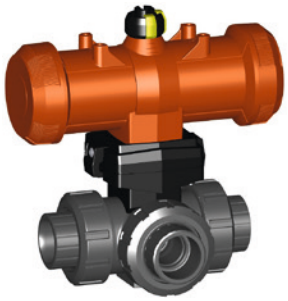
- Vertical inlet solvent cement spigot metric
- Built on with electric actuator EA21
- Voltage 100-230V, 50-60Hz
- Control range 180°<)
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Other positions possible by adjusting the limit switches
- Control time 10 s/180°<)
- Easy installation and removal using union on third outlet
- Oil free

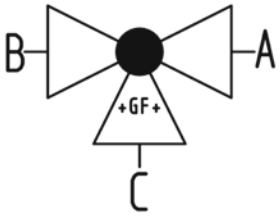
Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
½	15	10	77	**199 188 393**	3.550	**199 188 403**	3.550
¾	20	10	146	**199 188 394**	2.042	**199 188 404**	2.042
1	25	10	260	**199 188 395**	2.148	**199 188 405**	2.148
1 ¼	32	10	437	**199 188 396**	2.260	**199 188 406**	2.260
1 ½	40	10	667	**199 188 397**	2.543	**199 188 407**	2.543
2	50	10	1293	**199 188 398**	2.797	**199 188 408**	2.797

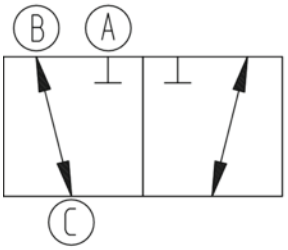
Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	z (mm)
½	50	231	62	64	94	167	95	180	56	97	83	122	33	64
¾	58	240	72	73	94	167	111	180	66	97	83	122	33	74
1	68	240	77	73	94	167	123	180	71	97	83	122	33	79
1 ¼	84	251	87	84	94	167	146	180	85	97	83	122	33	95
1 ½	97	251	97	84	94	167	157	180	89	97	83	122	33	95
2	124	273	112	106	94	167	183	180	101	97	83	122	33	107



3-Way ball valves pneumatic







3-Way ball valve type 285 PVC-U oil free
Horizontal/L-port
Without manual override
With solvent cement sockets JIS

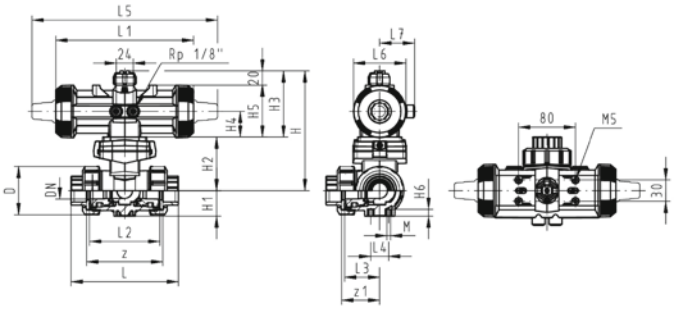
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Oil free

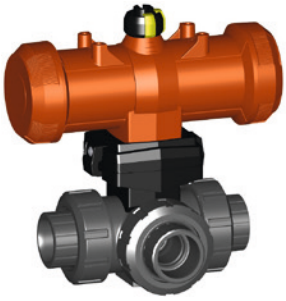
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	15	½	10	75	**199 285 883**	1.121	**199 285 893**	1.121
	20	¾	10	150	**199 285 884**	1.249	**199 285 894**	1.249
32	25	1	10	280	**199 285 885**	1.439	**199 285 895**	1.439
40	32	1 ¼	10	480	**199 285 886**	2.539	**199 285 896**	2.539
50	40	1 ½	10	620	**199 285 887**	2.991	**199 285 897**	2.991
63	50	2	10	1230	**199 285 888**	4.352	**199 285 898**	4.352

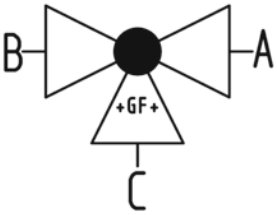
D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
50	159	28	62	97	40	77	8	112	194	73	36	25	261	76	48
58	168	32	71	97	40	77	8	131	194	86	43	25	261	76	48
68	168	36	71	97	40	77	8	151	194	99	50	25	261	76	48
84	203	45	84	119	51	99	9	181	224	120	60	45	305	95	59
97	203	51	84	119	51	99	9	205	224	137	69	45	305	95	59
124	225	65	106	119	51	99	9	261	224	179	89	45	305	95	59

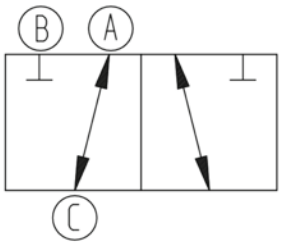
M	z (mm)	z1 (mm)
6	81	40
6	94	47
6	107	54
8	130	65
8	143	72
8	185	92



+GF+







3-Way ball valve type 285 PVC-U oil free
Horizontal/L-port DA (Double acting)
Without manual override
With solvent cement sockets JIS

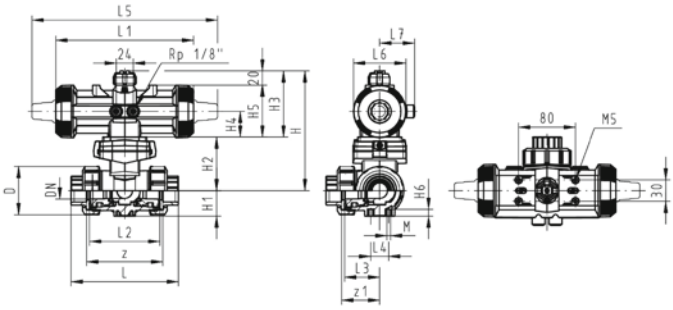
Model:

- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Oil free

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
	15	½	10	75	**199 285 663**	0.931	**199 285 673**	0.931
	20	¾	10	150	**199 285 664**	1.059	**199 285 674**	1.059
32	25	1	10	280	**199 285 665**	1.249	**199 285 675**	1.249
40	32	1 ¼	10	480	**199 285 666**	2.115	**199 285 676**	2.115
50	40	1 ½	10	620	**199 285 667**	2.567	**199 285 677**	2.567
63	50	2	10	1230	**199 285 668**	3.928	**199 285 678**	3.928

D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)
50	159	28	62	97	40	77	8	112	194	73	36	25	261	76	48
58	168	32	71	97	40	77	8	131	194	86	43	25	261	76	48
68	168	36	71	97	40	77	8	151	194	99	50	25	261	76	48
84	203	45	84	119	51	99	9	181	224	120	60	45	305	95	59
97	203	51	84	119	51	99	9	205	224	137	69	45	305	95	59
124	225	65	106	119	51	99	9	261	224	179	89	45	305	95	59

M	z (mm)	z1 (mm)
6	81	40
6	94	47
6	107	54
8	130	65
8	143	72
8	185	92

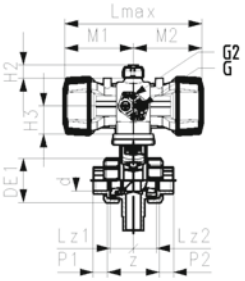




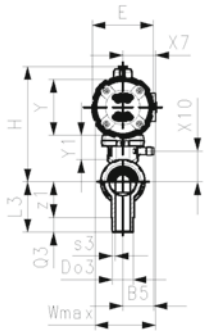
3-Way ball valve type 288 PVC-U oil free
Vertical diverter ball
Without manual override
With solvent cement sockets JIS

Model:

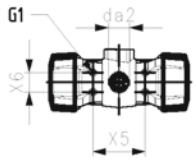
- Vertical inlet solvent cement spigot metric
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Basic position A-C opened, activated position B-C opened, see flow scheme
- Control time 90°<) 1-3 s
- Easy installation and removal using union on third outlet
- Oil free

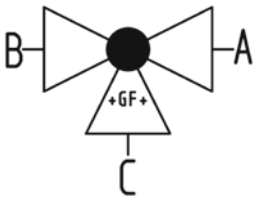


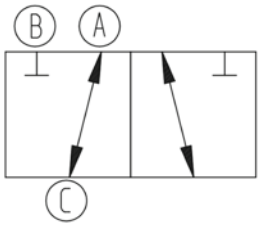
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	½	10	77	**199 288 143**	1.035	**199 288 153**	1.035
25	20	¾	10	146	**199 288 144**	1.141	**199 288 154**	1.141
32	25	1	10	260	**199 288 145**	1.253	**199 288 155**	1.253
40	32	1 ¼	10	437	**199 288 146**	2.212	**199 288 156**	2.212
50	40	1 ½	10	667	**199 288 147**	2.466	**199 288 157**	2.466
63	50	2	10	1293	**199 288 148**	3.219	**199 288 158**	3.219



D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	z (mm)
50	159	62	62	97	40	77	95	194	56	261	76	48	64
58	168	72	71	97	40	77	111	194	66	261	76	48	74
68	168	77	71	97	40	77	123	194	71	261	76	48	79
84	203	87	84	119	51	99	146	224	85	305	95	59	95
97	203	97	84	119	51	99	157	224	89	305	95	59	95
124	225	112	106	119	51	99	183	224	101	305	95	59	107







Metering ball valves type 523



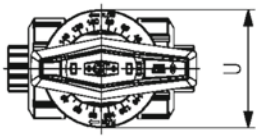
Metering ball valve type 523 Pro PVC-U silicone free
With solvent cement sockets metric

Model:

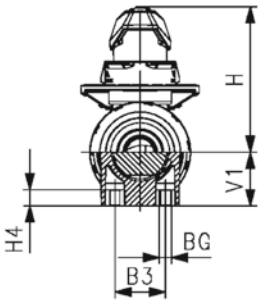
- Silicone free/paint-compatible
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PVDF
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

Option:

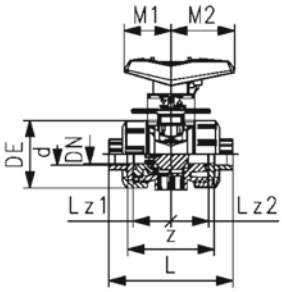
- Other materials on demand



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	11	**161 523 001**	0.170	**161 523 011**	0.170
20	15	10	20	**161 523 002**	0.170	**161 523 012**	0.170



d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)	z (mm)
16	35	47	28	28	92	27	72	99	50	M6	25	12	59	64
20	35	47	28	28	95	27	72	99	50	M6	25	12	59	64





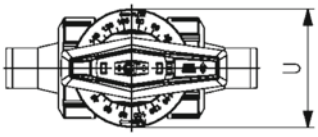
Metering ball valve type 523 Pro PVC-U silicone free
With solvent cement spigots metric

Model:

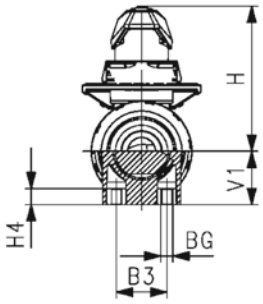
- Silicone free/paint-compatible
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PVDF
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

Option:

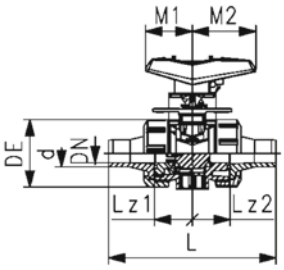
- Other materials on demand



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	11	**161 523 041**	0.170	**161 523 051**	0.170
20	15	10	20	**161 523 042**	0.170	**161 523 052**	0.170



d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)
16	35	47	28	28	114	27	72	99	50	M6	25	12	59
20	35	47	28	28	124	27	72	99	50	M6	25	12	59





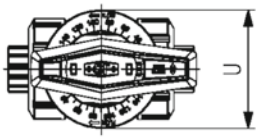
Metering ball valve type 523 Pro PVC-U oil free
With solvent cement sockets JIS

Model:

- Oil free
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seat PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts compatible to Type 523

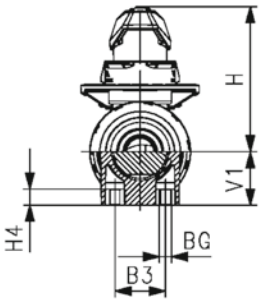
Option:

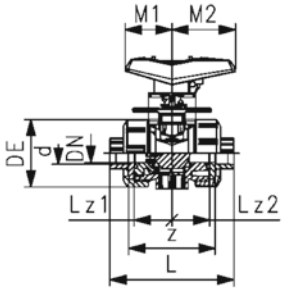
- Other materials on demand



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	EPDM Weight (kg)	FKM Code	FKM Weight (kg)
20	15	10	20	**161 523 582**	0.170	**161 523 592**	0.170

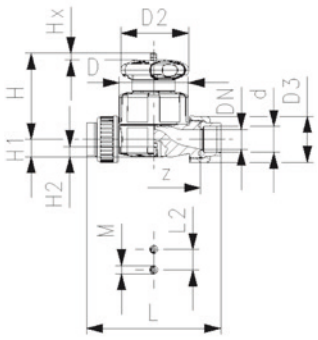
d (mm)	M1 (mm)	M2 (mm)	Lz1 (mm)	Lz2 (mm)	L (mm)	V1 (mm)	H (mm)	Hmax (mm)	DE (mm)	BG	B3 (mm)	H4 (mm)	U (mm)	z (mm)
20	35	47	28	28	95	27	72	99	50	M6	25	12	59	64





Diaphragm valves





Diaphragm valve type 514 PVC-U OF
With solvent cement sockets metric

Model:

- Oilfree
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

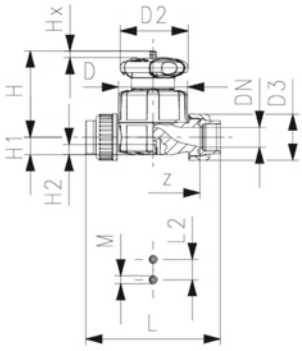
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	PTFE/ EPDM* Code	Weight (kg)
16	10	⅜	10	125	**161 514 071**	0.335
20	15	½	10	125	**161 514 072**	0.339
25	20	¾	10	271	**161 514 073**	0.506
32	25	1	10	481	**161 514 074**	0.748
40	32	1 ¼	10	759	**161 514 075**	1.105
50	40	1 ½	10	1263	**161 514 076**	1.679
63	50	2	10	1728	**161 514 077**	2.548

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
16	65	65	43	73	14	12	124	25	M6	96	7	⅜
20	65	65	43	73	14	12	128	25	M6	96	7	½
25	80	65	51	81	18	12	152	25	M6	114	10	¾
32	88	87	58	107	22	12	166	25	M6	122	13	1
40	101	87	72	115	26	15	192	45	M8	140	15	1 ¼
50	117	135	83	148	32	15	222	45	M8	160	19	1 ½
63	144	135	100	166	39	15	266	45	M8	190	25	2





Diaphragm valve type 514 PVC-U SF
With solvent cement sockets BS

Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

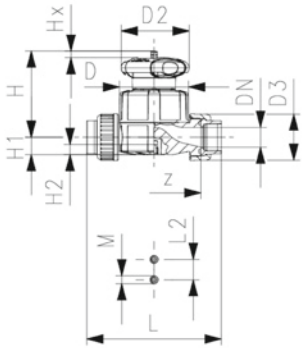
Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10	125	**161 514 522**	0.396	**161 514 572**	0.406
¾	20	10	271	**161 514 523**	0.524	**161 514 573**	0.536
1	25	10	481	**161 514 524**	1.159	**161 514 574**	1.179
1 ¼	32	10	759	**161 514 525**	1.419	**161 514 575**	1.439
1 ½	40	10	1263	**161 514 526**	2.528	**161 514 576**	2.558
2	50	10	1728	**161 514 527**	3.409	**161 514 577**	3.437

Size (inch)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
½	65	65	43	73	14	12	141	25	M6	96	7
¾	80	65	51	81	18	12	165	25	M6	114	10
1	88	87	58	107	22	12	179	25	M6	122	13
1 ¼	101	87	72	115	26	15	204	45	M8	140	15
1 ½	117	135	83	148	32	15	230	45	M8	160	19
2	144	135	100	166	39	15	268	45	M8	190	25





Diaphragm valve type 514 PVC-U SF
With threaded sockets Rp

Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

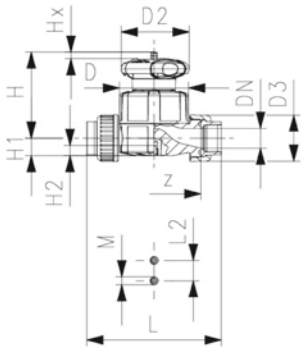
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

* O-Ring material: FKM

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	Rp	½	10	125	**161 514 422**	0.400	**161 514 472**	0.410
25	20	Rp	¾	10	271	**161 514 423**	0.523	**161 514 473**	0.534
50	40	Rp	1 ½	10	1263	**161 514 426**	2.528	**161 514 476**	2.558
40	32	Rp	1 ¼	10	759	**161 514 425**	1.429	**161 514 475**	1.449
32	25	Rp	1	10	481	**161 514 424**	1.163	**161 514 474**	1.183
63	50	Rp	2	10	1728	**161 514 427**	3.449	**161 514 477**	3.477

D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
65	65	43	73	14	12	128	25	M6	96	7
80	65	51	81	18	12	152	25	M6	114	10
117	135	83	148	32	15	222	45	M8	160	19
101	87	72	115	26	15	192	45	M8	140	15
88	87	58	107	22	12	166	25	M6	122	13
144	135	100	166	39	15	266	45	M8	190	25





Diaphragm valve type 514 PVC-U OF
With solvent cement sockets JIS

Model:

- Oil free
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

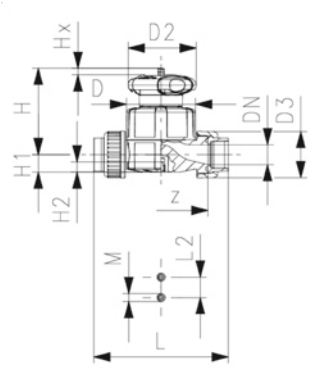
Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

* O-Ring material: FKM

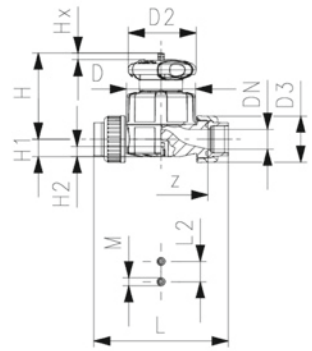
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	**161 514 822**	0.434	**161 514 872**	0.548
25	20	¾	10	271	**161 514 823**	0.527	**161 514 873**	0.538
32	25	1	10	481	**161 514 824**	0.678	**161 514 874**	1.183
40	32	1 ¼	10	759	**161 514 825**	1.437	**161 514 875**	1.457
50	40	1 ½	10	1263	**161 514 826**	2.558	**161 514 876**	2.588
63	50	2	10	1728	**161 514 827**	3.425	**161 514 877**	2.854

table continued on the next page



D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
80	65	51	81	18	12	152	25	M6	120	10
80	65	51	81	18	12	152	25	M6	114	10
88	87	58	107	22	12	166	25	M6	122	13
101	87	72	115	26	15	192	45	M8	140	15
117	135	83	148	32	15	222	45	M8	160	19
144	135	100	166	39	15	266	45	M8	190	25





Diaphragm valve type 514 PVC-U OF
With threaded sockets Rc

Model:

- Oil free
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

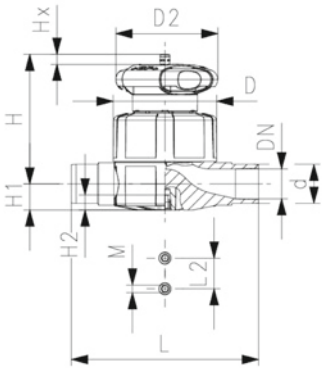
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

* O-Ring material: FKM

d (mm)	DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	Rc	½	10	125	**161 514 922**	0.537	**161 514 972**	0.548
25	20	Rc	¾	10	271	**161 514 923**	0.529	**161 514 973**	0.540
32	25	Rc	1	10	481	**161 514 924**	1.165	**161 514 974**	1.185
40	32	Rc	1 ¼	10	759	**161 514 925**	1.433	**161 514 975**	1.453
50	40	Rc	1 ½	10	1263	**161 514 926**	2.556	**161 514 976**	2.586
63	50	Rc	2	10	1728	**161 514 927**	3.497	**161 514 977**	3.525

D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
80	65	51	81	18	12	152	25	M6	120	110
80	65	51	81	18	12	152	25	M6	114	10
88	87	58	107	22	12	166	25	M6	122	13
101	87	72	115	26	15	192	45	M8	140	15
117	135	83	148	32	15	222	45	M8	160	19
144	135	100	166	39	15	266	45	M8	190	25





Diaphragm valve type 515 PVC-U SF
With solvent cement spigots metric

Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

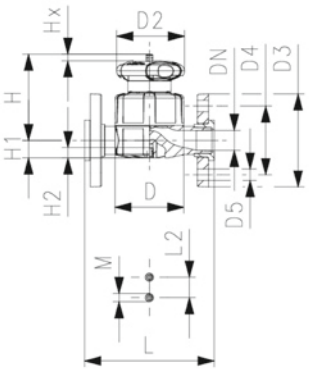
- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	**161 515 022**	0.238	**161 515 072**	0.345
25	20	¾	10	271	**161 515 023**	0.445	**161 515 073**	0.456
32	25	1	10	481	**161 515 024**	1.032	**161 515 074**	1.052
40	32	1 ¼	10	759	**161 515 025**	1.237	**161 515 075**	1.257
50	40	1 ½	10	1263	**161 515 026**	2.262	**161 515 076**	2.292
63	50	2	10	1728	**161 515 027**	2.057	**161 515 077**	2.991

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	7	½
25	80	65	81	18	12	144	25	M6	10	¾
32	88	87	107	22	12	154	25	M6	13	1
40	101	87	115	26	15	174	45	M8	15	1 ¼
50	117	135	148	32	15	194	45	M8	19	1 ½
63	144	135	166	39	15	224	45	M8	25	2





Diaphragm valve type 517 PVC-U SF
With backing flanges PVC-U metric

Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Flat sealing faces
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

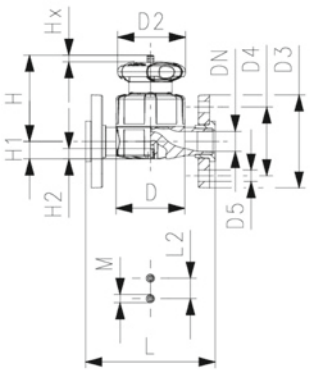
Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	**161 517 022**	0.493	**161 517 072**	0.503
25	20	¾	10	271	**161 517 023**	0.661	**161 517 073**	0.672
32	25	1	10	481	**161 517 024**	1.344	**161 517 074**	1.364
40	32	1 ¼	10	759	**161 517 025**	1.233	**161 517 075**	1.372
50	40	1 ½	10	1263	**161 517 026**	2.868	**161 517 076**	2.898
63	50	2	10	1728	**161 517 027**	2.904	**161 517 077**	3.817

table continued on the next page



d (mm)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	65	65	95	65	14	73	14	12	130	25	M6	7	½
25	80	65	105	75	14	81	18	12	150	25	M6	10	¾
32	88	87	115	85	14	107	22	12	160	25	M6	13	1
40	101	87	140	100	18	115	26	15	180	45	M8	15	1 ¼
50	117	135	150	110	18	148	32	15	200	45	M8	19	1 ½
63	144	135	165	125	18	166	39	15	230	45	M8	25	2



Diaphragm valve type 517 PVC-U OF
With fixed flanges PVC-U JIS

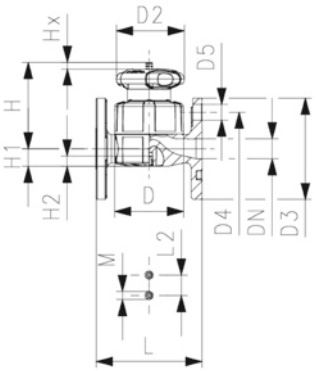
Model:

- Oil free
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Self adjusting multifunctional module with integrated limit switches

* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	125	**161 517 922**	0.528	**161 517 972**	0.538
25	20	¾	10	271	**161 517 923**	0.626	**161 517 973**	0.637
32	25	1	10	481	**161 517 924**	1.334	**161 517 974**	1.354
40	32	1 ¼	10	759	**161 517 925**	1.745	**161 517 975**	1.765
50	40	1 ½	10	1263	**161 517 926**	2.814	**161 517 976**	2.844
63	50	2	10	1728	**161 517 927**	3.652	**161 517 977**	3.680

D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
65	65	95	70	15	73	14	12	110	25	M6	7
80	65	100	75	15	81	18	12	120	25	M6	10
88	87	125	90	19	107	22	12	130	25	M6	13
101	87	135	100	19	115	26	15	180	45	M8	15
117	135	140	105	19	148	32	15	180	45	M8	19
144	135	155	120	19	166	39	15	210	45	M8	25





Diaphragm valve type 317 PVC-U SF
With flanges PVC-U metric

Model:

- Silicone free/paint-compatible
- Flat sealing faces
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

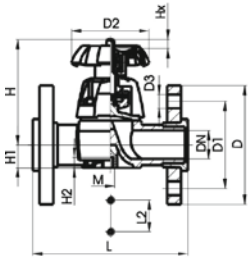
Option:

- Handwheel lockable DN65 (basic version not lockable)

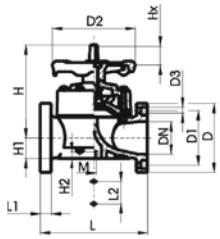
*** DN80, DN100 and DN150 fixed flanges metric and inch ANSI B16.5**

	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	PTFE with EPDM supp. diaphragm Code	Weight (kg)
	75	65	2 ½	10	992	**161 317 723**	**161 317 738**	4.420
*	90	80	3	10	1700	**161 317 424**	**161 317 439**	9.600
*	110	100	4	6	2700	**161 317 425**	**161 317 440**	13.360
*	160	150	6	6	6033	**161 317 427**	**161 317 442**	29.250

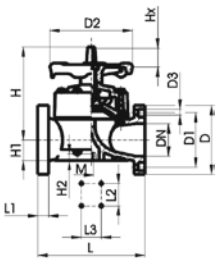
	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
	75	185	145	152	18	201	46	15	290		70		M8	30	4
*	90	200	160	270	18	265	57	23	310	35	120		M12	40	8
*	110	225	180	270	18	304	69	23	350	35	120		M12	50	8
*	160	285	240	400	23	437	108	23	480	26	100	200	M12	70	8



DN 15-65



DN 80-100



DN 150

Diaphragm valves pneumatic

DIASTAR Six



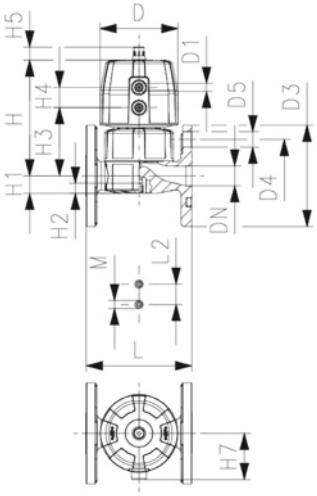
Diaphragm valve DIASTAR Six PVC-U SF
FC (Fail safe to close)
With fixed flanges PVC-U JIS

Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve

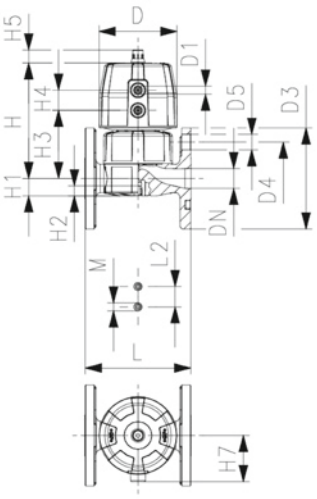


Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
¾	20	6	271	**161 617 923**	1.145
1	25	6	481	**161 617 924**	1.448
1 ¼	32	6	759	**161 617 925**	2.384
1 ½	40	6	960	**161 617 926**	2.964
2	50	6	1181	**161 617 927**	4.029

Size (inch)	D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
¾	96	⅛	100	75	15	132	18	12	73	57	120	25	M6	10
1	96	⅛	125	90	15	143	22	12	84	57	130	25	M6	13
1 ¼	120	⅛	135	100	19	173	26	15	99	69	180	45	M6	14
1 ½	120	⅛	140	105	19	193	32	15	119	69	180	45	M6	16
2	120	⅛	155	120	19	205	39	15	132	69	210	45	M6	16

DIASTAR Ten





Diaphragm valve DIASTAR Ten PVC-U SF FC (Fail safe to close) With fixed flanges PVC-U JIS

Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 627 922**	0.722	**161 627 972**	0.732
25	20	¾	10	10*	271	**161 627 923**	1.220	**161 627 973**	1.231
32	25	1	10	10*	481	**161 627 924**	1.520	**161 627 974**	1.540
40	32	1 ¼	10	10*	759	**161 627 925**	2.534	**161 627 975**	2.554
50	40	1 ½	10	10*	1263	**161 627 926**	4.102	**161 627 976**	4.132
63	50	2	10	6*	1728	**161 627 927**	4.950	**161 627 977**	4.978

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	70	15	101	14	12	60	24	16	43	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅛	125	90	19	143	22	12	84	25	16	57	130	25	M6
120	⅛	135	100	19	173	26	15	99	26	26	69	180	45	M8
150	¼	140	105	19	193	32	15	119	36	26	88	180	45	M8
150	¼	155	120	19	205	39	15	132	36	26	88	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23



Diaphragm valve DIASTAR Ten PVC-U SF FO (Fail safe to open) With fixed flanges PVC-U JIS

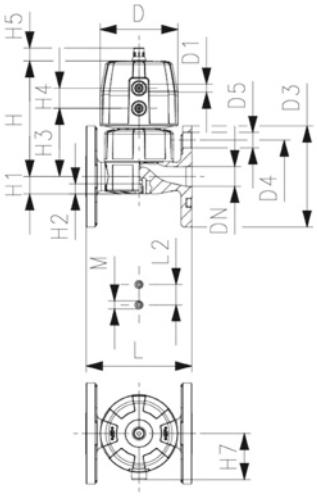
Model:

- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **one side**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	10*	125	**161 647 922**	0.672	**161 647 972**	0.682
25	20	¾	10	10*	271	**161 647 923**	1.046	**161 647 973**	1.057
32	25	1	10	10*	481	**161 647 924**	1.340	**161 647 974**	1.360
40	32	1 ¼	10	10*	759	**161 647 925**	2.174	**161 647 975**	2.194
50	40	1 ½	10	10*	1263	**161 647 926**	4.012	**161 647 976**	4.042
63	50	2	10	10*	1728	**161 647 927**	4.860	**161 647 977**	4.888

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	70	15	101	14	12	60	24	16	43	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅛	125	90	19	143	22	12	84	25	16	57	130	25	M6
120	⅛	135	100	19	173	26	15	99	26	26	69	180	45	M8
150	¼	140	105	19	214	32	15	119	36	26	88	180	45	M8
150	¼	155	120	19	226	39	15	132	36	26	88	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23



Diaphragm valve DIASTAR Ten PVC-U SF
DA (Double acting)
With fixed flanges PVC-U JIS

Model:

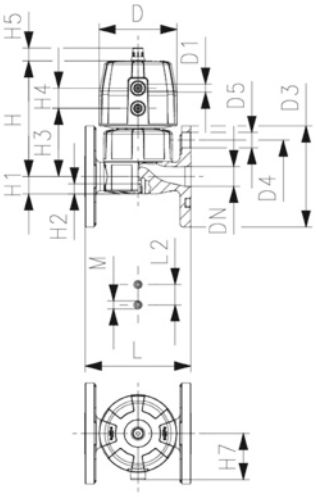
- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE

Working Pressure: **one side**



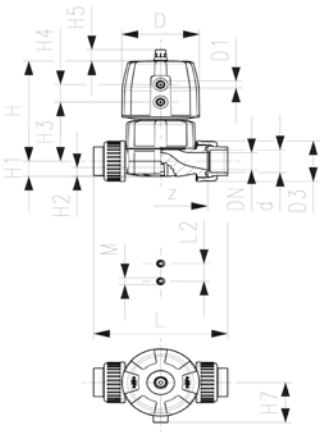
d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
20	15	½	10	10*	125	**161 657 922**	0.656
25	20	¾	10	10*	271	**161 657 923**	1.010
32	25	1	10	10*	481	**161 657 924**	1.310
40	32	1 ¼	10	10*	759	**161 657 925**	2.114
50	40	1 ½	10	10*	1263	**161 657 926**	3.262
63	50	2	10	10*	1728	**161 657 927**	4.110

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
68	⅛	95	70	15	101	14	12	60	24	16	43	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
96	⅛	125	90	19	143	22	12	84	25	16	57	130	25	M6
120	⅛	135	100	19	173	26	15	99	26	26	69	180	45	M8
150	¼	140	105	19	214	32	15	119	36	26	88	180	45	M8
150	¼	155	120	19	226	39	15	132	36	26	88	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23

DIASTAR TenPlus





Diaphragm valve DIASTAR TenPlus PVC-U OF
FC (Fail safe to close) low pressure
Unions with solvent cement sockets JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Oil free
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	8*	125	**161 684 822**	1.131	**161 684 872**	1.142
25	20	¾	10	8*	271	**161 684 823**	1.121	**161 684 873**	1.132
32	25	1	10	8*	481	**161 684 824**	2.046	**161 684 874**	1.963
40	32	1 ¼	10	8*	759	**161 684 825**	3.296	**161 684 875**	3.316
50	40	1 ½	10	8*	1263	**161 684 826**	5.254	**161 684 876**	5.284
63	50	2	10	6*	1728	**161 684 827**	6.130	**161 684 877**	6.158

D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
96	⅛	132	18	12	73	25	16	57	152	25	M6	120	10
96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
120	⅛	167	22	12	93	26	26	69	166	25	M6	122	13
150	¼	196	26	15	101	36	26	88	192	45	M8	140	15
180	¼	239	32	15	124	37	26	103	222	45	M8	160	19
180	¼	251	39	15	137	37	26	103	266	45	M8	190	23



Diaphragm valve DIASTAR TenPlus PVC-U OF
FC (Fail safe to close) low pressure
Unions with threaded sockets Rc

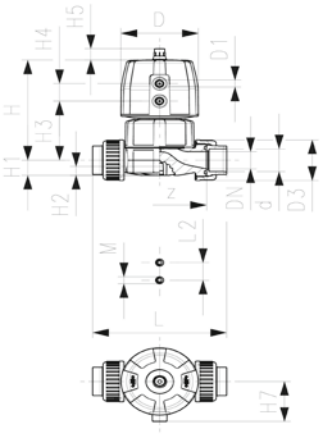
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- For easy installation and removal
- Oil free
- Short overall length

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available
- PN16 available as a configuration

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM



Rc (inch)	DN (mm)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
½	15	10/8*	125	**161 684 922**	1.131	**161 684 972**	1.142
¾	20	10/8*	271	**161 684 923**	1.123	**161 684 973**	1.134
1	25	10/8*	481	**161 684 924**	1.945	**161 684 974**	1.965
1 ¼	32	10/8*	759	**161 684 925**	3.292	**161 684 975**	3.312
1 ½	40	10/8*	1263	**161 684 926**	5.252	**161 684 976**	5.282
2	50	10/6*	1728	**161 684 927**	6.202	**161 684 977**	6.230

Rc (inch)	D (mm)	D1_G (inch)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
½	96	⅛	132	18	12	73	25	16	57	152	25	M6	120	10
¾	96	⅛	132	18	12	73	25	16	57	152	25	M6	114	10
1	120	⅛	167	22	12	93	26	26	69	166	25	M6	122	13
1 ¼	150	¼	196	26	15	101	36	26	88	192	45	M8	140	15
1 ½	180	¼	239	32	15	124	37	26	103	222	45	M8	160	19
2	180	¼	251	39	15	137	37	26	103	266	45	M8	190	23



Diaphragm valve DIASTAR TenPlus PVC-U OF FC (Fail safe to close) low pressure With fixed flanges PVC-U JIS

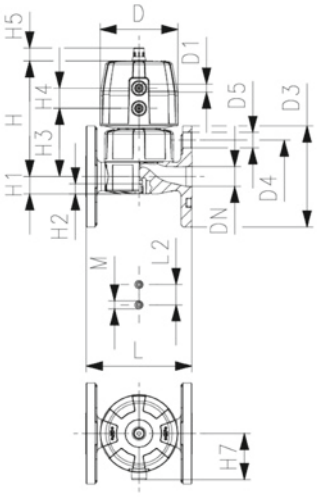
Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals
- Joining faces flat/serrated
- Oil free
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve
- Comprehensive range of accessories available

* PN: PTFE
Working Pressure: **both sides**
* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	PN* (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	PTFE/ EPDM* Code	Weight (kg)
20	15	½	10	8*	125	**161 687 922**	1.122	**161 687 972**	1.132
25	20	¾	10	8*	271	**161 687 923**	1.220	**161 687 973**	1.231
32	25	1	10	8*	481	**161 687 924**	2.114	**161 687 974**	2.134
40	32	1 ¼	10	8*	759	**161 687 925**	3.604	**161 687 975**	3.624
50	40	1 ½	10	8*	1263	**161 687 926**	5.510	**161 687 976**	5.540
63	50	2	10	6*	1728	**161 687 927**	6.357	**161 687 977**	6.385

D (mm)	D1_G (inch)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H7 (mm)	L (mm)	L2 (mm)	M
96	⅛	95	70	15	127	14	12	68	25	16	57	110	25	M6
96	⅛	100	75	15	132	18	12	73	25	16	57	120	25	M6
120	⅛	125	90	19	167	22	12	93	26	26	69	130	25	M6
150	¼	135	100	19	196	26	15	101	36	26	88	180	45	M8
180	¼	140	105	19	239	32	15	124	37	26	103	180	45	M8
180	¼	155	120	19	251	39	15	137	37	26	103	210	45	M8

Lift = Hx (mm)
7
10
13
15
19
23

Butterfly valves type 567



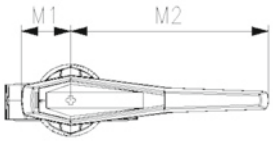
Wafer-style intermediate installation butterfly valve type 567 PVC-U silicion free
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

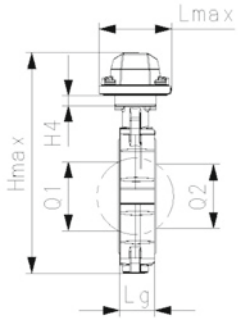
- Silicone free/paint-compatible
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

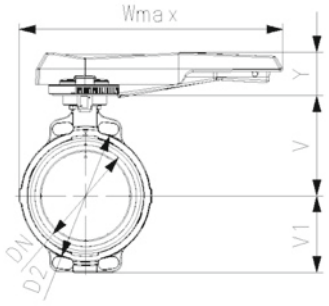
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 567 402**	1.040	**161 567 422**	1.044
75	2 ½	65	10	1500	**161 567 403**	1.350	**161 567 423**	1.148
90	3	80	10	2400	**161 567 404**	1.517	**161 567 424**	1.315
110	4	100	10	3800	**161 567 405**	2.528	**161 567 425**	1.983
140	5	125	10	8600	**161 567 406**	2.536	**161 567 426**	3.339
160	6	150	10	11400	**161 567 407**	3.541	**161 567 427**	3.564
225	8	200	10	19900	**161 567 408**	5.513	**161 567 428**	5.541



d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	M1 (mm)	M2 (mm)
63	278.9	115.2	269.0	90	133.3	23	78.8	45	104	40		66.8	64.7	205.5
75	291.8	115.2	271.8	90	139.9	23	85.1	46	115	54	35	66.8	64.7	205.5
90	303.6	115.2	273.9	90	145.6	23	91.2	49	131	67	50	66.8	64.7	205.5
110	342.2	115.2	336.0	90	166.4	23	105.7	56	161	88	74	70.1	64.9	255.5
140	368.9	115.2	349.0	90	180.0	23	118.8	64	187	113	97	70.1	64.9	255.5
160	390.0	115.2	363.0	90	189.0	23	130.9	72	215	139	123	70.1	64.9	255.5
225	455.1	149.4	543.0	90	210.5	23	158.3	73	267	178	169	86.3	103.6	409.5





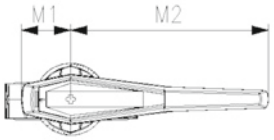
Wafer-style intermediate installation butterfly valve type 567 PVC-U oil free
With hand lever
Flange standard metric/ANSI/BS/JIS

Model:

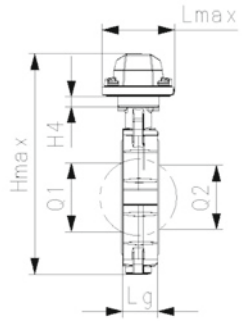
- Oil free
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Note:

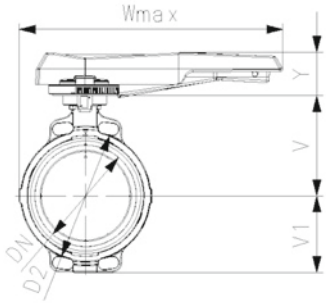
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 567 502**	1.040	**161 567 522**	1.040
75	2 ½	65	10	1500	**161 567 503**	1.344	**161 567 523**	1.143
90	3	80	10	2400	**161 567 504**	1.308	**161 567 524**	1.308
110	4	100	10	3800	**161 567 505**	1.969	**161 567 525**	2.230
140	5	125	10	8600	**161 567 506**	2.536	**161 567 526**	2.536
160	6	150	10	11400	**161 567 507**	3.731	**161 567 527**	3.541
225	8	200	10	19900	**161 567 508**	5.513	**161 567 528**	6.556

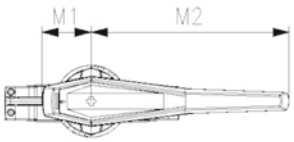


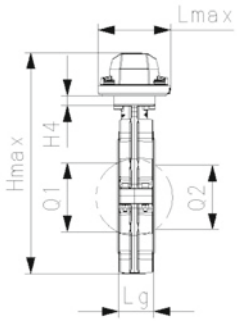
d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	M1 (mm)	M2 (mm)
63	278.9	115.2	269.0	90	133.3	23	78.8	45	104	40		66.8	64.7	205.5
75	291.8	115.2	271.8	90	139.9	23	85.1	46	115	54	35	66.8	64.7	205.5
90	303.6	115.2	273.9	90	145.6	23	91.2	49	131	67	50	66.8	64.7	205.5
110	342.2	115.2	336.0	90	166.4	23	105.7	56	161	88	74	70.1	64.9	255.5
140	368.9	115.2	349.0	90	180.0	23	118.8	64	187	113	97	70.1	64.9	255.5
160	390.0	115.2	363.0	90	189.0	23	130.9	72	215	139	123	70.1	64.9	255.5
225	455.1	149.4	543.0	90	210.5	23	158.3	73	267	178	169	86.3	103.6	409.5

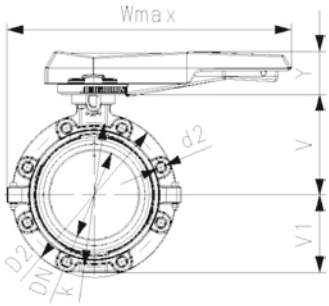


Lugstyle butterfly valves type 578









Lug-style end installation butterfly valve type 578 PVC-U silicone free
With hand lever
Flange standard metric

Model:

- Silicone free/paint-compatible
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)

Note:

For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on www.gfps.com

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
63	2	50	10	740	**161 578 402**	1.800	**161 578 422**	1.800
75	2 ½	65	10	1500	**161 578 403**	1.895	**161 578 423**	1.895
90	3	80	10	2400	**161 578 404**	2.251	**161 578 424**	2.251
110	4	100	10	3800	**161 578 405**	3.146	**161 578 425**	3.146
140	5	125	10	8600	**161 578 406**	4.660	**161 578 426**	4.660
160	6	150	10	11400	**161 578 407**	6.430	**161 578 427**	6.430
225	8	200	10	19900	**161 578 408**	8.625	**161 578 428**	8.625
280	10	250	6	34000	**161 578 409**	19.528	**161 578 429**	19.528
315	12	300	6	50000	**161 578 410**	26.106	**161 578 430**	26.106

d (mm)	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	d2	Y (mm)	M1 (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		M16	66.8	63.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	M16	66.8	63.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	M16	66.8	63.7
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	M16	70.1	63.7
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	M16	70.1	63.7
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	M20	70.1	63.7
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	M20	86.1	101.7
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	M20	86.3	101.7
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	M20	86.3	101.7

d (mm)	M2 (mm)
63	205.3
75	205.3
90	205.3
110	255.2
140	255.2
160	255.2
225	408.1
280	408.1
315	408.1

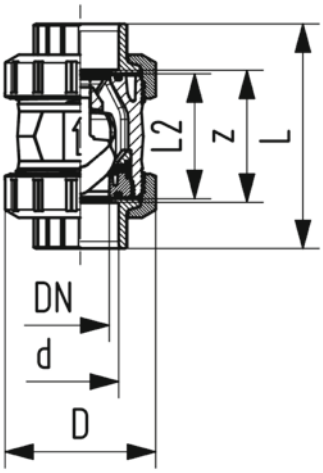
Cone check valves



Check valve type 561 PVC-U silicone free
Without spring
With solvent cement sockets metric

Model:

- Sealing at a minimum water column of 2 m
- Silicone free/paint-compatible
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	16	190	**161 561 201**	0.120	**161 561 211**	0.120
20	15	16	180	**161 561 202**	0.130	**161 561 212**	0.130
25	20	16	380	**161 561 203**	0.250	**161 561 213**	0.270
32	25	16	460	**161 561 204**	0.290	**161 561 214**	0.290
40	32	16	850	**161 561 205**	0.510	**161 561 215**	0.510
50	40	16	1080	**161 561 206**	0.750	**161 561 216**	0.750
63	50	16	1670	**161 561 207**	1.330	**161 561 217**	1.340
75	65	16	2950	**161 561 208**	3.160	**161 561 218**	3.170
90	80	16	3600	**161 561 209**	5.040	**161 561 219**	5.060
110	100	16	4150	**161 561 210**	8.130	**161 561 220**	8.170

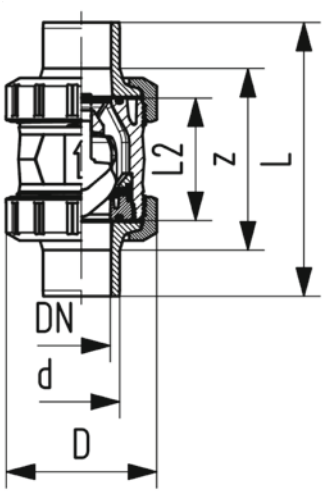
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	92	56	64	⅜
20	50	95	56	64	½
25	58	110	65	72	¾
32	68	123	71	79	1
40	84	146	85	94	1 ¼
50	97	157	89	95	1 ½
63	124	183	101	107	2
75	166	233	136	144	2 ½
90	200	254	141	151	3
110	238	301	164	174	4



Check valve type 561 PVC-U silicone free
Without spring
With solvent cement spigots metric

Model:

- Sealing at a minimum water column of 2 m
- Silicone free/paint-compatible
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	16	190	**161 561 221**	0.130	**161 561 231**	0.130
20	15	16	180	**161 561 222**	0.130	**161 561 232**	0.130
25	20	16	380	**161 561 223**	0.260	**161 561 233**	0.280
32	25	16	460	**161 561 224**	0.300	**161 561 234**	0.310
40	32	16	850	**161 561 225**	0.520	**161 561 235**	0.520
50	40	16	1080	**161 561 226**	0.790	**161 561 236**	0.790
63	50	16	1670	**161 561 227**	1.410	**161 561 237**	1.420
75	65	16	2950	**161 561 228**	3.310	**161 561 238**	3.320
90	80	16	3600	**161 561 229**	5.220	**161 561 239**	5.250
110	100	16	4150	**161 561 230**	8.350	**161 561 240**	8.390

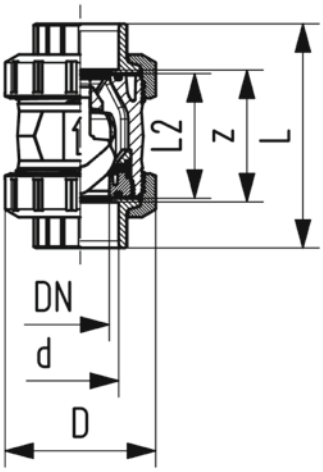
d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	114	56	⅜
20	50	124	56	½
25	58	144	65	¾
32	68	154	71	1
40	84	174	85	1 ¼
50	97	194	89	1 ½
63	124	224	101	2
75	166	284	136	2 ½
90	200	300	141	3
110	238	340	164	4



Check valve type 562 PVC-U SF
With solvent cement sockets metric

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Silicone free/paint-compatible
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	16	190	**161 562 201**	0.120	**161 562 211**	0.120
20	15	16	180	**161 562 202**	0.130	**161 562 212**	0.130
25	20	16	380	**161 562 203**	0.250	**161 562 213**	0.270
32	25	16	460	**161 562 204**	0.290	**161 562 214**	0.290
40	32	16	850	**161 562 205**	0.510	**161 562 215**	0.510
50	40	16	1080	**161 562 206**	0.750	**161 562 216**	0.750
63	50	16	1670	**161 562 207**	1.330	**161 562 217**	1.340
75	65	16	2950	**161 562 208**	3.160	**161 562 218**	3.170
90	80	16	3600	**161 562 209**	5.040	**161 562 219**	5.060
110	100	16	4150	**161 562 210**	8.130	**161 562 220**	8.170

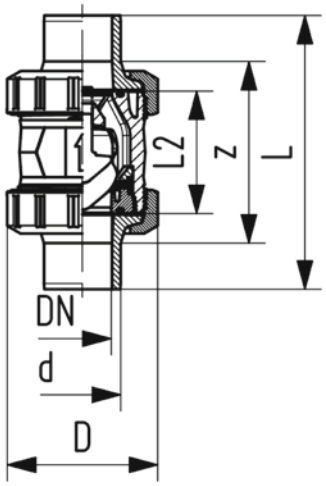
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	92	56	64	⅜
20	50	95	56	64	½
25	58	110	65	72	¾
32	68	123	71	79	1
40	84	146	85	94	1 ¼
50	97	157	89	95	1 ½
63	124	183	101	107	2
75	166	233	136	144	2 ½
90	200	254	141	151	3
110	238	301	164	174	4



Check valve type 562 PVC-U SF
With solvent cement spigots metric

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Silicone free/paint-compatible
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

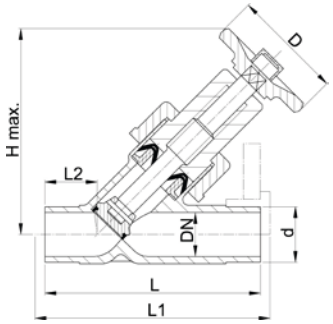


d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	16	190	**161 562 221**	0.130	**161 562 231**	0.130
20	15	16	180	**161 562 222**	0.130	**161 562 232**	0.130
25	20	16	380	**161 562 223**	0.260	**161 562 233**	0.280
32	25	16	460	**161 562 224**	0.300	**161 562 234**	0.310
40	32	16	850	**161 562 225**	0.520	**161 562 235**	0.520
50	40	16	1080	**161 562 226**	0.790	**161 562 236**	0.790
63	50	16	1670	**161 562 227**	1.410	**161 562 237**	1.420
75	65	16	2950	**161 562 228**	3.310	**161 562 238**	3.320
90	80	16	3600	**161 562 229**	5.220	**161 562 239**	5.250
110	100	16	4150	**161 562 230**	8.350	**161 562 240**	8.390

d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	114	56	⅜
20	50	124	56	½
25	58	144	65	¾
32	68	154	71	1
40	84	174	85	1 ¼
50	97	194	89	1 ½
63	124	224	101	2
75	166	284	136	2 ½
90	200	300	141	3
110	238	340	164	4

Angle seat valves





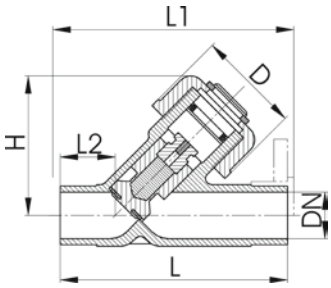
Angle seat valve type 300 PVC-U SF
With solvent cement spigots metric

Model:

- For horizontal or vertical installation
- Silicone free/paint-compatible
- Overall length EN 558

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	PE Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)	H max. (mm)
16	10	10	41	**161 300 800**	0.125	50	114	120	24	⅜	105
20	15	10	95	**161 300 801**	0.180	63	124	130	28	½	126
25	20	10	180	**161 300 802**	0.250	63	144	150	37	¾	140
32	25	10	327	**161 300 803**	2.600	80	154	160	37	1	166
40	32	10	484	**161 300 804**	0.580	80	174	180	44	1 ¼	191
50	40	10	725	**161 300 805**	1.005	100	194	200	48	1 ½	233
63	50	10	1130	**161 300 806**	0.944	100	224	230	60	2	264
75	65	10	1700	**161 300 807**	2.610	160	284	290	74	2 ½	335
90	80	10	2500	**161 300 808**	3.945	200	300	310	85	3	390





Angle seat check valve type 303 PVC-U silicone free
With solvent cement spigots metric

Model:

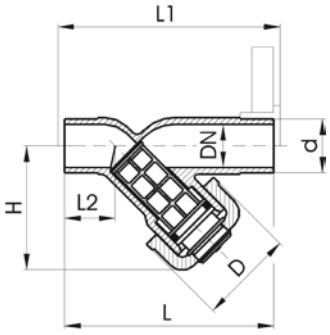
- For horizontal or vertical installation
- Leakproof even at minimum pressure
- Silicone free/paint-compatible
- Overall length EN 558

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
16	10	10	41	**161 303 015**	0.094	**161 303 040**	0.094
20	15	10	95	**161 303 016**	0.139	**161 303 041**	0.132
25	20	10	180	**161 303 017**	0.200	**161 303 042**	0.200
32	25	10	327	**161 303 018**	0.323	**161 303 043**	0.323
40	32	10	484	**161 303 019**	0.498	**161 303 044**	0.498
50	40	10	725	**161 303 020**	0.860	**161 303 045**	0.860
63	50	10	1130	**161 303 021**	1.455	**161 303 046**	1.455
75	65	10	1700	**161 303 022**	2.483	**161 303 047**	2.450
90	80	10	2500	**161 303 023**	3.511	**161 303 048**	3.511

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
16	39	58	114	120	24	⅜
20	43	65	124	130	28	½
25	47	75	144	150	37	¾
32	56	90	154	160	37	1
40	64	102	174	180	44	1 ¼
50	82	123	194	200	48	1 ½
63	95	144	224	230	60	2
75	92	186	284	290	74	2 ½
90	104	204	300	310	85	3

Strainers





Strainer type 305 PVC-U silicone-free
Transparent housing with solvent cement spigots metric

Model:

- Silicone free/paint-compatible
- Overall length EN 558
- With screen PVC-U, perforation ø 0.8 mm

d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FKM Code	Weight (kg)
20	15	10	35	**192 305 821**	0.101	**192 305 831**	0.114
25	20	10	63	**192 305 822**	0.150	**192 305 832**	0.170
32	25	10	85	**192 305 823**	0.255	**192 305 833**	0.229
40	32	10	150	**192 305 824**	0.386	**192 305 834**	0.386
50	40	10	225	**192 305 825**	0.643	**192 305 835**	0.643
63	50	10	346	**192 305 826**	0.979	**192 305 836**	1.033
75	65	10	535	**192 305 827**	1.835	**192 305 837**	1.835
90	80	10	750	**192 305 828**	2.549	**192 305 838**	2.565

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
20	43	65	124	130	28	½
25	47	76	144	150	37	¾
32	56	90	154	160	37	1
40	64	104	174	180	44	1 ¼
50	82	124	194	200	48	1 ½
63	95	148	224	230	60	2
75	106	188	284	290	74	2 ½
90	120	205	300	310	85	3

PVC-U Electric and pneumatic actuators

Electric actuators



Electric actuator type EA15/25/45/120/250

Model:

- Heating element, position feedback (Open/Close/ Middle)
- All: Adjustable heater and 7-segment error LED included
- EA15: control and position feedback open/close
- EA25 - 250: control open/close/middle; positon feedback open/close/middle ready to operate
- cUL E247458
- IP68 Rating

Option:

- All: Fail-safe return unit
- EA25-250: Monitoring board, Positioner, Profibus DP board, Modbus TCP EA 25-250 Ethernet Interface Card

*with adapter 198 000 587 F05 / SW 11, 198 204 057 F05 / SW 14

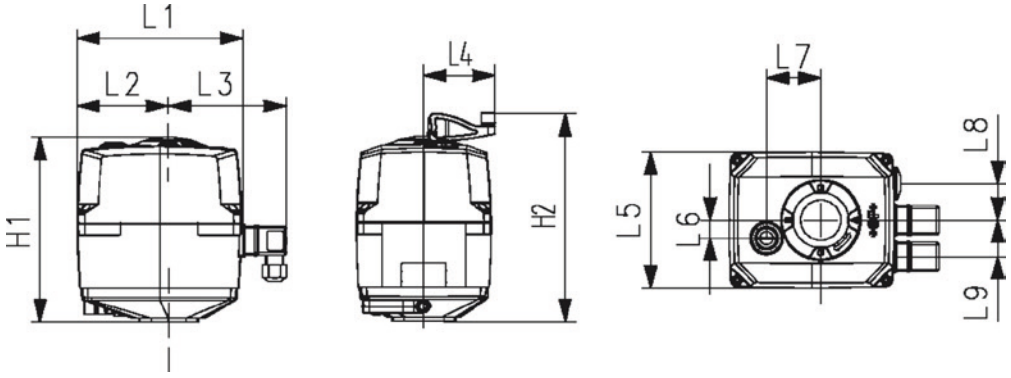
Type of actuator	Voltage	Torque nominal (N/m)	Torque maximal (N/m)	Interfaces
EA15	100-230V AC	10	20	F05 (SW 11/14)*
EA15	24V AC/DC	10	20	F05 (SW 11/14)*
EA25	100-230V AC	10	25	F05 (SW 11/14)*
EA25	24V AC/DC	10	25	F05 (SW 11/14)*
EA45	100-230V AC	20	45	F05 (SW 11/14)*
EA45	24V AC/DC	20	45	F05 (SW 11/14)*
EA120	100-230V AC	60	120	F07 (SW17)
EA120	24V AC/DC	60	120	F07 (SW17)
EA250	100-230V AC	100	250	F07 (SW22)
EA250	24V AC/DC	100	250	F07 (SW22)
EA15 cUL marked	100-230V AC	10	20	F05 (SW 11/14)*
EA15 cUL marked	24V AC/DC	10	20	F05 (SW 11/14)*
EA25 UL marked	100-230V AC	10	25	F05 (SW 11/14)*
EA25 cUL marked	24V AC/DC	10	25	F05 (SW 11/14)*
EA45 cUL marked	100-230V AC	20	45	F05 (SW 11/14)*
EA45 cUL marked	24V AC/DC	20	45	F05 (SW 11/14)*
EA120 cUL marked	100-230V AC	60	120	F07 (SW17)
EA120 cUL marked	24V AC/DC	60	120	F07 (SW17)
EA250 cUL marked	100-230V AC	100	250	F07 (SW22)
EA250 cUL marked	24V AC/DC	100	250	F07 (SW22)

Type of actuator	Code
EA15	**198 153 180**
EA15	**198 153 181**
EA25	**198 153 182**
EA25	**198 153 183**
EA45	**198 153 184**
EA45	**198 153 185**
EA120	**198 153 186**
EA120	**198 153 187**
EA250	**198 153 188**
EA250	**198 153 189**
EA15 cUL marked	**198153200**
EA15 cUL marked	**198 153 201**
EA25 UL marked	**198 153 202**
EA25 cUL marked	**198 153 203**
EA45 cUL marked	**198 153 204**
EA45 cUL marked	**198 153 205**

table continued on the next page

Type of actuator	Code
EA120 cUL marked	**198 153 206**
EA120 cUL marked	**198 153 207**
EA250 cUL marked	**198 153 208**
EA250 cUL marked	**198 153 209**

Type of actuator	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)
EA15	137	158	122	83.0	77	64.3	122	16	49		33
EA15	137	158	122	83.0	77	64.3	122	16	49		33
EA25	167	188	150	82.5	107	64.3	122	16	49	33	33
EA25	167	188	150	82.5	107	64.3	122	16	49	33	33
EA45	167	188	150	82.5	107	64.3	122	16	49	33	33
EA45	167	188	150	82.5	107	64.3	122	16	49	33	33
EA120	190	212	150	82.5	107	64.3	122	16	49	33	33
EA120	190	212	150	82.5	107	64.3	122	16	49	33	33
EA250	200	221	150	82.5	107	64.3	122	16	49	33	33
EA250	200	221	150	82.5	107	64.3	122	16	49	33	33
EA15 cUL marked	167	189	150	78.0	108	64.0	122	16	49	33	33
EA15 cUL marked	167	189	150	78.0	108	64.0	122	16	49	33	33
EA25 UL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA25 cUL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA45 cUL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA45 cUL marked	167	189	150	83.0	98	64.0	122	16	49	33	33
EA120 cUL marked	190	212	150	83.0	98	64.0	122	16	49	33	33
EA120 cUL marked	190	212	150	83.0	98	64.0	122	16	49	33	33
EA250 cUL marked	200	221	150	83.0	98	64.0	122	16	49	33	33
EA250 cUL marked	200	221	150	83.0	98	64.0	122	16	49	33	33









Modbus over RS485

Accessory for electric actuators type EA15/25/45/120/250

Model:

- All accessory can be retrofitted to installed actuators of the same generation
- Accessory works with 100-230V and 24V version

Material	Description	EA25-250 Code	EA15 Code	EA15-250 Code
Fail-safe return unit integrated	Moves actuator in pre-defined safe position upon power loss, integrated battery pack	**199 190 601**	**199 190 610**	
Fail-safe return unit external	Moves actuator in pre-defined safe position upon power loss, voltage supply implemented externally	**199 190 604**	**199 190 611**	
Positioner	Continuous actuator control. 4-20mA or 0-10 V Input and 4-20 mA Feedback	**199 190 603**		
Monitoring	Parameter monitoring. Generates alarm upon reaching its set limitations. Prevents water hammers or indicates maintenance need for valve	**199 190 602**		

table continued on the next page

Material	Description	EA25-250 Code	EA15 Code	EA15-250 Code
Profibus DP	Enables the actuator to be connected to a Profibus DP-V0 network	**199 190 605**		
Diagnostic Tool	Enables to read from the actuator main board and check configurations			**199 190 600**
EA Demobox	Demo Box for electric actuators type EA15/25/45/120/250 as well as for types EA11/21/31/42 Suitable for 24V & 100-230V Control Open/ Close/ Middle; Display for feedback end positions and ready to operate			**199 190 607**
Modbus RTU via RS485	Modbus RTU Interface Module for EA 25 - 250 to integrate GF actuators into Modbus systems which are based on RS-485.	**199 190 617**		



Electric actuator type EA04

Type of actuator	Voltage	Code	Weight (kg)
10Nm	100-230V	**198 151 480**	0.900
10Nm	24V	**198 151 481**	0.900
20Nm	24-240V	**198 151 492**	1.500



Electric actuator smart type dEA25/45/120/250

Model:

- Connectivity via NFC and Wi-Fi Direct ensuring control, identification and visibility without opening the case
- Most relevant asset data visualized in the app
- Connection and control via app possible
- LED stripe for visual open/close 360° feedback
- Heating element, position feedback (Open/Close/ Middle)
- All: Adjustable heater and 7-segment error LED included
- EA25 - 250: control open/close/middle; positon feedback open/close/middle ready to operate
- IP68 Rating

Option:

- All: fail-safe return unit

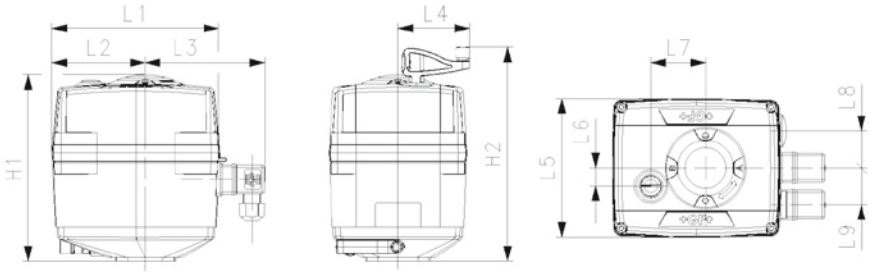
*with adapter 198 000 587 F05 / SW 11, 198 204 057 F05 / SW 14

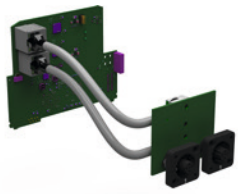
Type of actuator	Voltage	Torque nominal (N/m)	Torque maximal (N/m)	Interfaces	Code
dEA25	100 -230V AC	10	25	F05 (SW 11/14)*	**198 153 192**
dEA25	24V AC/DC	10	25	F05 (SW 11/14)*	**198 153 193**
dEA45	100 -230V AC	20	45	F05 (SW 11/14)*	**198 153 194**
dEA45	24V AC/DC	20	45	F05 (SW 11/14)*	**198 153 195**
dEA120	100 -230V AC	60	120	F07 (SW17)	**198 153 196**
dEA120	24V AC/DC	60	120	F07 (SW17)	**198 153 197**
dEA250	100 -230V AC	100	250	F07 (SW22)	**198 153 198**
dEA250	24V AC/DC	100	250	F07 (SW22)	**198 153 199**

Type of actuator	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)
dEA25	167	188	150	82.5	107	64.3	122	16	49	33	33
dEA25	167	188	150	82.5	107	64.3	122	16	49	33	33
dEA45	167	188	150	82.5	107	64.3	122	16	49	33	33
dEA45	167	188	150	82.5	107	64.3	122	16	49	33	33

table continued on the next page

Type of actuator	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)
dEA120	190	212	150	82.5	107	64.3	122	16	49	33	33
dEA120	190	212	150	82.5	107	64.3	122	16	49	33	33
dEA250	200	221	150	82.5	107	64.3	122	16	49	33	33
dEA250	200	221	150	82.5	107	64.3	122	16	49	33	33







PROFINET
EtherNet/IP
Modbus

Ethernet interface board for electric actuators

- Electric actuators can be equipped with an Industrial Ethernet interface, which enables the integration of actuators of the size EA25-250 into Industrial Ethernet.

Model:

- Accessory works with 100-230V and 24V version
- Industrial Ethernet Protocol Modbus TCP
- Cable gland

Remark:

optional adaption set for connection with M12 plug = 199190663

	Material	Description	Code
*	Modbus TCP EA25-250 Ethernet Interface Card	Industrial Ethernet interface card Modbus TCP, for integrating EA25-250 into Industrial Ethernet networks	**199 190 660**
*	EtherNet/IP EA25-250 Ethernet Interface Card	Industrial Ethernet interface card EtherNet/IP, for integrating EA25-250 into Industrial Ethernet networks	**199 190 661**
*	PROFINET EA25-250 Ethernet Interface Card	Industrial Ethernet interface card PROFINET, for integrating EA25-250 into Industrial Ethernet networks	**199 190 662**
	M12-Ethernet-Adapter-Set	M12 Ethernet adapter set, for Industrial Ethernet interface card, connection variant M12, M12 conversion set, RJ45 patch cable	**199 190 663**

Product Configurator

Create your own actuator

Electric Actuator

T01	EA 11 24V with Cable Plug
T02	EA 11 100-230V with Cable Plug
T07	EA 25 24V with Cable Plug
T08	EA 25 100-230V with Cable Plug
T09	EA 120 24V with Cable Plug
T10	EA 120 100-230V with Cable Plug
T11	EA 250 24V with Cable Plug
T12	EA 250 100-230V with Cable Plug



Angle (Open/ Close)

W45	45°
W90	90°
W180	180°

Middle Position

W17	No
W18	Yes

Colour Assignment Feedback

W20	Open = rot
W21	Open= grün

Position Feedback

W23	Open/ Close
W24	Open/ Close/ Middle
W25	Middle

Wiring Feedback

W26	NC
W28	NO

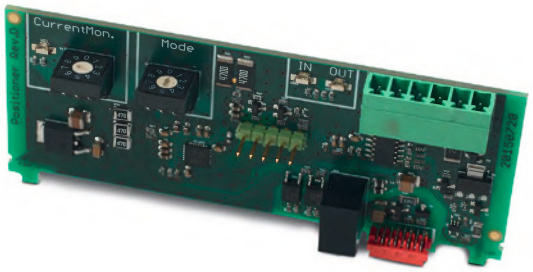


Heating Threshold

W29	5°
...	[5°steps]
W37	45°

Failsafe Return uni

W39	Integrated (Battery powered)
W40	External (no Battery - 24V needed)



Accessory

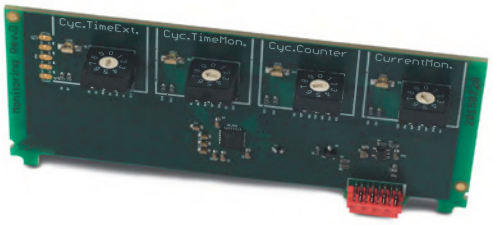
W42	Positioner
W43	Monitoring
W44	Profibus

Setting Positioner

W46	BCD = 0
...	
W55	BCD = 9

Setting Motor Current

W56	BCD = 0
...	
W65	BCD = 9



Setting Cycle Time

W66	BCD = 0
...	
W75	BCD = 9

Setting Cycle Time Monitoring

W76	BCD = 0
...	
W85	BCD = 9



Setting Cycle Counter

W86	BCD = 0
...	
W96	BCD = 9

T08	W90	W17	W20	W23	W26	W29	W39	W42	W46	W65	-	-	-	=

+GF+



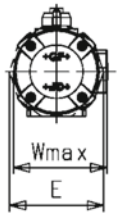
Actuator pneumatic type PPA
Double acting (DA)

Model:

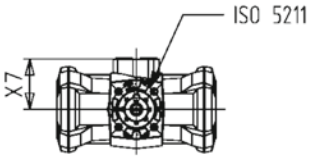
- Robust and compact PP-GF housing
- Full-plastic construction
- Lineary torque performance
- NAMUR connection according to VDE 3845 for integrated mounting of accessories

Option:

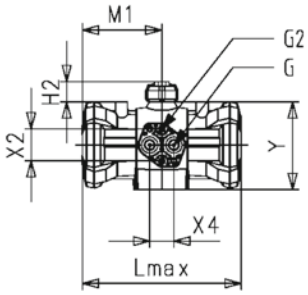
- Digital positioner RPC, RPC D, RPC PID
- Limit switch box for pneumatic actuators
- AS-Interface
- 3/2 way solenoid valve PV94/95



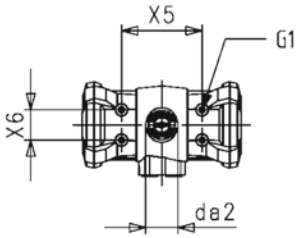
Type	Code	SP	Weight (kg)
PPA04 DA	**198 155 043**	1	0.255
PPA08 DA	**198 155 083**	1	0.419
PPA15 DA	**198 155 153**	1	0.714
PPA40 DA	**198 155 403**	1	1.322
PPA80 DA	**198 155 803**	1	2.463



G (inch)	G1 (mm)	H2 (mm)	ISO 5211	M1 (mm)	Wmax (mm)	X4 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	Y (mm)	da2 (mm)	Lmax (mm)	X2 (mm)	E (mm)
⅛	M5	20	F03	51	63	24	50	25	34	66	33	102		63
¼	M5	20	F05	64	77	24	80	30	43	75	33	128	32	74
¼	M5	20	F05	80	93	24	80	30	51	88	33	159	32	94
¼	M5	20	F05	92	117	24	80	30	62	111	33	184	32	120
¼	M5	20	F07	131	139	24	80	30	74	131	33	261	32	142



G2 (mm)	Ball Valve 546 Pro P range	Butterfly Valve 565 range
	DN10/DN15	
M5	DN10-DN25	
M5	DN32-DN40	
M5	DN50-DN80	DN50-DN80
M5	DN100	

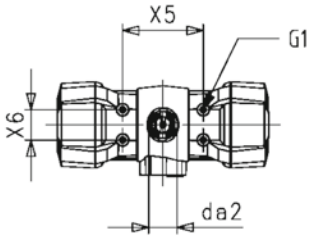




Actuator pneumatic type PPA
Fail safe to close (FC) / Fail safe to open (FO)

Model:

- Robust and compact PP-GF housing
- Full-plastic construction
- Lineary torque performance
- NAMUR connection according to VDE 3845 for integrated mounting of accessories



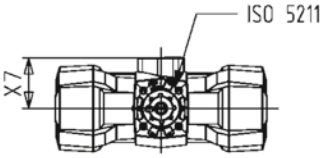
Option:

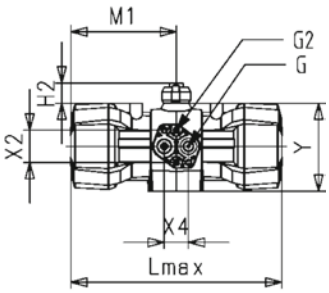
- Digital positioner RPC, RPC D, RPC PID
- Limit switch box for pneumatic actuators
- AS-Interface
- 3/2 way solenoid valve PV94/95

*Based on 5.6 bar control pressure (standard)
**Based on 4.2 bar control pressure



Type	Code	SP	Weight (kg)
PPA08 FC	**198 155 081**	1	0.551
PPA08 FO	**198 155 082**	1	0.551
PPA15 FC	**198 155 151**	1	1.006
PPA15 FO	**198 155 152**	1	1.006
PPA15 FC	**198 155 154**	1	1.025
PPA15 FO	**198 155 155**	1	1.025
PPA40 FC	**198 155 401**	1	1.917
PPA40 FO	**198 155 402**	1	1.917
PPA80 FC	**198 155 801**	1	3.683
PPA80 FO	**198 155 802**	1	3.683
PPA80 FC	**198 155 805**	1	3.581
PPA80 FO	**198 155 804**	1	3.581





Type	G (inch)	G1 (mm)	H2 (mm)	ISO 5211	M1 (mm)	Wmax (mm)	X4 (mm)	X5 (mm)	X6 (mm)	X7 (mm)	Y (mm)	da2 (mm)	Lmax (mm)
PPA08 FC	¼	M5	20	F05	80	77	24	80	30	43	75	33	159
PPA08 FO	¼	M5	20	F05	80	77	24	80	30	43	75	33	159
PPA15 FC	¼	M5	20	F05	106	93	24	80	30	51	88	33	211
PPA15 FO	¼	M5	20	F05	106	93	24	80	30	51	88	33	211
PPA15 FC	¼	M5	20	F05	106	93	24	80	30	51	88	33	211
PPA15 FO	¼	M5	20	F05	106	93	24	80	30	51	88	33	211
PPA40 FC	¼	M5	20	F05	123	117	24	80	30	62	111	33	246
PPA40 FO	¼	M5	20	F05	123	117	24	80	30	62	111	33	246
PPA80 FC	¼	M5	20	F07	172	139	24	80	30	74	131	33	343
PPA80 FO	¼	M5	20	F07	172	139	24	80	30	74	131	33	343
PPA80 FC	¼	M5	20	F07	172	139	24	80	30	74	131	33	343
PPA80 FO	¼	M5	20	F07	172	139	24	80	30	74	131	33	343

Type	X2 (mm)	E (mm)	G2 (mm)	Ball Valve 546 Pro P range *5.6 bar	Ball Valve 546 Pro P range **4.2 bar	Butterfly Valve 565 range
PPA08 FC	32	74	M5	DN10-DN20		
PPA08 FO	32	74	M5	DN10-DN20		
PPA15 FC	32	94	M5	DN25	DN10-DN25	
PPA15 FO	32	94	M5	DN25	DN10-DN25	
PPA15 FC	32	94	M5	DN32		
PPA15 FO	32	94	M5	DN32		
PPA40 FC	32	120	M5	DN40-DN50	DN32-DN50	DN50
PPA40 FO	32	120	M5	DN40-DN50	DN32-DN50	DN50

table continued on the next page

Type	X2 (mm)	E (mm)	G2 (mm)	Ball Valve 546 Pro P range *5.6 bar	Ball Valve 546 Pro P range **4.2 bar	Butterfly Valve 565 range
PPA80 FC	32	142	M5	DN65-DN100		DN65-DN110
PPA80 FO	32	142	M5	DN65-DN100		DN65-DN110
PPA80 FC	32	142	M5		DN65-DN100	DN65-DN110
PPA80 FO	32	142	M5		DN65-DN100	DN65-DN110

Type PA30 / PA90



Pneumatic actuator type PA30 - PA90
Fail safe to close/fail safe to open (FC/FO)

* Only valid for butterfly valve type 240, 241, 242 and ball valve type 230 - 235

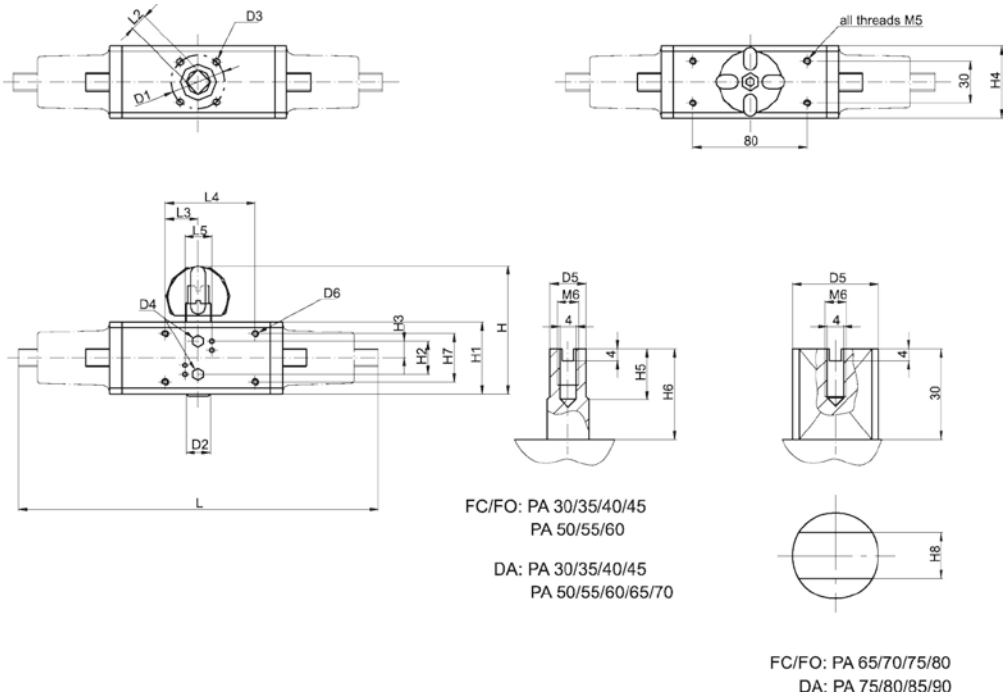
	Type	hard anodized Code	Weight (kg)	nickel plated Code	Weight (kg)	hard anodized with stroke limiter Code	Weight (kg)
	PA 30 FC/FO	**198 800 757**	2.022	**198 800 034**	2.400		
*	PA 30 FO	**198 811 025**	2.020				
	PA 35 FC/FO	**198 800 037**	2.673	**198 800 052**	2.400		
*	PA 35 FO	**198 811 026**	2.675				
	PA 40 FC/FO	**198 800 728**	3.602	**198 800 004**	3.598	**198 800 017**	3.598
*	PA 40 FO	**198 811 027**	3.623				
	PA 45 FC/FO	**198 800 039**	4.962	**198 800 054**	4.600		
*	PA45 FO	**198 811 028**	4.944				
	PA 50 FC/FO	**198 800 729**	6.921	**198 800 005**	6.921	**198 800 018**	6.921
*	PA50 FO	**198 811 029**	6.819				
	PA 55 FC/FO	**198 800 041**	9.354	**198 800 056**	9.400		
*	PA 55 FO	**198 811 030**	9.203				
	PA 60 FC/FO	**198 800 730**	11.371	**198 800 006**	12.895	**198 800 019**	12.895
	PA 65 FC/FO	**198 800 043**	15.900	**198 800 058**	15.900		
	PA 70 FC/FO	**198 800 731**	18.758	**198 800 007**	19.496	**198 800 020**	19.496
*	PA 70 FO	**198 811 198**	18.750				

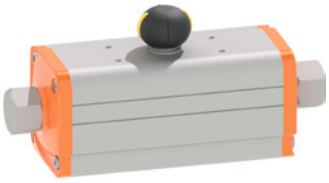
	Type	epoxy coated Code	Weight (kg)
	PA 30 FC/FO	**198 811 194**	2.400
*	PA 30 FO		
	PA 35 FC/FO	**198 800 029**	2.400
*	PA 35 FO		
	PA 40 FC/FO	**198 800 025**	3.598
*	PA 40 FO		
	PA 45 FC/FO		
*	PA45 FO		
	PA 50 FC/FO	**198 800 026**	6.921
*	PA50 FO		
	PA 55 FC/FO	**198 811 190**	9.424
*	PA 55 FO		
	PA 60 FC/FO		
	PA 65 FC/FO		
	PA 70 FC/FO	**198 800 028**	19.496
*	PA 70 FO		

table continued on the next page

	Type		D1 (mm)	D2 (mm)	D3[M] (mm)	D4 (inch)	D5 (mm)	L (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	H (mm)
	PA 30 FC/FO	F04	42	30	M5x9		10	272	11	35	70	32	102
*	PA 30 FO	F04	42	30	M5x9	⅛	10	272	11	35	70	32	102
	PA 35 FC/FO	F05	50	35	M6x11		12	336	14	35	70	32	111
*	PA 35 FO	F05	50	35	M6x11	⅛	12	336	14	35	70	32	111
	PA 40 FC/FO	F05	50	35	M6x11		12	364	14	35	70	32	129
*	PA 40 FO	F05	50	35	M6x11	⅛	12	364	14	35	70	32	129
	PA 45 FC/FO	F07	70	55	M8x15	⅛	15	403	17	35	70	32	139
*	PA45 FO	F07	70	55	M8x15	⅛	15	403	17	35	70	32	139
	PA 50 FC/FO	F07	70	55	M8x15		15	418	17	35	70	32	149
*	PA50 FO	F07	70	55	M8x15	⅛	15	418	17	35	70	32	149
	PA 55 FC/FO	F10	102	70	M10x17		19	478	22	35	70	32	161
*	PA 55 FO	F10	102	70	M10x17	⅛	19	478	22	35	70	32	161
	PA 60 FC/FO	F10	102	70	M10x17	⅛	19	497	22	35	70	32	173
	PA 65 FC/FO	F12	125	85	M12x21	¼		617	27			32	191
	PA 70 FC/FO	F12	125	85	M12x21			652	27			32	196
*	PA 70 FO	F12	125	85	M12x21	¼		652	27			32	196

	Type	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	H8 (mm)
	PA 30 FC/FO	70	21	18	65	13	20	36	
*	PA 30 FO	70	21	18	65	13	20	36	
	PA 35 FC/FO	78	21	18	72	13	20	36	
*	PA 35 FO	78	21	18	72	13	20	36	
	PA 40 FC/FO	86	25	21	80	13	30	36	
*	PA 40 FO	86	25	21	80	13	30	36	
	PA 45 FC/FO	96	25	21	90	16	30	36	
*	PA45 FO	96	25	21	90	16	30	36	
	PA 50 FC/FO	106	25	26	100	17	30	36	
*	PA50 FO	106	25	26	100	17	30	36	
	PA 55 FC/FO	118	25	25	112	19	30	36	
*	PA 55 FO	118	25	25	112	19	30	36	
	PA 60 FC/FO	130	25	32	124	19	30	36	
	PA 65 FC/FO	148	24	34	137				22
	PA 70 FC/FO	153	24	38	145				24
*	PA 70 FO	153	24	38	145				24





Pneumatic actuator type PA30 - PA90
Double acting (DA)

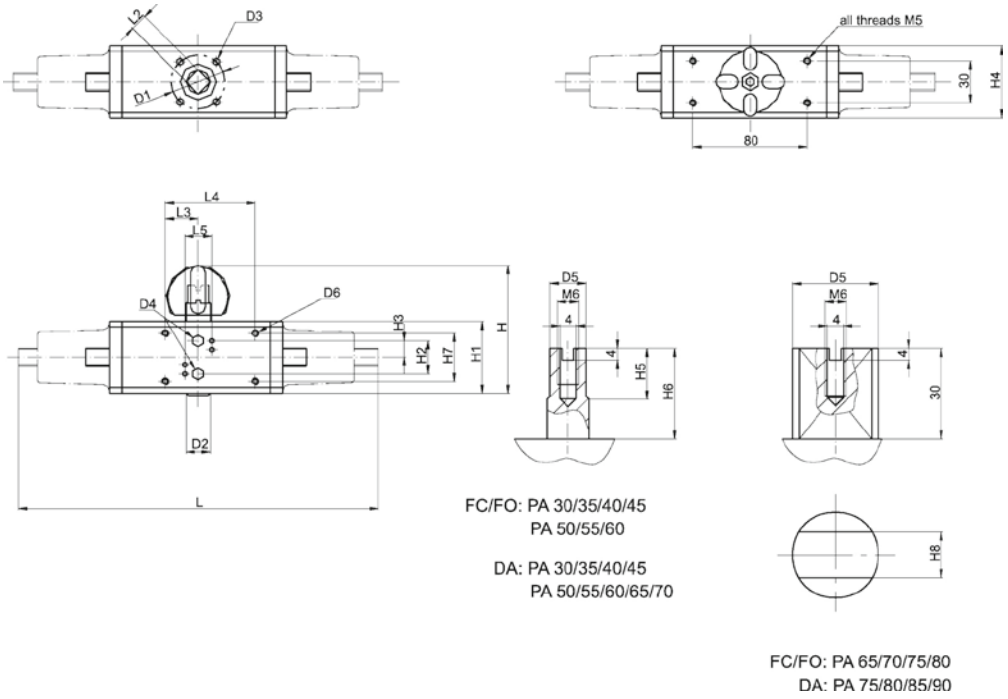
Type	hard anodized Code	Weight (kg)
PA 30 DA	**198 800 737**	1.004
PA 35 DA	**198 800 758**	1.346
PA 40 DA	**198 800 759**	1.731
PA 45 DA	**198 800 040**	2.155
PA 50 DA	**198 800 733**	2.981
PA 55 DA	**198 800 042**	3.892
PA 60 DA	**198 800 734**	5.647
PA 65 DA	**198 800 044**	7.293
PA 70 DA	**198 800 735**	9.008
PA 75 DA	**198 800 046**	12.000
PA 80 DA	**198 800 048**	14.000
PA 85 DA	**198 800 050**	21.527
PA 90 DA	**198 800 051**	25.400

H7 (mm)	D5 (mm)	H6 (mm)	L4 (mm)	L3 (mm)	H5 (mm)	D3[M] (mm)		D1 (mm)	D2 (mm)	D4 (inch)	L1 (mm)	L2 (mm)	L5 (mm)	H (mm)	H1 (mm)
36	9	20	70	35	10	M5x9	F03	36	25	⅛	169	9		92	60
36	10	20	70	35	13	M5x9	F03	42	30	⅛	183	11		98	66
36	10	20	70	35	13	M5x9	F05	42	30	⅛	190	11		102	70
36	12	20	70	35	13	M6x11	F05	50	35	⅛	225	14		111	78
36	12	30	70	35	13	M6x11	F05	50	35	⅛	240	14		129	86
36	15	30	70	35	16	M8x15	F07	70	55	⅛	269	17		139	96
36	15	30	70	35	17	M8x15	F07	70	55	⅛	314	17		149	106
36	19	30	70	35	19	M10x17	F10	102	70	⅛	336	22		161	118
36	19	30	70	35	19	M10x17	F10	102	70	⅛	365	22		173	130
						M12x21	F12	125	85	¼	402	27	32	191	148
						M12x21	F12	125	85	¼	445	27	32	197	153
						M16x25	F14	140	100	¼	529	36	32	229	186
						M16x25	F14	140	100	¼	581	36	32	241	198

H2 (mm)	H3 (mm)	H4 (mm)	H8 (mm)
25	12	55	
25	13	60	
21	18	65	
21	18	72	
25	21	80	
25	21	90	
25	26	100	
25	25	112	
25	32	124	

table continued on the next page

H2 (mm)	H3 (mm)	H4 (mm)	H8 (mm)
24	34	137	22
24	38	145	24
24	43	166	27
24	44	180	32



PVC-U Solvent cements and tools

Tangit Rapid solvent free adhesive for PVC-U



Tangit Rapid cartridges kit

- 2-Component-Adhesive
- For PVC-U and PVC-C
- Tangit Rapid Kit consists of 6 cartridges, 12 mixers and 2 plastic brushes
- Tool needed: Tangit Rapid dispenser and mixers
- Check chemical resistance list (www.gfps.com)

Language	description	Code	Weight (kg)
DE, FR	50 ml	**799 302 005**	0.566
FR, NL	50 ml	**799 302 041**	0.566
DK, SE	50 ml	**799 302 042**	0.566
GB, IT	50 ml	**799 302 043**	0.566
FI, NO	50 ml	**799 302 044**	0.566
DE, ES, FR, GB, IT, NL, PT	400 ml	**799 302 007**	3.700
DK, FI, NO, SE	400 ml	**799 302 047**	3.700



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the material of PE, PP, PB, PVDF, ECTFE and PVC-U
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

Size	Code	Weight (kg)
1 liter	**799 298 023**	0.872



Tangit Rapid dispenser

- For Tangit Rapid cartridges

d-d (mm)	description	Code	Weight (kg)
16 - 140	50ml	**799 302 011**	0.185
110 - 400	400ml	**799 302 013**	1.100



Tangit Rapid plastic brush

Dimension	Code	Weight (kg)
3/8"	**799 302 021**	0.006
1"	**799 302 022**	0.008
2"	**799 302 023**	0.010



Tangit Rapid mixer set

- For Tangit Rapid cartridges
- Bag with 30 pieces for 50ml and 15 pieces for 400ml

description	Code	Weight (kg)
50ml	**799 302 032**	0.160
400ml	**799 302 033**	0.190



Tangit Ruler with marking for insertion depth

d-d (mm)	Code	Weight (kg)
16 - 400	**799 302 036**	0.044

Solvent cementing for PVC-U



Tangit PVC-U solvent cement

- Tin à 0.250, 0.500 and 1.000 kg (Net)
- 0.125 kg tube

Description	Code	Weight (kg)
tube: 0.125 kg	**799 298 000**	0.125
tin: 0.25 kg	**799 298 001**	0.250
tin: 0.50 kg	**799 298 002**	0.500
tin: 1.00 kg	**799 298 003**	1.000



Tangit PVC-U Plus Solvent Cement

- Tetrahydrofuran (THF) und Cyclohexanone (CH) free
- Plastic packaging

d-d (mm)	Description	Code	Weight (kg)
16 - 90	125g	**799 298 040**	0.155
16 - 400	500g	**799 298 042**	0.573





Tangit PVC-U/PVC-C/ABS cleaner/primer

Model:

- For PVC-U, PVC-C, ABS
- 1 litre tin

Code	Weight (kg)
799 298 010	0.900



Tangit DTX special solvent cement

- Special solvent cement for critical media (see online tool ‚chemical resistance')
- For PVC-U, PVC-C
- Max. d140
- Use cleaner for PVC-U/C, ABS
- Tin à 0.500 kg

Language	Code	Weight (kg)
DE, FR, GB, NL	**799 298 031**	0.586
DK, FI, NO, SE	**200 119 366**	0.500
NL	**200 155 054**	0.586

Brushes



Round brush

d-d (mm)		Code	Weight (kg)	Closest inch (inch)
6 - 10	4 mm (for Fittings 6-10mm)	**799 299 001**	0.004	⅛
12 - 32	8 mm (for Fittings 12-32mm)	**799 299 002**	0.006	¼ - 1



Flat brush

d-d (mm)		Code	Weight (kg)	Closest inch (inch)
40 - 63	25x3 mm (for Fittings 40-63mm)	**799 299 003**	0.015	1 ¼ - 2
75 - 225	50x5 mm (for Fittings 75-225mm)	**799 299 004**	0.035	2 ½ - 8
250 - 400	75x6 mm (for Fittings 250-400mm)	**799 299 005**	0.053	9 - 16

PPC Plastic pipe cutter







PPC Plastic pipe cutter

Model:

- For cutting of plastic pipes d6 - d160
- Suitable for all GF plastic types PE, PVC-U, PVC-C, ABS, PP, PVDF, ECTFE
- Removable deburring tool integrated

Note:

* Additional spare cutting wheel included in the handle

	d (mm)	Article	Code	Weight (kg)	Closest inch (inch)
*	6 - 63	Plastic Pipe cutter (s max. 7.00mm)	**790 109 094**	0.785	⅛ - 2
	50 - 125	Plastic Pipe cutter (s max. 16.00mm)	**790 109 095**	1.875	1 ½ - 4
	110 - 160	Plastic Pipe cutter (s max. 16.00mm)	**790 109 096**	2.255	4 - 6
	6 - 63	Spare cutting wheel d6-63mm (3 Pcs./Pu.)	**790 109 097**	0.010	
	50-125 / 110-160	Spare cutting wheel d50-125mm / d110-160mm (2 Pcs./Pu.)	**790 109 098**	0.030	



Alignment Tool

- To align and position pipes in the dimension range d 110 - 400 mm. The pipes are clamped in the vice, the axial movement takes placed by a chain drive. The chain is totated by the ratched (square 19 mm).

Article	Code	Weight (kg)
Alignment Tool	**790 109 108**	15.000
Ratch	**790 109 107**	1.220



Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes. Fast and reliable adjustment to the different pipe diameters and wall thickness.

d-d (mm)	description	Code	Weight (kg)
25 - 110	Special version for INSTAFLEX PB	**790 309 005**	1.100
25 - 110	Standard version	**790 309 006**	1.100
25 - 200	Standard version	**790 309 003**	1.300
63 - 400	Standard version	**790 309 004**	2.600



Spare cutting wheel for discontinuing pipe cutter 790109001-03

- **for plastic pipe cutter**

d-d (mm)	Article	Code	Weight (kg)
10 - 63	SR 63 max. s=7,2 mm	**790 109 011**	0.004
50 - 110	SR 110/160 max. s=12,7 mm	**790 109 012**	0.015
110 - 160	SR 160 max. s=19,0 mm	**790 109 013**	0.023



Timer with 2 stop times

Code	Weight (kg)
790 114 028	0.088



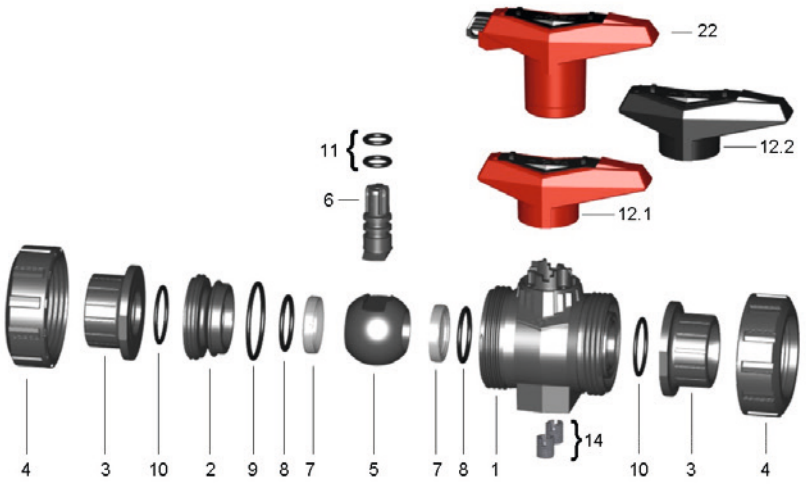
Marker

Type	Code	Weight (kg)
silver	**799 350 364**	0.010

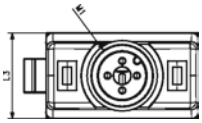
Spare parts		Page
	Spare parts ball valves	542
	Spare parts diaphragm valves	553
	Spare parts butterfly valves	561
	Spare parts Process control valves	564
	Spare parts cone check valves	570
	Spare parts wafer check valves	573
	Spare parts angle seat valves	575
	Spare parts solenoid valves	581
	Spare parts variable area flow meters	585
	Spare parts 567/565/578	590

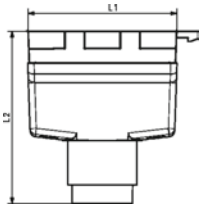
Spare parts ball valves

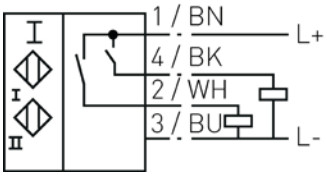
Spare parts ball valve type 546

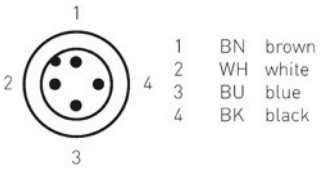












Double sensor for electrical position feedback
For double sensor (Ball valve 546 Pro, 543 Pro and Butterfly Valve 565/567/578)

Model:

- Accessory for Ball Valve type 546 Pro, 543 Pro and Butterfly Valve 565/567/578
- Enables electrical position feedback, incl. LED, in combination with GF interface module
- IP67 rating
- Female connector and cables available – see 198546150 – 154
- NAMUR version has ATEX and IECEx certification
- Dimensions: Ball Valves 546 Pro and 543 Pro DN10-100, Butterfly Valve 565 DN50-300, Butterfly Valve 567/578 DN50-200 and DN350-600

Specifications:
Housing material: PBTGF20
Switching function: 2x normally open (NO)
Output type: PNP or NPN
Output polarity: DC
Output type: 3-wire
Operating voltage (U_B): 10... 30V DC
Reverse polarity protection: all connections
Voltage drop (U_d): ≤3V
Operating current (L_L): 0... 150mA
Off-state current (L_r): 0... 0.5mA typ. 0.1 µA at 25°C
No-load supply current (L_0): ≤25mA
Ambient temperature: -25...70°C (-13...158°F)
Connection (system side): 4-pin, M12 x 1 connector
Standards: EN 60947-5-2:2007, EN 60947-5-2/A1:2012 IEC 60947-5-2:2007, IEC 60947-5-2 AMD 1:2012
$MTTF_d$ 948 a

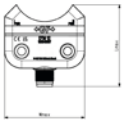
Note:
*NAMUR sensor does not work with 565
For manually operated valves an additional switching ring (article number 199565900-199565003) is required. For electric or pneumatic operated valves, the switching ring is already pre-assembled.

LED Signal Colour	PNP Code	Weight (kg)	NPN Code	*Namur (Atex) Code	L1 (mm)	L2 (mm)	L3 (mm)	M1
Closed: green / open: red	**198 546 001**	0.050	**198 546 005**	**198 546 003**	26	30	15	M12
Closed: red / open: green	**198 546 002**	0.050	**198 546 006**	**198 546 004**	26	30	15	M12

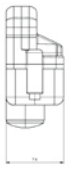
Specifications	PNP/NPN	NAMUR
Technology	Inductive	Inductive
Output circuit	PNP, NPN 2x NO contact	NAMUR 2x NC contact
Hysteresis	Typical 5%	Typical 10%
Switching frequency	<500 Hz	<1000 Hz
Switching status display	Output 1 / 2	Output 1 / 2
Art. Nr. 198546001 PNP	LED red / green	
Art. Nr. 198546002 PNP	LED green / red	
Art. Nr. 198546005 NPN	LED red / green	
Art. Nr. 198546006 NPN	LED green / red	
Art. Nr. 198546003 NAMUR		LED green / red
Art. Nr. 198546004 NAMUR		LED red / green
Supply voltage range +Vs	10...30V DC	8.2 V
Operating current	0...150 mA	
Voltage drop (Ud)	≤3V	
Off-state current (Ir)	0... 0.5mA typ. 0.1 µA bei 25°C	
No-load supply current (I0)	≤ 25 mA	≥ 3 mA
MTTFd	780 a	2122 a
Short-circuit proof	yes	
Reverse polarity protected	yes	
Protection class	IP67	
Housing material	PBTGF20	
Operating temperature	-25...70 °C (-13...158°F)	
Connection	4-pin, M12x1	
NAMUR version Approvals/certificates	Safety integrity level: SIL 2 IECEx TUR 20.0002X (Ga, Gb, Mb) TÜV 19 ATEX 8467 X(Ga, Gb)	

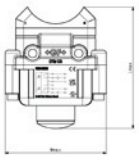












Double sensor DTM for electrical position feedback of pneumatic rotary actuators

Model:

- Two independent sensors for displaying the open and closed valve position of Actuators type PPA08-PPA80
- Small design with robust plastic housing with protection class IP 67
- Non-contact sensor eliminates the effects of mechanical wear
- Maintenance-free design
- Quick and easy installation
- LED display for operating voltage display (LED, green)
- LED for switching status display (LED, yellow)
- Connection variant Device plug M12 x 1, 4-pin
- Connection variant Screw terminal, cable gland M20 x 1.5

Option:

- Activator 198546009
- Female connector 198546150-154

Electrical connetion	PNP Code	SP	Weight (kg)
4-pin, M12 x 1	**198 546 007**	1	0.048
Screw terminal , cable gland M20 x 1.5Screw terminal , cable gland M20 x 1.5	**198 546 008**	1	0.098

Description	Y4 (mm)	Lmax (mm)	Wmax (mm)	Output	Operating voltage	Operating current	Hole pattern
DTM 12	20.0	52	52	3-wire (PNP)	10- 30 V DC	0-200 mA	30x80
DTM CG	37.5	69	52	3-wire (PNP)	10- 30 V DC	0-200 mA	30x80



DTM Puck, for actuating the double sensors of the DTM series

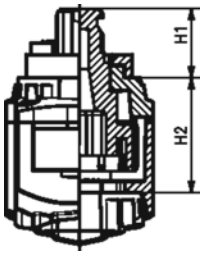
Model:

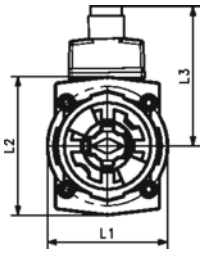
- Two fixed operating surfaces offset by 180°
- Suitable for right and left rotating Actuators
- Max. shaft diameter 34mm
- Max. Shaft Hight 20mm

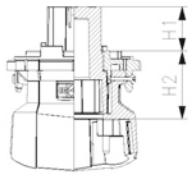
Code	SP	Weight (kg)	Y4 (mm)	Lmax (mm)	Wmax (mm)
198 546 009	1	0.030	40.0	32	32

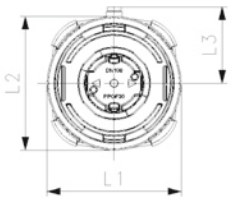












Manual Interface module
For Ball Valve Type 546 Pro & 543 Pro

Model:

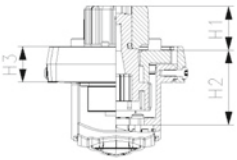
- Accessory for manual ball valve type 546 Pro and 543 Pro
- Position feedback through double sensor with LED (PNP, NPN and NAMUR) possible
- Inclusive labelling clip

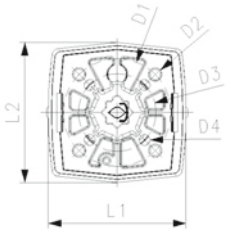
Ball Valve 543 Pro requires an additional spacer ring (DN10-15: 198543000, DN20-25: 198543001, DN32-40: 198543002, DN50: 198543003)

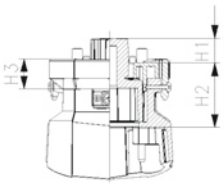
DN (mm)	d (mm)	Manual Interface Code	Weight (kg)	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)
10 - 15	16 - 20	**198 546 102**	0.042	15	32	37	44	46
20 - 25	25 - 32	**198 546 103**	0.052	20	32	41	47	48
32 - 40	40 - 50	**198 546 105**	0.097	23	33	53	60	54
50	63	**198 546 107**	0.111	26	36	56	62	55
65 - 80	75 - 90	**198 546 108**	0.111	34	52	103	103	58
100	110	**198 546 109**	0.111	34	52	103	103	58

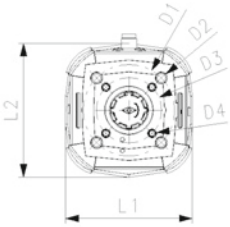












Interface module for GF actuators
For Ball Valve Type 546 Pro and 543 Pro

Model:

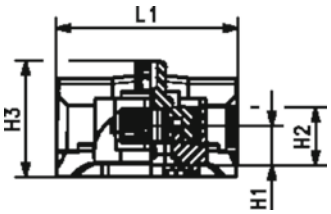
- Interface module acts as interface between GF actuators and ball valves
- Position feedback through double sensor with LED (PNP, NPN and NAMUR) possible
- Inclusive labelling clip

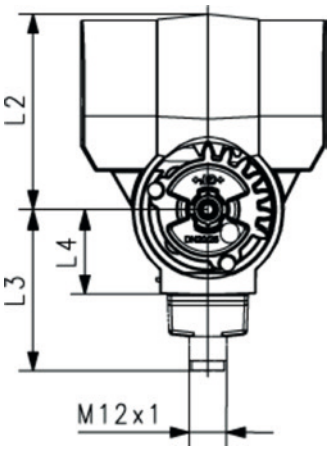
Ball Valve 543 Pro requires an additional spacer ring (DN10-15: 198543000, DN20-25: 198543001, DN32-40: 198543002, DN50: 198543003)

	DN (mm)	d (mm)	Interface for PPA Code	Weight (kg)	Interface for EA Code	Weight (kg)
	10 - 15	16 - 20	**198 546 162**	0.130	**198 546 142**	0.100
	20	25	**198 546 163**	0.105	**198 546 143**	0.100
	25	32	**198 546 164**	0.105	**198 546 144**	0.105
	32	40	**198 546 135**	0.001	**198 546 145**	0.140
	40	50	**198 546 136**	1.000	**198 546 146**	0.140
	50	63	**198 546 137**	1.000	**198 546 147**	0.140
if PPA40	65 - 80	75 - 90	**198 546 165**	0.001	**198 546 148**	0.140
if PPA80	65 - 80	75 - 90	**198 546 166**	0.135		
	100	110	**198 546 167**	0.001	**198 546 149**	0.140

	DN (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2	D3 (mm)	D4
	10 - 15	16	35	17	65	65	50	M6	36	M5
	20	16	35	17	65	65	50	M6	36	M5
	25	16	35	17	65	65	50	M6	36	M5
	32	18	33	15	72	79	50	M6		
	40	18	33	15	72	79	50	M6		
	50	18	36	15	72	79	50	M6		
if PPA40	65 - 80	19	49	23	92	91	70	M8	50	M6
if PPA80	65 - 80	19	49	23	92	91	70	M8	50	M6
	100	18	49	23	97	103	70	M8	50	M6







Manual spring return unit for ball valves 546 Pro and 543 Pro
Retrofit kit

Model:

- Manual spring return unit ("Dead-man lever") ensures that the valve closes after operation
- For safe sampling, dosing, cleaning or draining
- Retrofit possible with ball valve 546 (Pro)
- Includes transparent clip for valve labelling

Option:

- Double sensor for position feedback

Note:

*optional accessory to use a bigger lever for higher operating torque

d (mm)	DN (mm)	Code
16 - 20	10 - 15	**198 546 082**
25 - 32	20 - 25	**198 546 083**

Adapter for bigger lever*	Bigger size lever*	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H1 (mm)	H2 (mm)	H3 (mm)
198546088	167484549 (DN20)	74	42.5	46.0	22	11.0	20.0	42.5
198546089	167484551 (DN32)	79	63.0	51.5	27	17.5	25.5	50.5



Female connector
For double sensor (Ball valve 546 Pro and Butterfly Valve 565)

Model:

- Accessory for Ball Valve type 546 Pro and Butterfly Valve 565
- Connects double sensor to PLC
- Cable is flame-resistant
- Degree of protection IP67 / IP68 / IP69K

Note:

Degree of protection: EN60529:2000
Standards: IEC 61076-2-101:2008
Ambient temperature:
- Body: -40 ... 90 °C (-40 ... 194 °F)
- cable, fixed: -25 ... 70 °C (-13 ... 158 °F)
- cable, flexing: -5 ... 70 °C (23 ... 158 °F)
Pollution degree: 3

Code	Model
198 546 150	Connector without cable
198 546 151	Connector with cable (5m PVC)
198 546 152	Connector with cable (10m PVC)
198 546 153	Connector with cable (5m PUR)
198 546 154	Connector with cable (10m PUR)



Central part 546 Pro

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	ABS EPDM Code
16 - 20	⅜ - ½	10 - 15	**161 487 562**	**161 487 572**	**163 487 562**	**163 487 572**	**169 487 562**
25	¾	20	**161 487 563**	**161 487 573**	**163 487 563**	**163 487 573**	**169 487 563**
32	1	25	**161 487 564**	**161 487 574**	**163 487 564**	**163 487 574**	**169 487 564**
40	1 ¼	32	**161 487 565**	**161 487 575**	**163 487 565**	**163 487 575**	**169 487 565**
50	1 ½	40	**161 487 566**	**161 487 576**	**163 487 566**	**163 487 576**	**169 487 566**
63	2	50	**161 487 567**	**161 487 577**	**163 487 567**	**163 487 577**	**169 487 567**
75	2 ½	65	**161 486 157**	**161 486 169**	**163 481 257**	**163 481 269**	**169 480 757**
90	3	80	**161 486 158**	**161 486 170**	**163 481 258**	**163 481 270**	**169 480 758**
110	4	100	**161 486 159**	**161 486 171**	**163 481 259**	**163 481 271**	**169 480 759**

d (mm)	Size (inch)	DN (mm)	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code
16 - 20	⅜ - ½	10 - 15	**167 487 562**	**167 487 572**	**175 487 562**
25	¾	20	**167 487 563**	**167 487 573**	**175 487 563**
32	1	25	**167 487 564**	**167 487 574**	**175 487 564**
40	1 ¼	32	**167 487 565**	**167 487 575**	**175 487 565**
50	1 ½	40	**167 487 566**	**167 487 576**	**175 487 566**
63	2	50	**167 487 567**	**167 487 577**	**175 487 567**
75	2 ½	65	**167 482 882**	**167 482 894**	**175 482 969**
90	3	80	**167 482 883**	**167 482 895**	**175 482 970**
110	4	100	**167 482 884**	**167 482 896**	**175 482 971**



Central part

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 486 151**	**161 486 163**
20	½	15	**161 486 151**	**161 486 163**
25	¾	20	**161 486 152**	**161 486 164**
32	1	25	**161 486 153**	**161 486 165**
40	1 ¼	32	**161 486 154**	**161 486 166**
50	1 ½	40	**161 486 155**	**161 486 167**
63	2	50	**161 486 156**	**161 486 168**
75	2 ½	65	**161 486 157**	**161 486 169**
90	3	80	**161 486 158**	**161 486 170**
110	4	100	**161 486 159**	**161 486 171**



Face seal

Model:

- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 410 059**	**749 410 059**
20	½	15	**748 410 059**	**749 410 059**
25	¾	20	**748 410 106**	**749 410 106**
32	1	25	**748 410 151**	**749 410 151**
40	1 ¼	32	**748 410 062**	**749 410 062**
50	1 ½	40	**748 410 003**	**749 410 003**
63	2	50	**748 410 231**	**749 410 231**
75	2 ½	65	**748 410 119**	**749 410 119**
90	3	80	**748 410 023**	**749 410 023**
110	4	100	**748 410 254**	**749 410 254**



Seal set for ball valve 546 (Pro)

Model:

- Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d (mm)	Size (inch)	DN (mm)	DN (mm)	EPDM Code	FKM Code	KALREZ Code
16 - 20	½	15	10 - 15	**161 486 400**	**161 486 410**	**161 488 280**
25	¾	20	20	**161 486 401**	**161 486 411**	**161 488 281**
32	1	25	25	**161 486 402**	**161 486 412**	**161 488 282**
40	1 ¼	32	32	**161 486 403**	**161 486 413**	**161 488 283**
50	1 ½	40	40	**161 486 404**	**161 486 414**	**161 488 284**
63	2	50	50	**161 486 405**	**161 486 415**	**161 488 285**
75	2 ½	65	65	**161 486 406**	**161 486 416**	
90	3	80	80	**161 486 407**	**161 486 417**	
110	4	100	100	**161 486 408**	**161 486 418**	



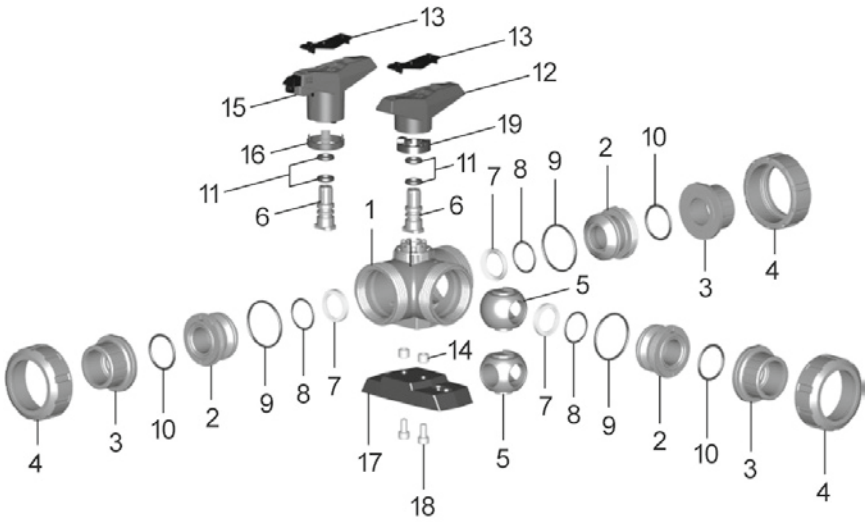
Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 486 375**	**161 486 385**
20	½	15	**161 486 375**	**161 486 385**
25	¾	20	**161 486 376**	**161 486 386**
32	1	25	**161 486 377**	**161 486 387**
40	1 ¼	32	**161 486 378**	**161 486 388**
50	1 ½	40	**161 486 379**	**161 486 389**
63	2	50	**161 486 380**	**161 486 390**
75	2 ½	65	**161 486 381**	**161 486 391**
90	3	80	**161 486 382**	**161 486 392**
110	4	100	**161 486 383**	**161 486 393**

Spare parts ball valve type 543 horizontal





Central part for Ball valve type 543 Pro
L-port
Horizontal

Model:

- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem
- Every connecting pieces and union nuts are listed on product range industry valves

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 488 002**	**161 488 012**
20	½	15	**161 488 002**	**161 488 012**
25	¾	20	**161 488 003**	**161 488 013**
32	1	25	**161 488 004**	**161 488 014**
40	1 ¼	32	**161 488 005**	**161 488 015**
50	1 ½	40	**161 488 006**	**161 488 016**
63	2	50	**161 488 007**	**161 488 017**



Central part for Ball valve type 543 Pro
T-port
Horizontal

Model:

- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 488 022**	**161 488 032**
20	½	15	**161 488 022**	**161 488 032**
25	¾	20	**161 488 023**	**161 488 033**
32	1	25	**161 488 024**	**161 488 034**
40	1 ¼	32	**161 488 025**	**161 488 035**
50	1 ½	40	**161 488 026**	**161 488 036**
63	2	50	**161 488 027**	**161 488 037**



Turn limiter 90°

d (mm)	Size (inch)	DN (mm)	Code
16	⅜	10	**167 482 479**
20	½	15	**167 482 479**
25	¾	20	**167 482 480**
32	1	25	**167 482 480**
40	1 ¼	32	**167 482 481**
50	1 ½	40	**167 482 481**
63	2	50	**167 482 482**



Face seal

Model:

- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 410 059**	**749 410 059**
20	½	15	**748 410 059**	**749 410 059**
25	¾	20	**748 410 106**	**749 410 106**
32	1	25	**748 410 151**	**749 410 151**
40	1 ¼	32	**748 410 062**	**749 410 062**
50	1 ½	40	**748 410 003**	**749 410 003**
63	2	50	**748 410 231**	**749 410 231**
75	2 ½	65	**748 410 119**	**749 410 119**
90	3	80	**748 410 023**	**749 410 023**
110	4	100	**748 410 254**	**749 410 254**



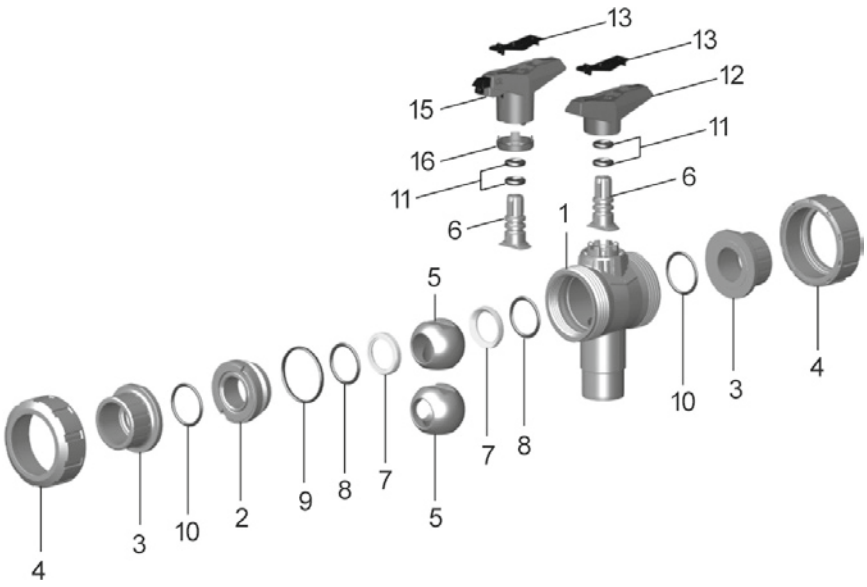
Ball set L-port

Model:

- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)
- Ball seals standard in PTFE

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 488 162**	**161 488 172**
20	½	15	**161 488 162**	**161 488 172**
25	¾	20	**161 488 163**	**161 488 173**
32	1	25	**161 488 164**	**161 488 174**
40	1 ¼	32	**161 488 165**	**161 488 175**
50	1 ½	40	**161 488 166**	**161 488 176**
63	2	50	**161 488 167**	**161 488 177**

Spare parts ball valve type 543 vertical





Central part for Ball valve type 543 Pro
L-port
Vertical

Model:

- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, standard lever, stainless steel threaded inserts and seal for: ball, backing, body, face and stem
- Every connecting pieces and union nuts are listed on product range industry valves

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 488 041**	**161 488 051**
20	⅜	15	**161 488 042**	**161 488 052**
25	¾	20	**161 488 043**	**161 488 053**
32	1	25	**161 488 044**	**161 488 054**
40	1 ¼	32	**161 488 045**	**161 488 055**
50	1 ½	40	**161 488 046**	**161 488 056**
63	2	50	**161 488 047**	**161 488 057**



Face seal

Model:

- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 410 059**	**749 410 059**
20	½	15	**748 410 059**	**749 410 059**
25	¾	20	**748 410 106**	**749 410 106**
32	1	25	**748 410 151**	**749 410 151**
40	1 ¼	32	**748 410 062**	**749 410 062**
50	1 ½	40	**748 410 003**	**749 410 003**
63	2	50	**748 410 231**	**749 410 231**

Spare parts metering ball valve type 523



Central part For Ball valve type 523

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, ball-, backing-, body-, face- and stem seal, standard lever and threaded inserts stainless steel

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 485 351**	**161 485 361**
20	½	15	**161 485 353**	**161 485 363**

Spare parts diaphragm valves



Mounting Tool type 604/605

Model:

- Hook wrench for easy opening & maintenance

Code	Weight (kg)
700 278 354	0.41

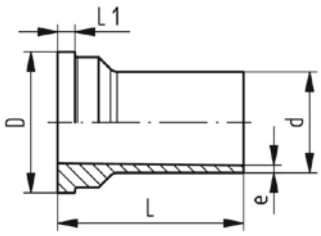
Spare parts for valve body type 514



O-ring

d (mm)	Size (inch)	DN (mm)	EPDM Code
20	½	15	**748 410 006**
25	¾	20	**748 410 007**
32	1	25	**748 410 008**
40	1 ¼	32	**748 410 009**
50	1 ½	40	**748 410 010**
63	2	50	**748 410 011**





SYGEF Standard Union end SDR21/PN16

Model:

- Material: PVDF

d (mm)	FM	PVDF Code	D (mm)	L (mm)	L1 (mm)	e (mm)
63	BCF, IR	**735 608 611**	78	68	8	3.0
75	BCF, IR	**735 608 612**	101	66	9	3.6
90	BCF, IR	**735 608 613**	101	65	9	4.3
110	BCF, IR	**735 608 614**	121	65	10	5.3



Union end PVC-U Rc for diaphragm valves type 514/DIASTAR, pressure regulating valves type 582/586 and variable area flow meters type 123/335/350 (6)

DN (mm)	d (mm)	Size (inch)	PVC-U Rc Code
15	20	½	**721 605 606**
20	25	¾	**721 605 607**
25	32	1	**721 605 608**
32	40	1 ¼	**721 605 609**
40	50	1 ½	**721 605 610**
50	63	2	**721 605 611**

Valve body with true union



Model:

- Without connection parts

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-C Code	ABS Code
20	½	15	**161 492 062**		
25	¾	20	**161 492 063**		**169 481 323**
32	1	25	**161 492 064**		
40	1 ¼	32	**161 492 065**		
50	1 ½	40	**161 492 066**	**163 482 056**	**169 481 326**
63	2	50	**161 492 067**		**169 481 327**

Spare parts for valve body type 515

Valve body with spigot ends







d (mm)	DN (mm)	Size (inch)	PVC-U solvent cement spigot Code	Weight (kg)
20	15	½	**161 492 072**	0.115
25	20	¾	**161 492 073**	0.183
32	25	1	**161 492 074**	0.246
40	32	1 ¼	**161 492 075**	0.379
50	40	1 ½	**161 492 076**	0.602
63	50	2	**161 492 077**	1.055



Spare parts for valve body type 517
Flat gasket

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
25	¾	20	**748 400 007**	**749 400 007**
32	1	25	**748 400 008**	**749 400 008**
40	1 ¼	32	**748 400 009**	**749 400 009**
50	1 ½	40	**748 400 010**	**749 400 010**
63	2	50	**748 400 011**	**749 400 011**



Spare parts diaphragm
For 5 series

Model:

- For type 514, 515, 517, 519 and Diastar

d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	NBR Code	EPDM Code	FKM Code	PTFE/EPDM Code	PTFE/EPDM HP Code	PTFE/FKM Code
20	**745 500 012**	**748 500 012**	**749 500 012**	**747 502 012**	**747 502 032**	**747 503 012**
25	**745 500 013**	**748 500 013**	**749 500 013**	**747 502 013**	**747 502 033**	**747 503 013**
32	**745 500 014**	**748 500 014**	**749 500 014**	**747 502 014**	**747 502 034**	**747 503 014**
40	**745 500 015**	**748 500 015**	**749 500 015**	**747 502 015**	**747 502 035**	**747 503 015**
50	**745 500 016**	**748 500 016**	**749 500 016**	**747 502 016**	**747 502 036**	**747 503 016**
63	**745 500 017**	**748 500 017**	**749 500 017**	**747 502 017**	**747 502 037**	**747 503 017**

Spare parts for automatic valves
Diastar Six/Ten/Sixteen









Actuators

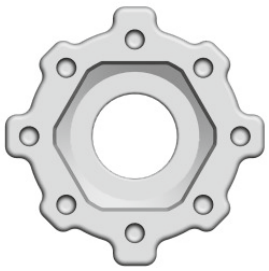
d (mm)	Size (inch)	DN (mm)
20	½	15
25	¾	20
32	1	25
40	1 ¼	32
50	1 ½	40
63	2	50

d (mm)	DIASTAR Six FC Code	DIASTAR Ten FC Code	Diastar Ten + FC Code	Diastar Sixteen FC Code	Diastar Ten FO Code	Diastar Ten DA Code
20	**198 151 762**	**198 151 772**	**198 153 062**	**198 151 782**	**198 151 792**	**198 151 802**
25	**198 151 763**	**198 151 773**	**198 153 063**	**198 151 783**	**198 151 793**	**198 151 803**
32	**198 151 764**	**198 151 774**	**198 153 064**	**198 151 784**	**198 151 794**	**198 151 804**
40	**198 151 765**	**198 151 775**	**198 153 065**	**198 151 785**	**198 151 795**	**198 151 805**
50	**198 151 766**	**198 151 776**	**198 153 066**	**198 151 786**	**198 151 796**	**198 151 806**
63	**198 151 767**	**198 151 777**	**198 153 067**	**198 151 787**	**198 151 797**	**198 151 807**



Indicator cap

Size (mm)	Code
1-2	**198 806 773**
3-5	**198 806 774**



Compressor set

Model:

- Incl. diaphragm holder

d (mm)	Inch (inch)	DN (mm)	Code
20	1/2	15	**198 000 872**
25	3/4	20	**198 000 873**
32	1	25	**198 000 874**
40	1 1/4	32	**198 000 875**
50	1 1/2	40	**198 000 876**
63	2	50	**198 000 877**



Seal set for DIASTAR Ten

Model:

- Spindle seal and piston seal

DN (mm)	Diastar Ten Code
15	**198 000 881**
20/25	**198 000 882**
32	**198 000 883**
40/50	**198 000 884**

Spare parts for hand-operated valves
Type 514/515/517/519





Bonnet complete

Model:

- Incl. compressor
- Diaphragm is not included

d (mm)	Size (inch)	DN (mm)	Standard configuration PN10 Code	For pressure tight housing PN10 Code	Standard configuration PN16 Code	For pressure tight housing PN16 Code
20	½	15	**198 151 742**	**198 151 752**	**198 151 842**	**198 151 852**
25	¾	20	**198 151 743**	**198 151 753**	**198 151 843**	**198 151 853**
32	1	25	**198 151 744**	**198 151 754**	**198 151 844**	**198 151 854**
40	1 ¼	32	**198 151 745**	**198 151 755**	**198 151 845**	**198 151 855**
50	1 ½	40	**198 151 746**	**198 151 756**	**198 151 846**	**198 151 856**
63	2	50	**198 151 747**	**198 151 757**	**198 151 847**	**198 151 857**



Spindle assembly

Model:

- Incl. compressor
- Position indicator is not included

DN-DN (mm)	Code
15 - 20	**198 204 327**
25 - 32	**198 204 328**
40 - 50	**198 204 329**



Position indicator

d (mm)	Size (inch)	DN (mm)	Code
20	½	15	**167 484 992**
25	¾	20	**167 484 993**
32	1	25	**167 484 994**
40	1 ¼	32	**167 484 995**
50	1 ½	40	**167 484 996**
63	2	50	**167 484 997**



Hand wheel

Model:

- Without position indicator

DN (mm)	Code
15 - 20	**198 204 162**
25 - 32	**198 204 164**
40 - 50	**198 104 166**



Seal set

Model:

- For manual valve - pressure tight housing
- Incl. position indicator

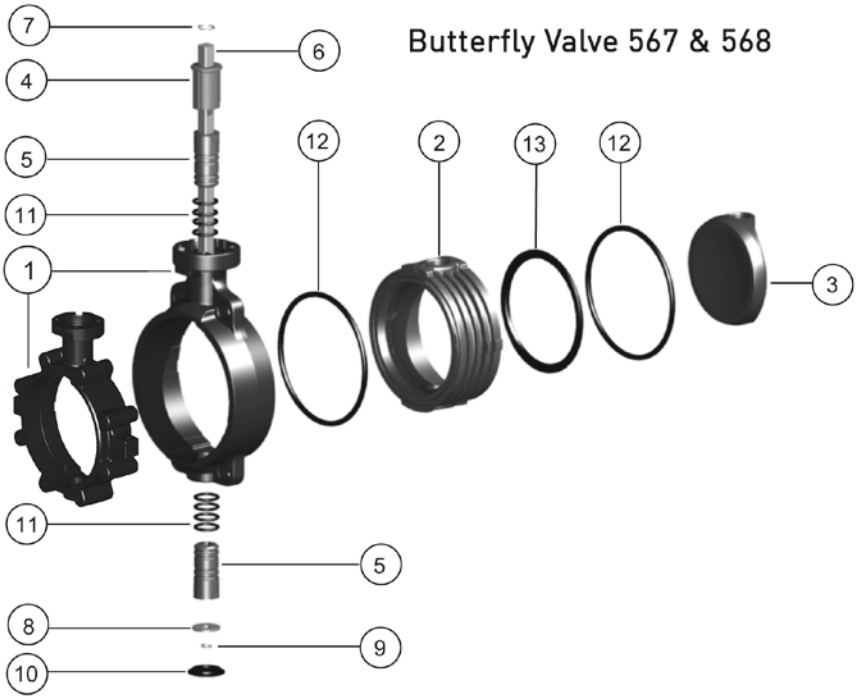
d (mm)	Size (inch)	DN (mm)	EPDM Code
20	½	15	**198 000 892**
25	¾	20	**198 000 893**
32	1	25	**198 000 894**
40	1 ¼	32	**198 000 895**
50	1 ½	40	**198 000 896**
63	2	50	**198 000 897**

Special wrench for DV

d (mm)	DN (mm)	Code
20	15	**198 154 012**
25	20	**198 154 013**
32	25	**198 154 014**
40	32	**198 154 015**
50	40	**198 154 016**
63	50	**198 154 017**

Spare parts butterfly valves

Spare parts butterfly valve type 567/578





Inner body for Butterfly Valve Type 567 and 578

Model:

- Inner body consisting of: inner body (2) and profile seal (13)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
63	2	50	**161 486 861**	**161 486 873**
75	2 ½	65	**161 486 862**	**161 486 874**
90	3	80	**161 486 863**	**161 486 875**
110	4	100	**161 486 864**	**161 486 876**
140	5	125	**161 486 865**	**161 486 877**
160	6	150	**161 486 866**	**161 486 878**
225	8	200	**161 486 867**	**161 486 879**
280	10	250	**161 486 868**	**161 486 880**
315	12	300	**161 486 869**	**161 486 881**



Disc for Butterfly Valve Type 567 and 578

d (mm)	Size (inch)	DN (mm)	PVC-U Code
63	2	50	**161 490 889**
75	2 ½	65	**161 490 890**
90	3	80	**161 490 891**
110	4	100	**161 490 892**
140	5	125	**161 490 893**
160	6	150	**161 490 894**
225	8	200	**161 490 895**
280	10	250	**161 490 896**
315	12	300	**161 490 897**



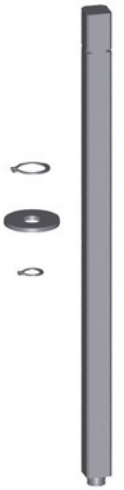


Bearing bush for Butterfly Valve Type 567 and 578

Model:

- Included in delivery 2 pcs.
- With o-ring
- Bearing bushes in PP-H are used in PP-H and ABS butterfly valves

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
63, 75, 90	2, 2½, 3	50, 65, 80	**161 486 886**	**161 486 892**
110, 140	4, 5	100, 125	**161 486 887**	**161 486 893**
160, 225	6, 8	150, 200	**161 486 888**	**161 486 894**
280, 315	10, 12	250, 300	**161 486 889**	**161 486 895**



Shaft set for Butterfly Valve Type 567 and 578

Model:

- Shaft set consisting of: shaft chrom steel 1.4404 (SUS316L) (6), retention ring (7, 9) and washer (8)

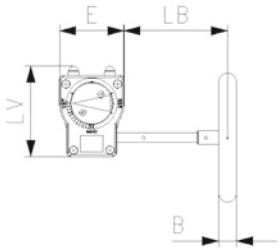
d (mm)	Size (inch)	DN (mm)	Code
63	2	50	**161 486 899**
75	2 ½	65	**161 486 900**
90	3	80	**161 486 901**
110	4	100	**161 486 902**
140	5	125	**161 486 903**
160	6	150	**161 486 904**
225	8	200	**161 486 905**
280	10	250	**161 486 906**
315	12	300	**161 486 907**
355	14	350	**161 486 908**
400	16	400	**161 486 909**
450	18	450	**161 486 926**
500	20	500	**161 486 927**
630	24	600	**161 486 928**

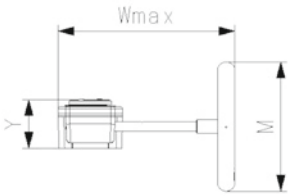


Hand lever for Butterfly Valve Type 567 and 578

d (mm)	Size (inch)	DN (mm)	with index plate Code	with fine adjustment Code
63	2	50	**161 486 690**	**161 486 325**
75	2 ½	65	**161 486 690**	**161 486 325**
90	3	80	**161 486 690**	**161 486 325**
110	4	100	**161 486 691**	**161 486 326**
140	5	125	**161 486 691**	**161 486 326**
160	6	150	**161 486 694**	**161 486 327**
225	8	200	**161 486 695**	**161 486 328**
280	10	250	**161 486 697**	
315	12	300	**161 486 697**	







Reduction gear with handwheel for Butterfly Valve Type 565, 567 and 578

- For valve actuation via a reduction gear with hand wheel. Suitable for all GF butterfly valves.
- Intermediate elements are required.
- This version is not recommended to use in outside or corrosive environment

DN (mm)	Code	Wmax (mm)	LV (mm)	Y (mm)	M (mm)	B (mm)	E (mm)	LB (mm)
50 - 200	**161 483 471**	221.0	112.3	61.2	160.0	23.0	80.0	129.5
250 - 300	**161 483 472**	246.3	130.0	68.4	200.0	24.6	100.0	134.0

Profile seal (13) DN350-600 for Butterfly Valve Type 567

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
355	14	350	**748 440 018**	**749 440 028**
400	16	400	**748 440 019**	**749 440 029**
450	18	450	**748 440 020**	**749 440 030**
500	20	500	**748 440 021**	**749 440 031**
630	24	600	**748 440 022**	**749 440 032**



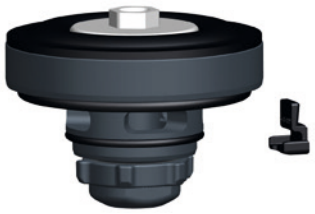
Intermediate element for Butterfly Valve Type 567 and 578 (reduction gear)

d (mm)	DN (mm)	Code
63	50	**198 000 621**
75	65	**198 000 621**
90	80	**198 000 621**
110	100	**198 000 622**
140	125	**198 000 622**
140	150	**198 000 600**
140	150	**198 000 600**
280	250	**198 000 732**
280	250	**198 000 732**

Spare parts Process control valves

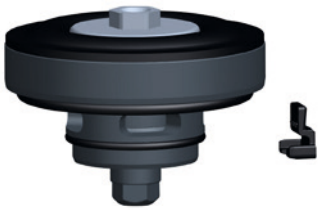
Pressure regulating valve type 582/586





Cartridge type 582

DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
10-15	**161 489 131**	**161 489 231**
20-25	**161 489 133**	**161 489 233**
32-50	**161 489 136**	**161 489 236**



Cartridge type 586

DN (mm)	PVC-U EPDM Code	PVC-U FKM Code	PVDF-HP FKM Code
10-15	**161 489 161**	**161 489 261**	**180 489 161**
20-25	**161 489 163**	**161 489 263**	**180 489 163**
32-50	**161 489 166**	**161 489 266**	**180 489 166**

Cover cap

DN (mm)	Type	Code
10-15	582/586	**198 806 391**
20-25	582/586	**198 806 393**
32-50	582/586	**198 806 396**



SYGEF Standard Manometer Adapter
For pressure regulating valves type 582/586

Model:

- Material: PVDF
- For media separation from pressure gauge to process medium
- PTFE/EPDM Manometer diaphragm
- *EPDM and FKM O-Ring included in Set

DN (mm)	EPDM/FKM Code	FKM white (HP) Code
10-50	**198 806 650**	**198 806 654**

Manometer
For pressure regulating valves type 582/586

Model:

- Display with double scale: 0-4 bar / 0-58 psi, size: ø 40mm
- Display with double scale: 0-10bar / 0-150psi, size: ø 40mm
- Connection G 1/4 center back mount

DN (mm)	Material	EPDM/FKM 0-10bar Code	FKM white (HP) 0-10bar Code	EPDM/FKM 0-4bar Code
10-50	Brass	**198 806 651**	**198 806 655**	**198 806 963**
10-50	Stainless Steel	**198 806 652**	**198 806 656**	**198 806 962**

Manometer plug
For pressure regulating valves type 582/586

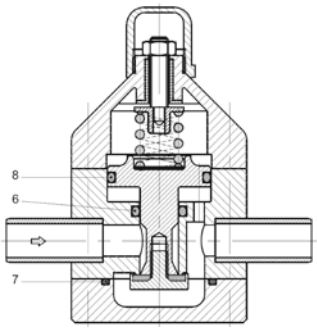
- For maintenance

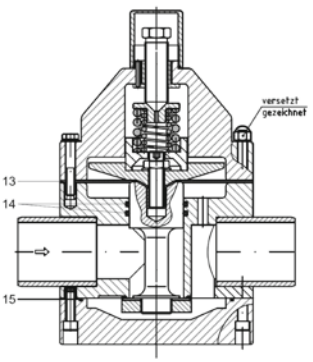
DN (mm)	Code
10-50	**198 806 653**

Hook wrench

DN (mm)	Type	Code
10-15	582/586	**198 806 451**
20-25	582/586	**198 806 452**
32-50	582/586	**198 806 453**

Pressure reducing valve type V182/82





Model:

- Spare part kit contains: diaphragm and o-rings

Type	DN-DN (mm)	EPDM Code	PTFE Code
V82	65	**700 254 404**	**700 254 308**
V82	80	**700 254 405**	**700 254 309**
V82	100	**700 254 406**	**700 254 310**

Pressure relief valve type V185/85

Model:

- Spare part kit contains: diaphragm

Type	DN-DN (mm)	EPDM Code	PTFE Code
V85	65	**700 254 336**	**700 254 342**
V85	80	**700 254 337**	**700 254 343**
V85	100	**700 254 338**	**700 254 344**

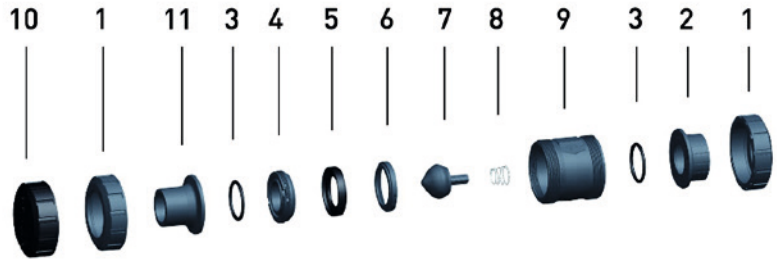
Pressure retaining valve type V186/86

Model:

- Spare part kit contains: diaphragm

Type	DN-DN (mm)	EPDM Code	PTFE Code
V86	65	**700 254 376**	**700 254 379**
V86	80	**700 254 377**	**700 254 380**
V86	100	**700 254 378**	**700 254 381**

Spare parts ventilating- and bleed valve type 591/595





Central part with spring for Bleeding valve type 595

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), floater (7), spring Nimonic 90 Halar coated (8), profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 485 281**	**161 485 291**
20	½	15	**161 485 281**	**161 485 291**
25	¾	20	**161 485 282**	**161 485 292**
32	1	25	**161 485 283**	**161 485 293**
40	1 ¼	32	**161 485 284**	**161 485 294**
50	1 ½	40	**161 485 285**	**161 485 295**
63	2	50	**161 485 286**	**161 485 296**
75	2 ½	65	**161 485 287**	**161 485 297**
90	3	80	**161 485 288**	**161 485 298**
110	4	100	**161 485 289**	**161 485 299**

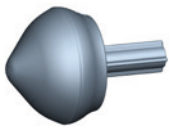


Central part without spring for Ventilating and Bleed valve 591

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), floater PP-H/PVDF (7), profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 485 261**	**161 485 271**
20	½	15	**161 485 261**	**161 485 271**
25	¾	20	**161 485 262**	**161 485 272**
32	1	25	**161 485 263**	**161 485 273**
40	1 ¼	32	**161 485 264**	**161 485 274**
50	1 ½	40	**161 485 265**	**161 485 275**
63	2	50	**161 485 266**	**161 485 276**
75	2 ½	65	**161 485 267**	**161 485 277**
90	3	80	**161 485 268**	**161 485 278**
110	4	100	**161 485 269**	**161 485 279**

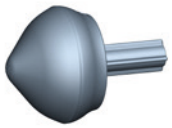


Cone (7)

Model:

- For type 595

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 491 151**
25	¾	20	**161 491 152**
32	1	25	**161 491 153**
40	1 ¼	32	**161 491 154**
50	1 ½	40	**161 491 155**
63	2	50	**161 491 156**
75	2 ½	65	**161 491 157**
90	3	80	**161 491 158**
110	4	100	**161 491 159**



Floater (7)

Model:

- For type 591

d (mm)	Size (inch)	DN (mm)	PP-H Code	PVDF Code
16	⅜	10	**167 485 151**	**175 484 161**
20	½	15	**167 485 151**	**175 484 161**
25	¾	20	**167 485 152**	**175 484 162**
32	1	25	**167 485 153**	**175 484 163**
40	1 ¼	32	**167 485 154**	**175 484 164**
50	1 ½	40	**167 485 155**	**175 484 165**
63	2	50	**167 485 156**	**175 484 166**
75	2 ½	65	**167 485 157**	**175 484 167**
90	3	80	**167 485 158**	**175 484 168**
110	4	100	**167 485 159**	**175 484 169**



Protective cap (10)

Model:

- Protects the piping system from dirt particles out of the ambient airCan also be used as tool for opening and closing the valve union bushing

d (mm)	Size (inch)	DN (mm)	PP-GF Code
16	⅜	10	**167 485 361**
20	½	15	**167 485 361**
25	¾	20	**167 485 362**
32	1	25	**167 485 363**
40	1 ¼	32	**167 485 364**
50	1 ½	40	**167 485 365**
63	2	50	**167 485 366**
75	2 ½	65	**167 485 367**
90	3	80	**167 485 368**
110	4	100	**167 485 369**



Seal set

Model:

- Seal set consisting of: profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**161 485 241**	**161 485 251**
20	½	15	**161 485 241**	**161 485 251**
25	¾	20	**161 485 242**	**161 485 252**
32	1	25	**161 485 243**	**161 485 253**
40	1 ¼	32	**161 485 244**	**161 485 254**
50	1 ½	40	**161 485 245**	**161 485 255**
63	2	50	**161 485 246**	**161 485 256**
75	2 ½	65	**161 485 247**	**161 485 257**
90	3	80	**161 485 248**	**161 485 258**
110	4	100	**161 485 249**	**161 485 259**



DN10/15 - 50

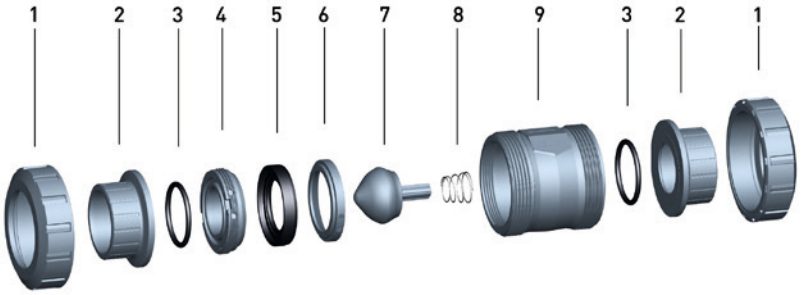


Handle for dismantling

d (mm)	Size (inch)	DN (mm)	red Code	black Code
16	⅜	10	**167 484 088**	**167 484 076**
20	½	15	**167 484 088**	**167 484 076**
25	¾	20	**167 484 089**	**167 484 077**
32	1	25	**167 484 090**	**167 484 078**
40	1 ¼	32	**167 484 091**	**167 484 079**
50	1 ½	40	**167 484 092**	**167 484 080**
63	2	50	**167 484 093**	**167 484 081**
75	2 ½	65	**167 484 094**	**167 484 082**
90	3	80	**167 484 095**	**167 484 083**
110	4	100	**167 484 096**	**167 484 084**

Spare parts cone check valves

Spare parts cone check valve type 561/562



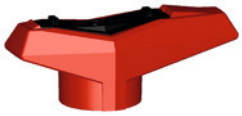


Central part without spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 485 201**	**161 485 211**
20	½	15	**161 485 201**	**161 485 211**
25	¾	20	**161 485 202**	**161 485 212**
32	1	25	**161 485 203**	**161 485 213**
40	1 ¼	32	**161 485 204**	**161 485 214**
50	1 ½	40	**161 485 205**	**161 485 215**
63	2	50	**161 485 206**	**161 485 216**
75	2 ½	65	**161 485 207**	**161 485 217**
90	3	80	**161 485 208**	**161 485 218**
110	4	100	**161 485 209**	**161 485 219**





Handle for dismantling

d (mm)	Size (inch)	DN (mm)	red Code	black Code
16	⅜	10	**167 484 088**	**167 484 076**
20	½	15	**167 484 088**	**167 484 076**
25	¾	20	**167 484 089**	**167 484 077**
32	1	25	**167 484 090**	**167 484 078**
40	1 ¼	32	**167 484 091**	**167 484 079**
50	1 ½	40	**167 484 092**	**167 484 080**
63	2	50	**167 484 093**	**167 484 081**
75	2 ½	65	**167 484 094**	**167 484 082**
90	3	80	**167 484 095**	**167 484 083**
110	4	100	**167 484 096**	**167 484 084**



Face seal (3)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 410 059**	**749 410 059**
20	½	15	**748 410 059**	**749 410 059**
25	¾	20	**748 410 106**	**749 410 106**

table continued on the next page

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
32	1	25	**748 410 151**	**749 410 151**
40	1 ¼	32	**748 410 062**	**749 410 062**
50	1 ½	40	**748 410 003**	**749 410 003**
63	2	50	**748 410 231**	**749 410 231**
75	2 ½	65	**748 410 119**	**749 410 119**
90	3	80	**748 410 023**	**749 410 023**
110	4	100	**748 410 254**	**749 410 254**



Seal set

Model:

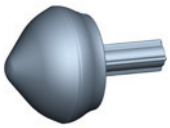
- Seal set consisting of: profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**161 485 241**	**161 485 251**
20	½	15	**161 485 241**	**161 485 251**
25	¾	20	**161 485 242**	**161 485 252**
32	1	25	**161 485 243**	**161 485 253**
40	1 ¼	32	**161 485 244**	**161 485 254**
50	1 ½	40	**161 485 245**	**161 485 255**
63	2	50	**161 485 246**	**161 485 256**
75	2 ½	65	**161 485 247**	**161 485 257**
90	3	80	**161 485 248**	**161 485 258**
110	4	100	**161 485 249**	**161 485 259**



Profile seal ring (5)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 436 001**	**749 436 001**
20	½	15	**748 436 001**	**749 436 001**
25	¾	20	**748 436 002**	**749 436 002**
32	1	25	**748 436 003**	**749 436 003**
40	1 ¼	32	**748 436 004**	**749 436 004**
50	1 ½	40	**748 436 005**	**749 436 005**
63	2	50	**748 436 006**	**749 436 006**
75	2 ½	65	**748 436 007**	**749 436 007**
90	3	80	**748 436 008**	**749 436 008**
110	4	100	**748 436 009**	**749 436 009**



Cone (7)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 491 151**
20	½	15	**161 491 151**
25	¾	20	**161 491 152**
32	1	25	**161 491 153**
40	1 ¼	32	**161 491 154**
50	1 ½	40	**161 491 155**
63	2	50	**161 491 156**
75	2 ½	65	**161 491 157**
90	3	80	**161 491 158**
110	4	100	**161 491 159**



Spring (8)

Model:

- Material: NIMONIC 90, code: 2.4632
- Material: Stainless steel, code: 1.4310, HALAR® coated
- Material: Stainless steel, code: 1.4310

d (mm)	Size (inch)	DN (mm)	Stainless steel Code	Stainless steel HALAR coated Code	NIMONIC 90 Code
16 - 25	⅜ - ¼	10 - 20	**161 485 132**	**161 485 142**	**161 485 152**
32	1	25	**161 485 133**	**161 485 143**	**161 485 153**
40	1 ¼	32	**161 485 134**	**161 485 144**	**161 485 154**
50	1 ½	40	**161 485 135**	**161 485 145**	**161 485 155**
63	2	50	**161 485 136**	**161 485 146**	**161 485 156**
75	2 ½	65	**161 485 137**	**161 485 147**	**161 485 157**
90	3	80	**161 485 138**	**161 485 148**	**161 485 158**
110	4	100	**161 485 139**	**161 485 149**	**161 485 159**



Central part with spring

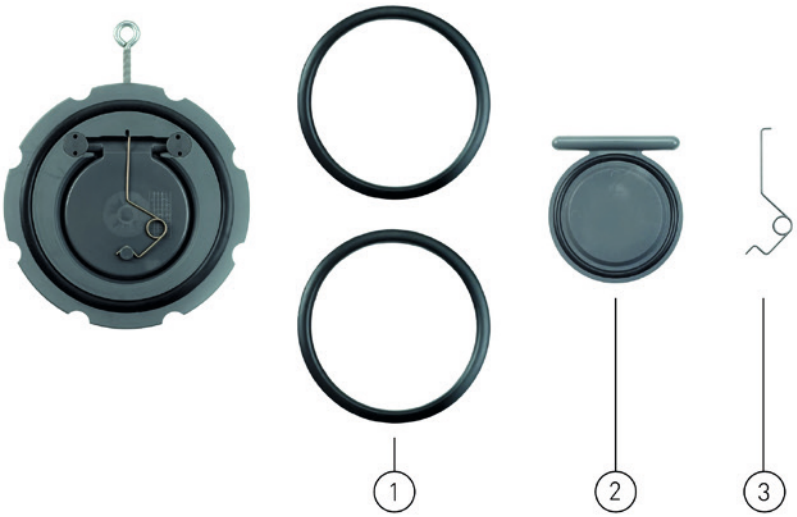
Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), spring V2A (8), profile seal ring (5) and face seal (3)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
16	⅜	10	**161 485 221**	**161 485 231**
20	½	15	**161 485 221**	**161 485 231**
25	¾	20	**161 485 222**	**161 485 232**
32	1	25	**161 485 223**	**161 485 233**
40	1 ¼	32	**161 485 224**	**161 485 234**
50	1 ½	40	**161 485 225**	**161 485 235**
63	2	50	**161 485 226**	**161 485 236**
75	2 ½	65	**161 485 227**	**161 485 237**
90	3	80	**161 485 228**	**161 485 238**
110	4	100	**161 485 229**	**161 485 239**

Spare parts wafer check valves

Spare parts wafer check valve type 369





Seal set (1)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
40	1 ¼	32		161 484 887
50	1 ½	40	161 484 876	161 484 888
63	2	50	161 484 877	161 484 889
75	2 ½	65	161 484 878	161 484 890
90	3	80	161 484 879	161 484 891
110	4	100	161 484 880	161 484 892
140	5	125	161 484 881	161 484 893
160	6	150	161 484 882	161 484 894
225	8	200	161 484 883	161 484 895
280	10	250	161 484 884	161 484 896
315	12	300	161 484 885	161 484 897



Disc set (2)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FKM Code
40	1 ¼	32	161 369 122	161 369 142
50	1 ½	40	161 369 123	161 369 143
63	2	50	161 369 124	161 369 144
75	2 ½	65	161 369 125	161 369 145
90	3	80	161 369 126	161 369 146
110	4	100	161 369 127	161 369 147
140	5	125	161 369 128	161 369 148
160	6	150	161 369 129	161 369 149
225	8	200	161 369 130	161 369 150
280	10	250	161 369 131	161 369 151
315	12	300	161 369 132	161 369 152

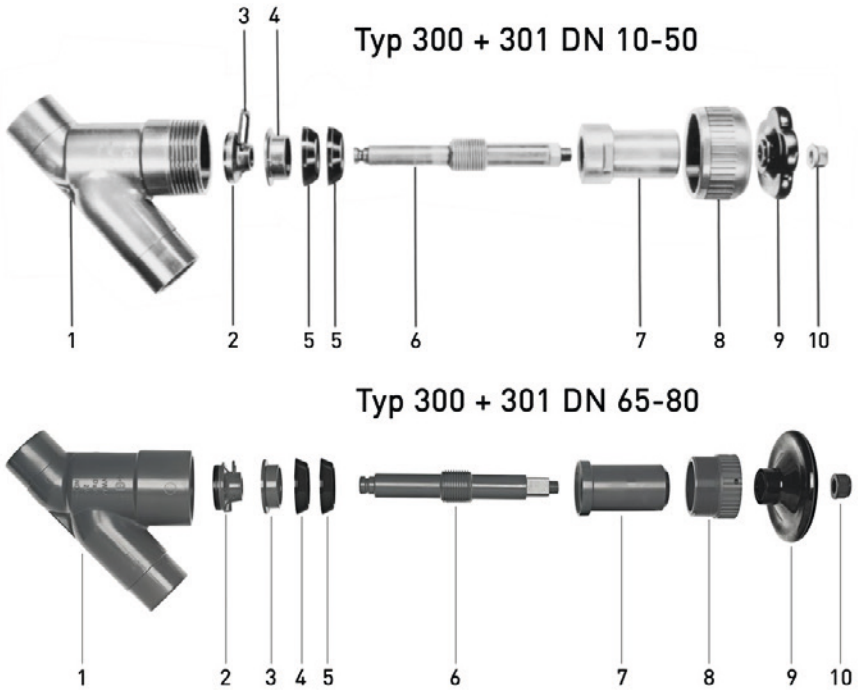


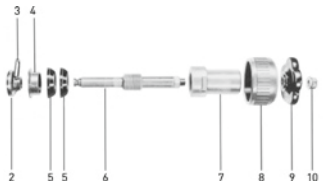
Spring (3)

d (mm)	Size (inch)	DN (mm)	V4A Code	Hastelloy C Code
40	1 ¼	32	**161 484 900**	**161 484 912**
50	1 ½	40	**161 484 901**	**161 484 913**
63	2	50	**161 484 902**	**161 484 914**
75	2 ½	65	**161 484 903**	**161 484 915**
90	3	80	**161 484 904**	**161 484 916**
110	4	100	**161 484 905**	**161 484 917**
140	5	125	**161 484 905**	**161 484 917**
160	6	150	**161 484 907**	**161 484 919**
225	8	200	**161 484 908**	**161 484 920**
280	10	250	**161 484 909**	**161 484 921**
315	12	300	**161 484 910**	**161 484 922**

Spare parts angle seat valves

Spare parts angel seat valves type 300/301





Bonnet complete

Model:

- Bonnet complete consisting of: seal element PVC-U and seating PE, retaining pin, seal support ring, stem, threaded bush, union nut and handwheel nut in PVC-U, cup seal and handwheel in PE (2 -10)

d (mm)	Size (inch)	DN (mm)	PVC-U/PE Code
63	2	50	**161 482 256**
75	2 ½	65	**161 482 257**
90	3	80	**161 482 258**



Body (1)

d (mm)	Size (inch)	DN (mm)	PVC-U metric Code	PVC-U transparent ASTM Code
16	⅜	10	**161 300 251**	
20	½	15	**161 300 301**	**192 480 001**
25	¾	20	**161 300 351**	**192 480 002**
32	1	25	**161 300 401**	**192 301 401**
40	1 ¼	32	**161 300 451**	**192 301 451**
50	1 ½	40	**161 300 501**	**192 301 501**
63	2	50	**161 300 551**	**192 301 551**
75	2 ½	65	**161 300 601**	
90	3	80	**161 300 651**	**192 301 651**



Plug

Model:

- DN65-DN80 (8)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
75	2 ½	65	**161 300 608**
90	3	80	**161 300 658**



Handwheel (9)

d (mm)	Size (inch)	DN (mm)	Code
16	⅜	10	**161 300 259**
20	½	15	**161 300 309**
25	¾	20	**161 300 309**
32	1	25	**161 300 409**
40	1 ¼	32	**161 300 459**
50	1 ½	40	**161 300 509**
63	2	50	**161 300 559**
75	2 ½	65	**161 300 609**
90	3	80	**161 300 659**



Handwheel nut (10)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 300 260**
20	½	15	**721 960 603**
25	¾	20	**721 960 603**
32	1	25	**721 960 603**
40	1 ¼	32	**721 960 604**
50	1 ½	40	**721 960 604**
63	2	50	**721 960 605**
75	2 ½	65	**721 960 606**
90	3	80	**721 960 607**



Stem set

Model:

- Stem set consisting of: stem and threaded bush (6, 7)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 483 062**
20	½	15	**161 483 063**
25	¾	20	**161 483 064**
32	1	25	**161 483 065**
40	1 ¼	32	**161 483 066**
50	1 ½	40	**161 483 067**
63	2	50	**161 483 068**
75	2 ½	65	**161 483 069**
90	3	80	**161 483 070**



Union nut

Model:

- DN10-DN50 (8)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 300 258**
20	½	15	**161 300 308**
25	¾	20	**161 300 358**
32	1	25	**161 300 408**
40	1 ¼	32	**161 300 458**
50	1 ½	40	**161 300 508**
63	2	50	**161 300 558**



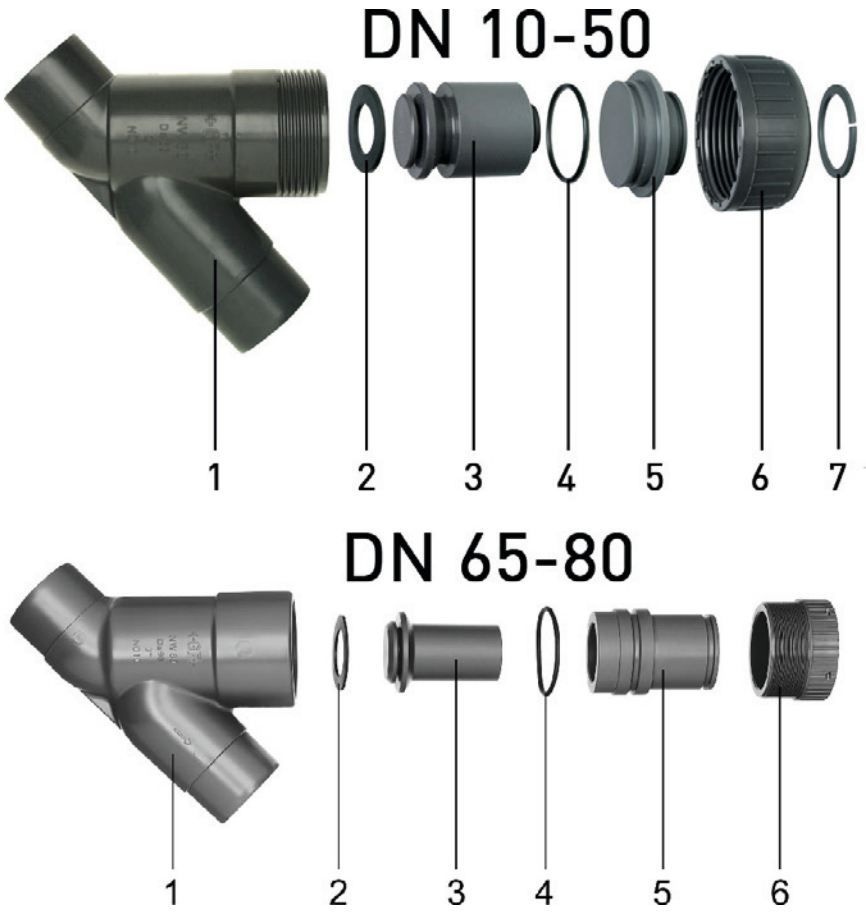
Disc retaining pin set

Model:

- Disc retaining pin set consisting of: seal element and seating, retaining pin, screen support and cup seal (2-5)

d (mm)	Size (inch)	DN (mm)	PE Code	PTFE Code
16	⅜	10	**161 483 076**	**161 483 089**
20	½	15	**161 483 077**	**161 483 090**
25	¾	20	**161 483 078**	**161 483 091**
32	1	25	**161 483 079**	**161 483 092**
40	1 ¼	32	**161 483 080**	**161 483 093**
50	1 ½	40	**161 483 081**	**161 483 094**
63	2	50	**161 483 082**	**161 483 095**
75	2 ½	65	**161 483 083**	**161 483 096**
90	3	80	**161 483 084**	**161 483 097**

Spare parts angle seat valve type 303/304





Body (1)

d (mm)	Size (inch)	DN (mm)	PVC-U Code	PVC-U transparent ASTM Code
16	⅜	10	**161 480 699**	
20	½	15	**161 480 700**	**192 480 001**
25	¾	20	**161 480 701**	**192 480 002**
32	1	25	**161 300 401**	**192 301 401**
40	1 ¼	32	**161 300 451**	**192 301 451**
50	1 ½	40	**161 300 501**	**192 301 501**
63	2	50	**161 300 551**	**192 301 551**
75	2 ½	65	**161 300 601**	
90	3	80	**161 300 651**	**192 301 651**



Closure plug (5)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 480 648**
20	½	15	**161 480 649**
25	¾	20	**161 480 650**
32	1	25	**161 480 651**
40	1 ¼	32	**161 480 652**
50	1 ½	40	**161 480 653**
63	2	50	**161 480 654**
75	2 ½	65	**161 490 412**
90	3	80	**161 490 413**



Plug

Model:

- DN65-DN80 (6)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
75	2 ½	65	**161 305 604**
90	3	80	**161 305 654**



Flat gasket (2)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**161 480 664**	**161 480 673**
20	½	15	**161 480 665**	**161 480 674**
25	¾	20	**161 480 666**	**161 480 675**
32	1	25	**161 480 667**	**161 480 676**
40	1 ¼	32	**161 480 668**	**161 480 677**
50	1 ½	40	**161 480 669**	**161 480 678**
63	2	50	**161 480 670**	**161 480 679**
75	2 ½	65	**161 480 671**	**161 480 680**
90	3	80	**161 480 672**	**161 480 681**



Union nut

Model:

- DN10-DN50 (6)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 300 258**
20	½	15	**161 300 308**
25	¾	20	**161 300 358**
32	1	25	**161 300 408**
40	1 ¼	32	**161 300 458**
50	1 ½	40	**161 300 508**
63	2	50	**161 300 558**



O-ring (4)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
16	⅜	10	**748 410 059**	**749 410 059**
20	½	15	**748 410 106**	**749 410 106**
25	¾	20	**748 410 001**	**749 410 001**
32	1	25	**748 410 007**	**749 410 007**
50	1 ½	40	**748 410 102**	**749 410 102**
63	2	50	**748 410 101**	**749 410 101**
75	2 ½	65	**748 410 119**	**749 410 119**
90	3	80	**748 410 014**	**749 410 014**

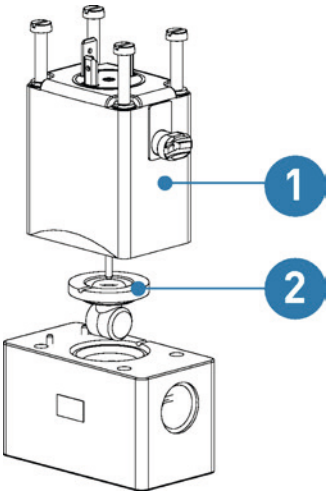


Piston (3)

d (mm)	Size (inch)	DN (mm)	PVC-U Code
16	⅜	10	**161 480 682**
20	½	15	**161 480 683**
25	¾	20	**161 480 684**
32	1	25	**161 480 685**
40	1 ¼	32	**161 480 686**
50	1 ½	40	**161 480 687**
63	2	50	**161 480 688**
75	2 ½	65	**161 480 689**
90	3	80	**161 480 690**

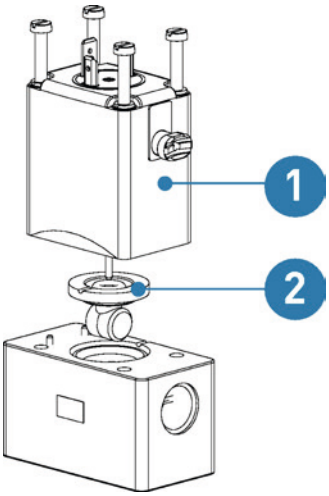
Spare parts solenoid valves

Spare parts solenoid valve type 157



Coil set (1)
For solenoid valve type 157

Voltage	Function	EPDM Code	FKM Code
24V DC	A		**198 808 006**
24V UC	A	**198 808 002**	
230V AC	A	**198 808 004**	



Wear part set (2)
For solenoid valve type 157

e.g. diaphragm

EPDM Code	FKM Code
198 808 012	**198 808 013**

Spare parts solenoid valve type 160/161



Coil set (1)
For solenoid valve type 160/161

24V UC Code	230 V UC Code	230 V/ 50Hz Code
198 808 014	**198 808 015**	**198 808 016**

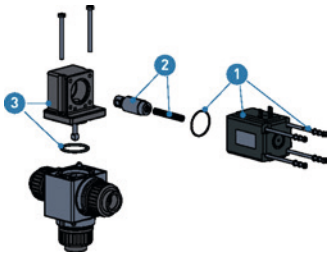


Actuator Set (2)
For solenoid valve type 160/161

Model:

- Including core and pressure spring

Function	UC Code	50Hz Code
A	**198 808 017**	**198 808 021**
B	**198 808 018**	
E	**198 808 019**	
F	**198 808 020**	**198 808 022**



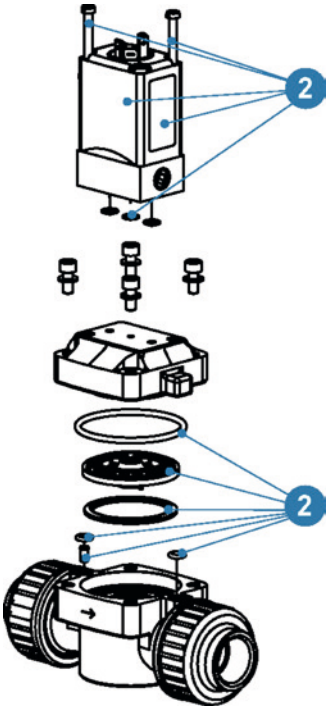
Wear part set (3)
For solenoid valve type 160/161

Model:

- Pre-assembled set with angle flange
- Set already pre-lubricated
- Manual override included

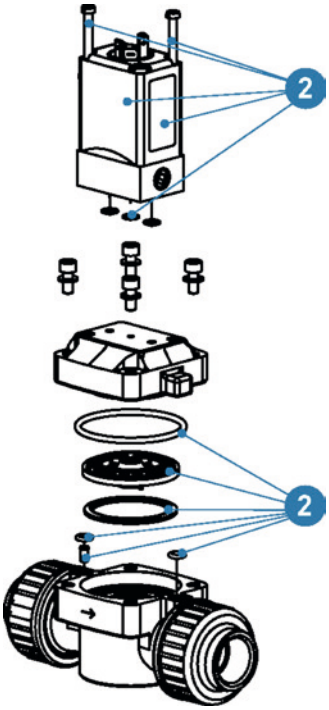
d (mm)	DN (mm)	EPDM Code	FKM Code
16	10	**198 808 023**	**198 808 026**
20	15	**198 808 024**	**198 808 027**
25	20	**198 808 025**	**198 808 028**

Spare parts solenoid valve type 165



Coil set (1)
For solenoid valve type 165

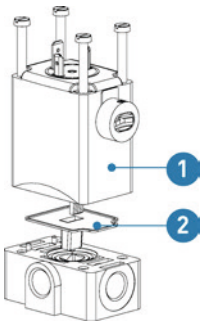
Voltage	EPDM Code	FKM Code
24V DC	**198 808 029**	**198 808 032**
230V AC	**198 808 030**	**198 808 033**
110V AC	**198 808 031**	**198 808 034**



Wear part set (2)
For solenoid valve type 165

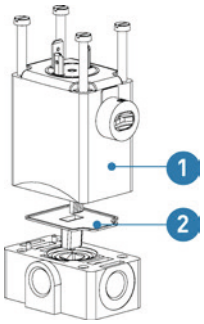
d-d (mm)	DN-DN (mm)	EPDM Code	FKM Code
20 - 25	15 - 20	**198 808 035**	**198 808 038**
32 - 40	25 - 32	**198 808 036**	**198 808 039**
50 - 63	40 - 50	**198 808 037**	**198 808 040**

Spare parts solenoid valve type 166



Coil set (1)
For solenoid valve type 166

Function	Voltage	FKM Code
C	24V UC	**198 808 049**



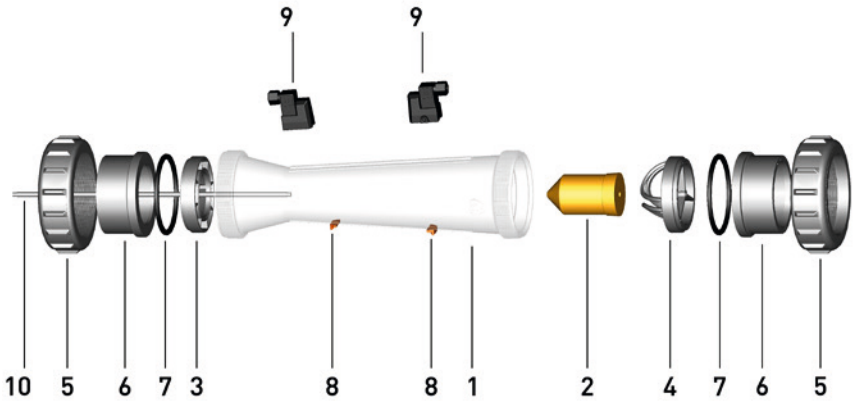
Wear part set (2)
For solenoid valve type 166

e.g. diaphragm

EPDM Code	FKM Code
198 808 053	**198 808 054**

Spare parts variable area flow meters

Variable area flow meter type 335





Taper tube with water scale (1)

- PVC-U transparent

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
32	1	25	50 - 500	**198 335 055**	**198 335 070**	**198 335 085**
32	1	25	100 - 1000	**198 335 056**	**198 335 071**	**198 335 086**
40	1 ¼	32	150 - 1500	**198 335 057**	**198 335 072**	**198 335 087**
40	1 ¼	32	250 - 2500	**198 335 058**	**198 335 073**	**198 335 088**
50	1 ½	40	200 - 2000	**198 335 059**	**198 335 074**	**198 335 089**
50	1 ½	40	300 - 3000	**198 335 060**	**198 335 075**	**198 335 090**
50	1 ½	40	600 - 6000	**198 335 061**	**198 335 076**	**198 335 091**
63	2	50	600 - 6000	**198 335 062**	**198 335 077**	**198 335 092**
63	2	50	1000 - 10000	**198 335 063**	**198 335 078**	**198 335 093**
63	2	50	1500 - 15000	**198 335 064**	**198 335 079**	**198 335 094**
75	2 ½	65	2000 - 20000	**198 335 065**	**198 335 080**	**198 335 095**
75	2 ½	65	3000 - 30000	**198 335 066**	**198 335 081**	**198 335 096**
75	2 ½	65	8000 - 60000	**198 335 067**	**198 335 082**	**198 335 097**



Taper tube without scale (1)

Scale range (l/h)	d (mm)	Size (inch)	DN (mm)	PVC-U transparent Code	Polyamid Code	Polysulfon Code
50 - 500	32	1	25	**198 335 255**	**198 335 270**	**198 335 285**
100 - 1000	32	1	25	**198 335 256**	**198 335 271**	**198 335 286**
150 - 1500	40	1 ¼	32	**198 335 257**	**198 335 272**	**198 335 287**
250 - 2500	40	1 ¼	32	**198 335 258**	**198 335 273**	**198 335 288**
200 - 2000	50	1 ½	40	**198 335 259**	**198 335 274**	**198 335 289**
300 - 3000	50	1 ½	40	**198 335 260**	**198 335 275**	**198 335 290**
600 - 6000	50	1 ½	40	**198 335 261**	**198 335 276**	**198 335 291**
600 - 6000	63	2	50	**198 335 262**	**198 335 277**	**198 335 292**
1000 - 10000	63	2	50	**198 335 263**	**198 335 278**	**198 335 293**
1500 - 15000	63	2	50	**198 335 264**	**198 335 279**	**198 335 294**
2000 - 20000	75	2 ½	65	**198 335 265**	**198 335 280**	**198 335 295**
3000 - 30000	75	2 ½	65	**198 335 266**	**198 335 281**	**198 335 296**
8000 - 60000	75	2 ½	65	**198 335 267**	**198 335 282**	**198 335 297**



top



bottom

DN25 - DN40

Insert PVDF (3,4)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	top (4) Code	bottom (3) Code
32	1	25	50 - 500	**198 335 970**	**198 335 977**
40	1 ¼	32	150 - 1500, 250 - 2500	**198 335 971**	**198 335 978**
50	1 ½	40	200 - 2000, 300 - 3000, 600 - 6000	**198 335 972**	**198 335 979**
63	2	50	600-6000, 1000-10000, 1500-15000	**199 335 974**	**198 335 893**
75	2 ½	65	2000-20000, 3000-30000, 8000-60000	**199 335 975**	**198 335 894**



DN40



DN50



DN65

Float PVDF (2)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)
32 - 40	1 - 1 ¼	25 - 32	50 - 500 / 100 - 1000 / 150 - 1500 / 250 - 2500
50	1 ½	40	200 - 2000 / 300 - 3000 / 600 - 6000
63	2	50	600 - 6000 / 1000 - 10000 / 1500 - 15000
75	2 ½	65	2000 - 20000 / 3000 - 30000
75	2 ½	65	8000 - 60000

Without magnet Code	With magnet (bistabil) Code
198 335 455	**198 335 470**
198 335 457	**198 335 471**
198 335 458	**198 335 472**
198 335 459	**198 335 473**
199 335 460	**199 335 474**



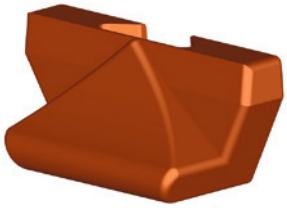
Guiding rod (10)

d (mm)	Size (inch)	Scale range (l/h)	PVDF Code
63	2	600-6000, 1000-10000, 1500-15000	**198 335 984**
75	2 ½	2000-20000, 3000-30000, 8000-60000	**198 335 984**



Insert guiding rod PVDF (for 10)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	Code
63	2	50	600-6000, 1000-10000, 1500-15000	**198 335 953**
75	2 ½	65	2000-20000, 3000-30000, 8000-60000	**198 335 954**

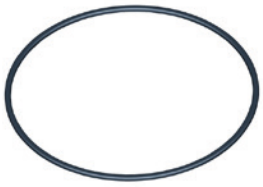


Flow value indicator PS (8)

Model:

- For all dimensions type 335/350

d (mm)	Size (inch)	DN (mm)	Flow value indicator Code
32	1	25	**198 335 990**
40	1 ¼	32	**198 335 990**
50	1 ½	40	**198 335 990**
63	2	50	**198 335 990**
75	2 ½	65	**198 335 990**



O-rings (7)

d (mm)	Size (inch)	DN (mm)	EPDM Code	FKM Code
32	1	25	**748 410 008**	**749 410 008**
40	1 ¼	32	**748 410 009**	**749 410 009**
50	1 ½	40	**748 410 010**	**749 410 010**
63	2	50	**748 410 011**	**749 410 011**
75	2 ½	65	**748 410 014**	**749 410 014**



Exchange kit

Model:

- Exchange kit consisting of: guiding rod (PVDF/V4A), insert guiding rod and insert bottom
- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all scale ranges)

d (mm)	Size (inch)	DN (mm)	Scale range (l/h)	Code PVDF
63	2	50	1500 - 15000	**198 335 895**
75	2 ½	65	2000 - 20000	**198 335 896**
75	2 ½	65	3000 - 30000	**198 335 896**
75	2 ½	65	8000 - 80000	**198 335 896**

Spare part for variable area flow meter SK50-SK73/SK500-SK730



Short version taper tube Polysulfone

- without scale

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500	**198 801 341**
16	10	SK 51 / 510	**198 801 342**
16	10	SK 52 / 520	**198 801 343**
20	15	SK 60 / 600	**198 801 449**
20	15	SK 61 / 610	**198 801 450**
20	15	SK 62 / 620	**198 801 451**
32	25	SK 70 / 700	**198 801 445**
32	25	SK 71 / 710	**198 801 338**
32	25	SK 72 / 720	**198 801 339**
32	25	SK 73 / 730	**198 801 340**



Short version taper tube PVC-U transparent

- without scale

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500	**198 803 790**
16	10	SK 51 / 510	**198 803 791**
16	10	SK 52 / 520	**198 803 792**
20	15	SK 60 / 600	**198 803 793**
20	15	SK 61 / 610	**198 803 794**
20	15	SK 62 / 620	**198 803 795**
32	25	SK 70 / 700	**198 803 796**
32	25	SK 71 / 710	**198 803 797**
32	25	SK 72 / 720	**198 803 798**
32	25	SK 73 / 730	**198 803 799**



Short version float PVDF
Without magnet

d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 51 / 52	**198 806 219**
20	15	SK 60 / 61 / 62	**198 806 220**
32	25	SK 70 / 71 / 72 / 73	**198 806 221**

Short version float PVDF
With magnet bistable



d (mm)	DN (mm)	Type	Code
16	10	SK 500 / 510 / 520	**198 806 222**
20	15	SK 600 / 610 / 620	**198 806 223**
32	25	SK 700 / 710 / 720 / 730	**198 806 224**

Short version float PTFE
Without magnet



d (mm)	DN (mm)	Type	Code
32	25	SK 73	**198 807 166**

Short version top insert PVDF



d (mm)	DN (mm)	Type	Code
16	10	SK 50 / 500; 51 / 510; 52 / 520	**198 807 188**
20	15	SK 60 / 600; 61 / 610; 62 / 620	**198 807 187**
32	25	SK 70 / 700; 71 / 710; 72 / 720; 73 / 730	**198 807 182**

General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

1 General

1.1 These General Conditions shall apply to all Products supplied by Georg Fischer Piping Systems Limited («Georg Fischer») to the Purchaser.
They shall also apply to all future business even when no express reference is made to them.

1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.

1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

3.1 Georg Fischer's product range is subject to change.

3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.

4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.

5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc .

6 Local Laws and Regulations, Export Controls

6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.

6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms 2010 of the ICC, or latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import- licences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.

7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.

8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser.
In particular, payment shall still be made when unessential items are still outstanding provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.

9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.

9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.

10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:

a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.

b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially unpractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.
Should the effect of force majeure exceed a period of six (6) months, either party may cancel the contract forthwith.
Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting the refrom, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.

c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.

10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one (1) month which equally is not met.
The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.

10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.

10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.

10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to a penalty amounting to 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved. Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage than the penalty forfeited.

11 Packing

If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms 2010 ICC, or latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.

12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.

13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.

13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.
In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.

13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six (6) days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.

14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within seven (7) working days after discovery, in any event within the agreed warranty period.

14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.

14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

15.1 At the written request of the Purchaser, Georg Fischer undertakes to repair or replace at its discretion, as quickly as possible and free of charge, all Products supplied which demonstrably suffer from faulty design, materials or workmanship, from faulty operating or installation instructions or which become defective or unusable due to faulty advice.
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.
Replaced parts shall become property of Georg Fischer, unless Georg Fischer waives such claim.

15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.

15.3 The Purchaser shall be entitled to rescind the contract or to demand a reduction of the contract price if
- the repair or replacement of the defective Product is impossible
- the defective Product is not repaired or replaced within a reasonable period
- Georg Fischer refuses the repair or replacement or if for reasons attributable to Georg Fischer the repair or replacement is delayed.

15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.

15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.

15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.

15.7 In case of Products for use in domestic installations or in utilities
- Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object up to CHF 1'000'000 per occurrence.
- warranty or damage claims - contrary to Section 15.6 – are time-barred five (5) years from the date of installation or seven (7) years from the production date, whichever is earlier.

16 Limitation of Liability

The rights and remedies of the customer shall be exclusively governed by these General Conditions of Supply and shall be in lieu of any remedies at law. All further claims for damages, reduction of the purchase price, termination of or rescission of the contract are excluded.
In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit, third party recovery claims and other direct or indirect or consequential damages.
This limitation of liability equally applies to the extent Georg Fischer is liable for acts or omissions of its employees or third parties engaged for the performance of its obligations. It does not apply in case unlawful intent or gross negligence on the part of Georg Fischer's management and in case of Georg Fischer's statutory liability, in particular under applicable product liability laws.

17 Severability

Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

18 Place of Performance and Jurisdiction

18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.

18.2 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.

18.3 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.
Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.

03/2011

Excellence in Flow

Visit our webpage to get in touch with your local specialist:
www.georgfischer.com/locations

The information and technical data (altogether "Data") herein are not binding, unless explicitly confirmed in writing.
The Data neither constitutes any expressed, implied or warranted characteristics, nor guaranteed properties or a guaranteed durability. All Data is subject to modification. The General Terms and Conditions of Sale of Georg Fischer Piping Systems apply.

GFDO_PR_00019b_EN (02.26)
© Georg Fischer Piping Systems Ltd
8201 Schaffhausen/Switzerland, 2026