

## Product range

# ABS

Pipe, Fittings & Valves for Cooling,  
Chilled Water, Water Treatment,  
Marine and Drinking Water



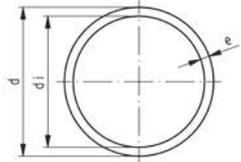


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# ABS Inch

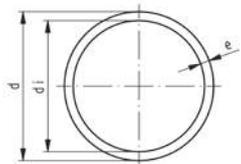
## Pipes



### Pipe ABS grey class E 15 bar at 20°C

- Dimensions: BS 5391
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

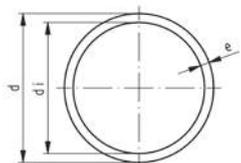
d (inch)	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)
3/8	15	<b>169 018 080</b>	0.086	1.7	13.6
1/2	15	<b>169 018 081</b>	0.126	2.0	17.3
3/4	15	<b>169 018 082</b>	0.198	2.5	21.7
1	15	<b>169 018 083</b>	0.313	3.1	27.2
1 1/4	15	<b>169 018 084</b>	0.494	3.9	34.4
1 1/2	15	<b>169 018 085</b>	0.650	4.5	39.3
2	15	<b>169 018 086</b>	1.002	5.6	49.1
3	15	<b>169 018 088</b>	2.174	8.3	72.3
4	15	<b>169 018 089</b>	3.592	10.6	93.1



### Pipe ABS grey class D 12 bar at 20°C

- Dimensions: BS 5391
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

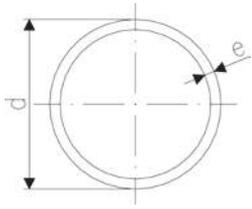
d (inch)	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)
6	12	<b>169 018 067</b>	6.503	12.8	142.7



### Pipe ABS metric Nominal pressure PN10 (at 20°C)

- Dimensions: BS 5391
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length

d (inch)	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)
1	9	<b>169 018 033</b>	0.206	2.0	29.4
1 1/4	9	<b>169 018 034</b>	0.325	2.5	37.2
1 1/2	9	<b>169 018 035</b>	0.423	2.8	42.7
2	9	<b>169 018 036</b>	0.659	3.6	41.9
3	9	<b>169 018 038</b>	1.410	5.2	78.5
2 1/2	10	<b>169 017 087</b>	1.183	4.5	66.0
4	9	<b>169 018 039</b>	2.339	6.7	100.9
5	10	<b>169 017 091</b>	4.489	8.3	122.8
6	9	<b>169 018 042</b>	5.123	9.9	148.5
8	9	<b>169 018 045</b>	8.566	12.7	193.7

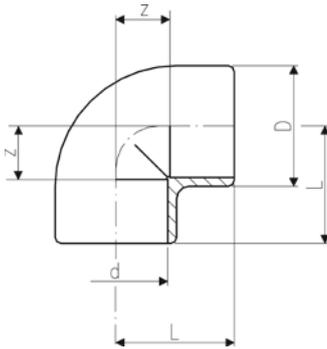


### Pipe ABS grey class 7 (T) 12 bar at 20°C

- Dimensions: BS 5391
- Pipe length: 6m with plain ends
- Minimum order quantity: 1 length
- Thick wall pipe to allow for threading

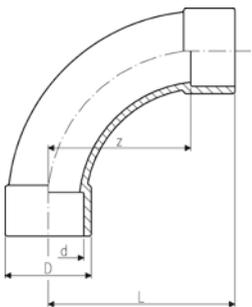
d (inch)	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)
½	12	<b>169 018 106</b>	0.209	3.6	14.3
¾	12	<b>169 018 107</b>	0.272	3.6	19.7
1	12	<b>169 018 108</b>	0.415	4.3	24.7
1 ¼	12	<b>169 018 109</b>	0.640	5.3	31.0
1 ½	12	<b>169 018 110</b>	0.828	6.0	33.7
2	12	<b>169 018 111</b>	1.251	7.2	45.9

## Solvent Cement Fittings



### Elbow 90° ABS BS

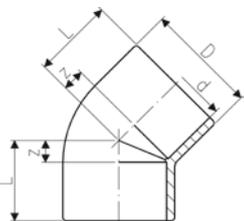
Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
½	15	<b>729 101 106</b>	10	0.017	28	30	13
¾	15	<b>729 101 107</b>	10	0.027	34	37	16
1	15	<b>729 101 108</b>	10	0.033	40	42	19
1 ¼	15	<b>729 101 109</b>	10	0.060	52	51	22
1 ½	15	<b>729 101 110</b>	10	0.090	58	56	26
2	15	<b>729 101 111</b>	10	0.162	73	68	32
2 ½	10	<b>729 100 112</b>	5	0.300	90	84	40
3	15	<b>729 101 113</b>	5	0.444	107	97	46
4	15	<b>729 101 115</b>	2	1.008	137	122	59
5	10	<b>729 100 116</b>	8	1.258	162	146	70



### Bend 90° ABS BS

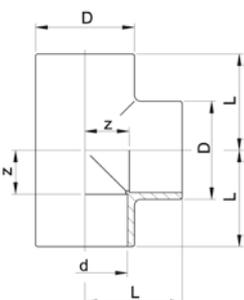
Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
½	15	<b>729 001 106</b>	10	0.021	26.5	58	40
¾	15	<b>729 001 107</b>	10	0.035	35.0	71	50
1	15	<b>729 001 108</b>	10	0.052	43.0	88	64
1 ¼	15	<b>729 001 109</b>	30	0.155	54.0	109	80
1 ½	15	<b>729 001 110</b>	5	0.236	64.0	131	100
2	15	<b>729 001 111</b>	4	0.388	76.0	163	126
2 ½	10	<b>729 000 112</b>	5	0.595	90.0	194	150
3	15	<b>729 001 113</b>	5	1.339	113.0	231	180
4	15	<b>729 001 115</b>	2	1.954	137.0	284	220

### Elbow 45° ABS BS



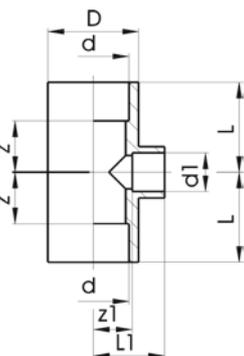
d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	closest inch (inch)	z (mm)	D (mm)	L (mm)
	½	15	<b>729 151 106</b>	10	0.010		7	28	24
	¾	15	<b>729 151 107</b>	10	0.015		8	33	29
	1	15	<b>729 151 108</b>	10	0.027		10	41	33
	1 ¼	15	<b>729 151 109</b>	10	0.046		11	51	40
	1 ½	15	<b>729 151 110</b>	5	0.068		11	57	41
	2	15	<b>729 151 111</b>	10	0.134		15	72	51
75	2 ½	10	<b>729 150 112</b>	5	0.225	2 ½	17	89	61
	3	15	<b>729 151 113</b>	5	0.407		21	109	72
	4	15	<b>729 151 115</b>	5	0.714		26	135	89
140	5	10	<b>729 150 116</b>	1	1.175	5	32	162	108

### Tee 90° equal PVC-U Inch BS



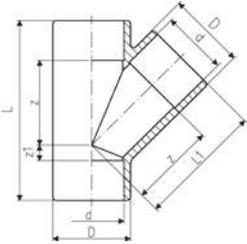
Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)
¾	15	<b>721 201 105</b>	10	0.018	25	25	10
½	15	<b>721 201 106</b>	10	0.036	30	30	13
¾	15	<b>721 201 107</b>	10	0.051	35	37	16
1	15	<b>721 201 108</b>	10	0.079	43	43	19
1 ¼	15	<b>721 201 109</b>	10	0.105	50	51	22
1 ½	15	<b>721 201 110</b>	5	0.157	57	56	26
2	15	<b>721 201 111</b>	5	0.294	72	68	32
2 ½	16	<b>721 200 112</b>	5	0.476	87	83	39
3	15	<b>721 201 113</b>	5	0.847	107	97	46
4	15	<b>721 201 115</b>	8	1.864	138	122	59
5	16	<b>721 200 116</b>	4	3.410	169	147	71
6	15	<b>721 201 117</b>	1	5.674	202	176	86
8	9	<b>721 201 120</b>	1	10.742	256	233	114

### Tee 90° reducing ABS BS



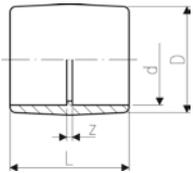
PN (bar)	Size (inch)	d1 (inch)	Code	SP	Weight (kg)	z1 (mm)	z (mm)	L1 (mm)	L (mm)	D (mm)
15	¾	½	<b>729 201 134</b>	10	0.026	14	14	30	33	33
15	1	½	<b>729 201 141</b>	10	0.042	17	17	33	39	41
15	1	¾	<b>729 201 138</b>	10	0.043	17	17	36	39	41
15	1 ¼	¾	<b>729 201 151</b>	1	0.110	22	30	51	51	53
15	1 ¼	1	<b>729 201 147</b>	0	0.120	22	27	51	51	53
15	1 ½	½	<b>729 201 009</b>	5	0.159	29	29	44	59	62
15	1 ½	1	<b>729 201 164</b>	5	0.158	25	29	50	59	62
15	2	¾	<b>729 201 011</b>	10	0.246	31	37	53	73	77
15	2	1	<b>729 201 178</b>	5	0.288	31	37	56	73	77
15	4	3	<b>729 201 137</b>	0	0.001	59	72	122	122	138

### Tee 45° ABS BS



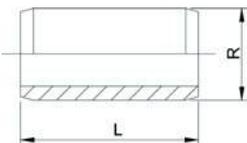
PN (bar)	Size (inch)	Code	SP Weight (kg)	D (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)
9	½	729 251 106	10	0.026	28	68	46	30
9	¾	729 251 107	10	0.039	33	83	55	36
9	1	729 251 108	10	0.068	41	99	67	45
9	1 ¼	729 251 109	10	0.109	50	118	82	55
9	1 ½	729 251 110	5	0.207	60	140	97	67
9	2	729 251 111	10	0.372	74	175	123	87
6		729 250 112	5	0.605	91	207	145	101

### Socket ABS Inch BS



d (mm)	PN (bar)	Size (inch)	d (inch)	Code	SP Weight (kg)	D (mm)	L (mm)	z (mm)
15	15	½	½	729 911 106	10	0.008	27	38
15	15	¾	¾	729 911 107	10	0.011	33	45
15	15	1	1	729 911 108	10	0.017	41	51
15	15	1 ¼	1 ¼	729 911 109	10	0.036	51	60
15	15	1 ½	1 ½	729 911 110	10	0.051	58	64
15	15	2	2	729 911 111	5	0.095	72	78
75	10		2 ½	729 910 112	20	0.145	87	92
15	15	3	3	729 911 113	10	0.262	104	108
15	15	4	4	729 911 115	5	0.470	134	135
140	10		5	729 910 116	2	0.813	162	159

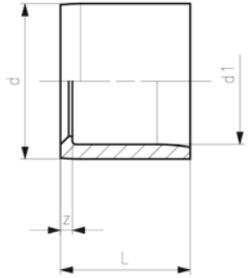
### Barrel nipple ABS metric



#### Model:

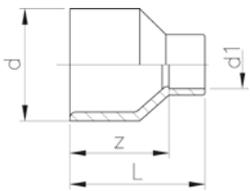
- With solvent cement spigots on both sides
- For quick connections between fittings
- For the shortest possible distance between fittings
- Overall length L = 2 x socket length

d (mm)	d (inch)	Size (inch)	PN (bar)	Code	SP Weight (kg)	L (mm)	L closest inch (inch)
	¾	¾	10	729 901 905	0	0.002	28
	½	½	10	729 901 906	0	0.004	32
	¾	¾	10	729 901 907	0	0.008	38
	1	1	10	729 901 908	0	0.015	44
	1 ¼	1 ¼	10	729 901 909	0	0.027	52
	1 ½	1 ½	10	729 901 910	0	0.050	62
	2	2	10	729 901 911	0	0.098	76
75	2 ½	2 ½	10	729 900 912	30	0.095	88
	3	3	10	729 901 913	0	0.266	102
	4	4	10	729 901 914	0	0.476	122



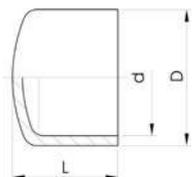
### Reducing bush short pattern ABS BS

d (inch)	d1 (inch)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	l (mm)
½	¾	½	15	<b>729 901 334</b>	10	0.002	2	18
¾	1	¾	15	<b>729 901 337</b>	10	0.003	3	21
1	1 ½	1	15	<b>729 901 342</b>	10	0.015	6	24
1	¾	1	15	<b>729 901 341</b>	10	0.008	3	24
1 ¼	½	1 ¼	15	<b>729 901 348</b>	100	0.019	11	29
1 ¼	¾	1 ¼	15	<b>729 901 347</b>	10	0.019	8	29
1 ¼	1	1 ¼	15	<b>729 901 346</b>	10	0.016	5	29
1 ½	½	1 ½	15	<b>729 901 355</b>	10	0.026	13	30
1 ½	¾	1 ½	15	<b>729 901 354</b>	10	0.027	10	30
1 ½	1	1 ½	15	<b>729 901 353</b>	10	0.029	6	30
1 ½	1 ¼	1 ½	15	<b>729 901 352</b>	10	0.010	2	30
2	¾	2	15	<b>729 901 361</b>	10	0.046	16	37
2	1	2	15	<b>729 901 360</b>	10	0.048	13	37
2	1 ¼	2	15	<b>729 901 359</b>	10	0.053	8	37
2	1 ½	2	15	<b>729 901 358</b>	10	0.038	6	37
2 ½	2	2 ½	15	<b>729 901 364</b>	10	0.073	8	44
3	1	3	15	<b>729 901 374</b>	10	0.130	27	51
3	1 ½	3	15	<b>729 901 372</b>	10	0.135	21	51
3	2	3	15	<b>729 901 371</b>	10	0.138	14	51
3	2 ½	3	15	<b>729 901 370</b>	10	0.095	6	51
4	3	4	15	<b>729 901 381</b>	20	0.259	13	64



### Reducing bush long pattern ABS BS

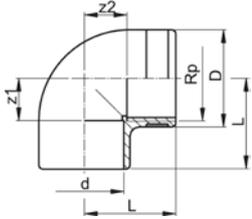
d-d (inch)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	l (mm)
6 - 4	6	15	<b>729 911 389</b>	6	1.004	133	197



### Cap ABS BS

d (inch)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	l (mm)
½	½	15	<b>729 961 106</b>	10	0.007	30	25
¾	¾	15	<b>729 961 107</b>	10	0.011	37	30
1	1	15	<b>729 961 108</b>	10	0.019	44	34
1 ¼	1 ¼	15	<b>729 961 109</b>	10	0.033	55	41
1 ½	1 ½	15	<b>729 961 110</b>	10	0.038	62	44
2	2	15	<b>729 961 111</b>	5	0.100	78	54
2 ½		10	<b>729 960 112</b>	5	0.115	87	65
3	3	15	<b>729 961 113</b>	10	0.235	112	77
4	4	15	<b>729 961 115</b>	5	0.584	145	101
5		10	<b>729 960 116</b>	10	0.880	163	114

# Adaptor Fittings

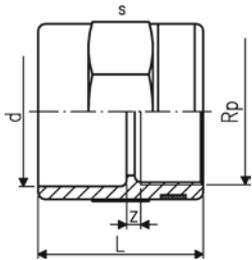


## Elbow 90° ABS BS Rp

### Model:

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to ABS

d (inch)	Thread Type	Size (inch)	PN (bar)	Code	SP Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	
½	Rp	½	15	<b>729 101 206</b>	10	0.019	12	11	30	27
¾	Rp	¾	15	<b>729 101 207</b>		0.025	15	15	35	33
1	Rp	1	15	<b>729 101 208</b>	10	0.047	18	19	45	39

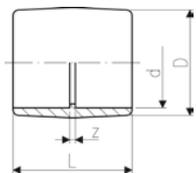


## Socket ABS BS Rp

### Model:

- With solvent cement socket BS Inch and parallel female thread Rp
- Reinforcing ring stainless (A2)
- Connection to plastic or metal threads
- Do not use thread sealing pastes that are harmful to ABS

Thread Type	Size (inch)	PN (bar)	d (inch)	Code	SP Weight (kg)	z (mm)	s (mm)	l (mm)	
Rp	½	15	½	<b>729 911 006</b>	10	0.018	4	32	35
Rp	¾	15	¾	<b>729 911 007</b>	10	0.024	3	36	40
Rp	1	15	1	<b>729 911 008</b>	10	0.038	3	36	45
Rp	1 ¼	15	1 ¼	<b>729 911 009</b>	10	0.055	3	55	51
Rp	1 ½	15	1 ½	<b>729 911 010</b>	10	0.106	8	65	69
Rp	2	15	2	<b>729 911 011</b>	5	0.172	8	8	69

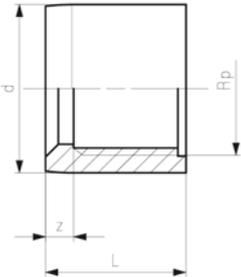


## Adaptor socket ABS metric BS

### Model:

- With BS Inch and metric solvent cement sockets

d (inch)	d (mm)	Size (inch)	PN (bar)	Code	SP Weight (kg)	D (mm)	L (mm)	z (mm)	
½	20	½	10	<b>729 913 106</b>	1	0.010	27	38	5
¾	25	¾	10	<b>729 913 107</b>	1	0.016	33	45	5
1	32	1	10	<b>729 913 108</b>	1	0.025	41	51	5
1 ¼	40	1 ¼	10	<b>729 913 109</b>	1	0.045	51	60	5
1 ½	50	1 ½	10	<b>729 913 110</b>	1	0.070	59	65	4
2	63	2	10	<b>729 913 111</b>	1	0.130	75	79	5
2 ½	75	2 ½	10	<b>729 910 112</b>	20	0.145	87	92	4
3	90	3	10	<b>729 913 113</b>	2	0.365	104	108	6
4	110	4	10	<b>729 913 115</b>	1	0.630	134	135	7

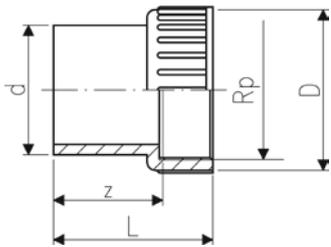


### Reducing bush ABS BS Rp

**Model:**

- With solvent cement spigot BS and parallel female thread Rp
- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to ABS

Thread Type	Size (inch)	PN (bar)	d (inch)	Code	SP Weight (kg)	z (mm)	L (mm)
Rp	3/8	15	1/2	729 901 534	10	0.003	3 18
Rp	1/2	15	3/4	729 901 537	10	0.011	5 21
Rp	3/4	15	1	729 901 541	10	0.009	4 24
Rp	1/2	15	1	729 901 542	10	0.015	8 24

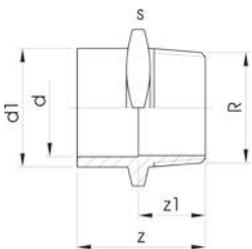


### Adaptor ABS BS Rp

**Model:**

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

d (inch)	Thread	Size (inch)	PN (bar)	Code	SP Weight (kg)	z (mm)	s (mm)	l (mm)
1/2	Rp	1/2	15	729 901 406	10	0.010	21	28 37
3/4	Rp	3/4	15	729 901 407	10	0.025	23	34 41
1	Rp	1	15	729 901 408	10	0.037	27	42 48
1 1/4	Rp	1 1/4	15	729 901 409	10	0.059	33	52 56
1 1/2	Rp	1 1/2	15	729 901 410	10	0.073	38	62 61
2	Rp	2	15	729 901 411	10	0.153	47	77 74



### Adaptor socket nipple ABS BS R

**Model:**

- With solvent cement spigot/reducing socket and taper male thread R
- Do not use thread sealing pastes that are harmful to ABS

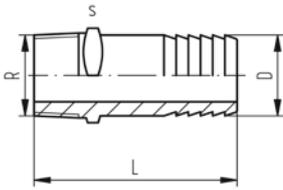
Thread Type	Size (inch)	PN (bar)	d (inch)	d1 (inch)	Code	SP Weight (kg)	z (mm)	z1 (mm)	s (mm)
R	3/4	15	1/2	3/4	729 911 557	10	0.018	48	31 36
R	1	15	3/4	1	729 911 558	10	0.031	55	35 46



### Hose connector ABS R

**Model:**

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



Thread Type	Size (inch)	PN (bar)	d (inch)	Code	SP Weight (kg)	D (mm)	s (mm)	L (mm)	
R	½	10	½	<b>729 961 706</b>	10	0.007	14	22	70
R	¾	10	¾	<b>729 961 707</b>	10	0.017	20	27	80
R	1	10	1	<b>729 961 708</b>	5	0.033	27	36	90

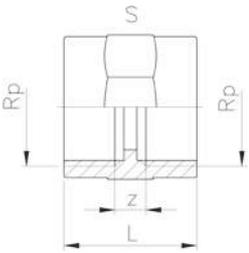
## Threaded Fittings



### Threaded socket ABS 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 ABS



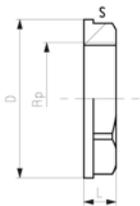
Thread Type	Size (inch)	PN (bar)	Code	SP Weight (kg)	z (mm)	L (mm)	s (mm)	
Rp	½	10	<b>729 910 606</b>	10	0.019	9	35	32
Rp	¾	10	<b>729 910 607</b>	10	0.022	9	39	36
Rp	1	10	<b>729 910 608</b>	10	0.041	11	45	46



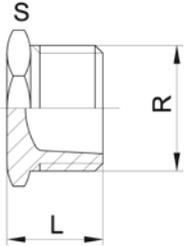
### Backnut ABS BS

**Model:**

- Parallel female thread Rp



Thread Type	Size (inch)	PN (bar)	Code	SP Weight (kg)	D (mm)	s (mm)	
Rp	½	15	<b>169 280 002</b>	1	0.010	37	31
Rp	¾	15	<b>169 280 003</b>	1	0.021	42	36
Rp	1	15	<b>169 280 004</b>	0	0.024	55	46
Rp	1 ¼	15	<b>169 280 005</b>	0	0.025	59	50
Rp	1 ½	15	<b>169 280 006</b>	1	0.034	70	60
Rp	2	15	<b>169 280 007</b>	1	0.065	94	79



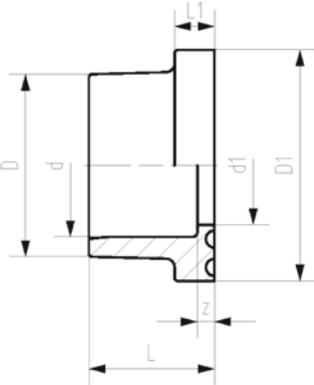
### Plug ABS R

**Model:**

- With taper male thread R
- Do not use thread sealing pastes that are harmful to ABS

Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	s (mm)	L (mm)
R	1/2	10	<b>729 961 906</b>	10	0.008	27	25
R	3/4	10	<b>729 961 907</b>	10	0.014	36	29
R	1	10	<b>729 961 908</b>	10	0.022	41	32

## Flange Adaptors



### Flange adaptor ABS Combined jointing face flat and serrated BS

**Model:**

- Gasket: flange gasket EPDM code no. 748 400 306-320, FKM code no. 749 400 306-320

Size (inch)	d (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)
1/2	1/2	15	<b>729 791 106</b>	10	0.007	27	34	16	21	6	3
3/4	3/4	15	<b>729 791 107</b>	10	0.011	33	41	21	24	7	3
1	1	15	<b>729 791 108</b>	10	0.018	41	50	28	27	7	3
1 1/4	1 1/4	15	<b>729 791 109</b>	10	0.027	50	61	36	32	8	3
1 1/2	1 1/2	15	<b>729 791 110</b>	10	0.043	61	73	45	33	8	3
2	2	15	<b>729 791 111</b>	5	0.083	76	90	57	41	9	3
	2 1/2	10	<b>729 790 112</b>	10	0.116	91	106	69	47	10	3
3	3	15	<b>729 791 113</b>	20	0.187	108	125	82	56	11	5
4	4	15	<b>729 791 115</b>	20	0.309	136	155	107	69	12	5
	5	10	<b>729 790 116</b>	6	0.535	165	188	132	81	14	5

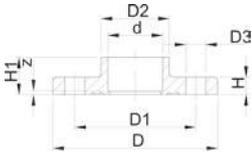


### Full face flange ABS Inch BS Drilled to universal standard

**Model:**

- In accordance with BS 10, DIN EN 1092 and ASME B 16.5
- Jointing face serrated
- It is recommended to use backing flanges in conjunction with all Full Face Flanges
- All full face flanges are manufactured with outside diameter to BS EN 1092
- Solvent cement socket BS inch
- For pressure ratings over 2bar backing flanges must be used

AL: number of holes



d (inch)	DN (mm)	PN (bar)	Code	SP	Weight (kg)	D3 (mm)	D2 (mm)	D1 (mm)	AL	H1 (mm)	z	D (mm)	H (mm)
1/2	15	10	<b>729 733 106</b>	100	0.064	15	27	67	4	21	3	95	10
3/4	20	10	<b>729 733 107</b>	20	0.083	15	33	73	4	24	8	105	10
1	25	10	<b>729 733 108</b>	50	0.097	15	41	83	4	27	3	115	10
1 1/4	32	10	<b>729 733 109</b>	30	0.149	15	50	88	4	32	3	140	10
1 1/2	40	10	<b>729 733 110</b>	14	0.180	15	61	98	4	33	3	150	10
2	50	10	<b>729 733 111</b>	18	0.230	18	77	115	4	40	3	165	10
3	80	10	<b>729 733 113</b>	8	0.238	18	108	146	4	56	5	200	12
4	100	10	<b>729 733 114</b>	2	0.771	18	136	178	8	69	5	220	17
6	150	10	<b>729 733 117</b>	2	1.486	22	198	235	8	96	5	285	22

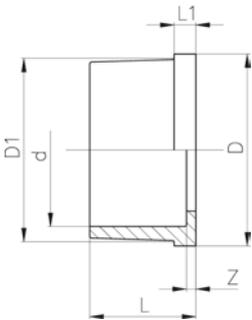
## Unions



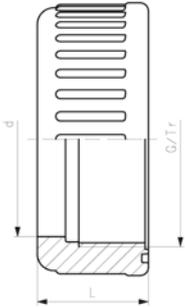
### Union end ABS BS

**Model:**

- Solvent cement socket BS inch



Size (inch)	PN (bar)	Code	SP	Weight (kg)	D1 (mm)	L (mm)	D (mm)	z
3/8	15	<b>729 601 105</b>	500	0.004	22	19	24	3
1/2	15	<b>729 601 106</b>	2000	0.006	27	21	30	3
3/4	15	<b>729 601 107</b>	1800	0.010	36	24	38	3
1	15	<b>729 601 108</b>	1000	0.015	41	27	44	3
1 1/4	15	<b>729 601 109</b>	300	0.027	53	32	56	3
1 1/2	15	<b>729 601 110</b>	384	0.003	59	33	62	3
2	15	<b>729 601 111</b>	250	0.062	74	40	78	3



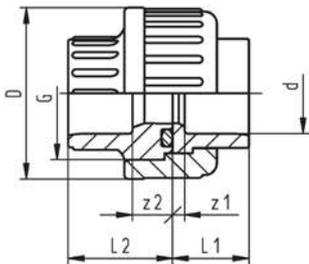
### Union nut ABS

**Model:**

- For Union 729 510 106-114 and 729 511 105-112

d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	L (mm)	G/Tr (inch)	D (mm)	closest inch (inch)
16		10	<b>729 890 405</b>	10	0.009	21	3/4		3/8
20		10	<b>729 890 406</b>	10	0.048	23	1	28	1/2
25		10	<b>729 890 407</b>	10	0.046	25	1 1/4	36	3/4
32		10	<b>729 890 408</b>	10	0.025	27	1 1/2	42	1
40		10	<b>729 890 409</b>	10	0.060	30	2	53	1 1/4
50		10	<b>729 890 410</b>	10	0.100	34	2 1/4	59	1 1/2
63		10	<b>729 890 411</b>	10	0.147	38	2 3/4	74	2
75	2 1/2	10	<b>729 690 012</b>	40	0.189	40	Tr108x5	92	2 1/2
90		10	<b>729 690 013</b>	25	0.271	43	Tr128x5	110	3
110		10	<b>729 690 014</b>	20	0.430	48	Tr154x6	133	4

## Adaptor Unions

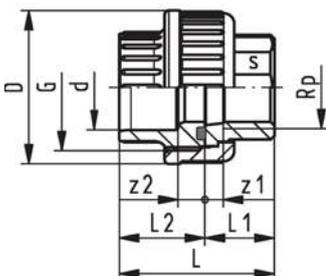


### Adaptor union ABS BS PVC-U metric

**Model:**

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS BS inch
- Union End: Solvent cement socket PVC-U metric
- Gasket: O-ring EPDM code no. 748 410 005-011

d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L1 (mm)	L2 (mm)
16	3/8	15	<b>729 523 105</b>	10	0.075	3	13	35	19	24
20	1/2	15	<b>729 523 106</b>	10	0.120	3	13	43	21	26
25	3/4	15	<b>729 523 107</b>	10	0.190	3	14	53	24	29
32	1	15	<b>729 523 108</b>	10	0.250	3	15	60	27	32
40	1 3/4	15	<b>729 523 109</b>	10	0.400	3	19	74	32	38
50	1 1/2	15	<b>729 523 110</b>	5	0.510	3	26	83	33	40
63	2	15	<b>729 523 111</b>	10	0.287	3	33	103	40	46

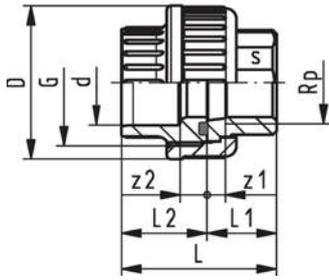


### Adaptor union ABS BS malleable iron galvanised Rp

**Model:**

- Union Nut: ABS
- Union Bush: Solvent cement socket BS Inch
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011

Thread Type	Size (inch)	PN	d (inch)	Code	SP	Weight (kg)
Rp	1/2	15	1/2	<b>729 531 306</b>	10	0.132
Rp	3/4	15	3/4	<b>729 531 307</b>	5	0.226
Rp	1	15	1	<b>729 531 308</b>	5	0.282
Rp	1 1/4	15	1	<b>729 531 309</b>	2	0.476
Rp	1 1/2	15	1 1/2	<b>729 531 310</b>	2	0.498
Rp	2	15	2	<b>729 531 311</b>	5	0.795



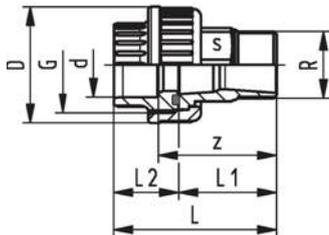
z2	z1	s	L2	G	L1	L	D
(mm)	(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)
10	9	25	26	1	22	48	43
10	7	31	29	1 1/4	22	51	51
10	9	38	33	1 1/2	26	58	58
12	12	48	39	2	31	69	72
14	14	54	46	2 1/4	33	78	83
18	11	67	58	2 3/4	35	91	100



### Adaptor union ABS BS malleable iron galvanised R

#### Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket BS Inch
- Union End: Malleable iron with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011



Thread Type	Size	PN	d	Code	SP	Weight
	(inch)	(bar)	(inch)			(kg)
R	1/2	15	1/2	729 531 806	10	0.137
R	3/4	15	3/4	729 531 807	5	0.226
R	1	15	1	729 531 808	5	0.322
R	1 1/4	15	1 1/4	729 531 809	2	0.554
R	1 1/2	15	1 1/2	729 531 810	2	0.654
R	2	15	2	729 531 811	8	0.935

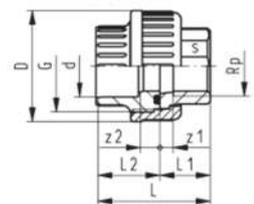
s	z	L	L2	L1	D	G
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
25	50	66	26	40	43	1
31	53	72	29	43	51	1 1/4
38	58	80	33	48	58	1 1/2
48	69	95	39	57	72	2
54	73	104	46	59	83	2 1/4
67	80	118	58	62	100	2 3/4



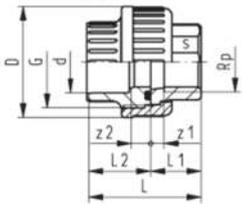
### Adaptor union ABS BS brass Rp

#### Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS BS inch
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011



Thread Type	Size	PN	d	Code	SP	Weight
	(inch)	(bar)	(inch)			(kg)
Rp	1/2	15	1/2	729 551 506	10	0.084
Rp	3/4	15	3/4	729 551 507	5	0.134
Rp	1	15	1	729 551 508	5	0.157
Rp	1 1/4	15	1 1/4	729 551 509	2	0.327
Rp	1 1/2	15	1 1/2	729 551 510	2	0.452
Rp	2	15	2	729 551 511	5	0.722



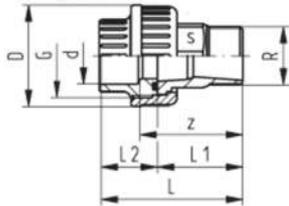
z2	s	z1	G	L	L2	L1	D
(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)
9	25	7	1	48	26	22	43
8	30	9	1 ¼	54	29	25	51
9	36	8	1 ½	60	33	27	58
11	46	10	2	70	39	31	72
11	55	13	2 ¼	75	41	35	83
12	65	14	2 ¾	88	48	40	100



### Adaptor union ABS BS brass R

#### Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS BS inch
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011



Thread Type	Size	PN	d	Code	SP	Weight
	(inch)	(bar)	(inch)			(kg)
R	½	15	½	<b>729 551 906</b>	10	0.123
R	¾	15	¾	<b>729 551 907</b>	5	0.185
R	1	15	1	<b>729 551 908</b>	5	0.283
R	1 ¼	15	1 ¼	<b>729 551 909</b>	2	0.503
R	1 ½	15	1 ½	<b>729 551 910</b>	2	0.666
R	2	15	2	<b>729 551 911</b>	2	1.029

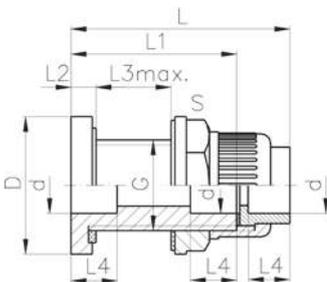
L	L2	L1	D	G	z	s
(mm)	(mm)	(mm)	(mm)	(inch)	(mm)	(mm)
63	26	37	43	1	37	25
71	29	42	51	1 ¼	42	30
79	33	46	58	1 ½	55	36
91	39	52	72	2	60	46
97	41	56	83	2 ¼	65	55
115	48	67	100	2 ¾	77	65



### Tank connector ABS Inch BS

#### Model:

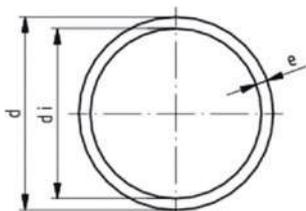
- End connection: union with solvent cement socket BS Inch
- Gasket: flat gasket EPDM



d	PN	Code	Weight	d1	L	L1	L2	L3	L4	G	s
(inch)	(bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)
¾	15	<b>169 250 225</b>	0.073	44	85	65	10	32	14	¾	33
½	15	<b>169 250 226</b>	0.131	56	89	67	11	30	16	1	46
¾	15	<b>169 250 227</b>	0.194	65	97	72	12	32	19	1 ¼	50
1	15	<b>169 250 228</b>	0.001	70	103	75	12	33	22	1 ½	60
1 ¼	15	<b>169 250 229</b>	0.446	95	111	78	12	32	26	2	80
1 ½	15	<b>169 250 230</b>	0.455	95	119	82	13	32	31	2 ¼	80
2	15	<b>169 250 231</b>	0.530	115	131	87	13	33	38	2 ¾	83

# ABS Metric

## Pipes

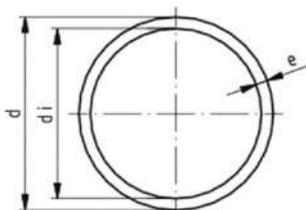


### Pipe ABS Nominal pressure PN10 (at 20°C)

**Model:**

- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)
20	10	20014B601	0.100	1.65	16.7
25	10	20014B602	0.148	1.95	21.1
32	10	20014B603	0.211	2.10	27.7
40	10	20014B604	0.331	2.70	34.6
50	10	20014B605	0.506	3.30	43.4
63	10	20014B606	0.809	4.20	54.5
75	10	20014B607	1.125	4.90	65.2
90	10	20014B608	1.612	6.00	78.0
110	10	20014B609	2.392	7.20	95.6
140	10	20014B610	3.880	9.20	121.6
160	10	20014B611	5.046	10.40	139.1
200	10	20014B612	7.984	13.00	173.9
225	10	20014B613	10.149	14.70	195.6



### Pipe ABS Nominal pressure PN6 (at 20°C)

**Model:**

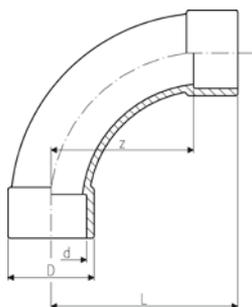
- Colour: RAL 7001, gravel grey
- Pipe length: 5m, with plain ends
- Minimum order quantity: 1 length

d (mm)	PN (bar)	Code	Weight (kg/m)	e (mm)	di (mm)
250	6	20014B614	8.299	9.6	230.8
280	6	20014B615	10.346	10.7	258.6
315	6	20014B616	13.173	12.1	290.8

# Solvent Cement Fittings

## Bend 90° ABS metric

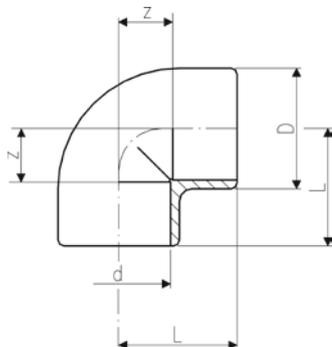
- Radius = 2 d



d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)	closest inch (inch)
20		16	729 000 106	10	0.027	27	58	40	1/2
25		16	729 000 107	10	0.039	35	69	50	3/4
32		10	729 000 108	10	0.056	38	86	64	1
40		10	729 000 109	30	0.099	54	109	80	1 1/4
50		10	729 000 110	10	0.229	61	131	100	1 1/2
63		10	729 000 111	4	0.391	76	164	126	2
75	2 1/2	10	729 000 112	5	0.595	90	194	150	2 1/2
90		10	729 000 113	5	1.044	113	231	180	3
110		10	729 000 114	5	2.101	137	281	220	4
140	5	10	729 000 116	2	3.996	168	356	280	5

## Elbow 90° ABS metric

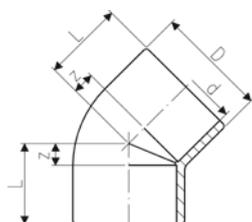
- >d225 - maximum operating temperature: +40°C



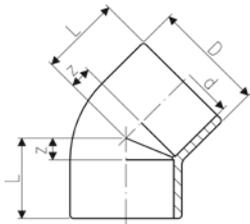
d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)	closest inch (inch)
20		16	729 100 106	10	0.010	26	27	11	1/2
25		16	729 100 107	10	0.018	31	33	14	3/4
32		10	729 100 108	10	0.033	40	39	17	1
40		10	729 100 109	10	0.055	49	47	21	1 1/4
50		10	729 100 110	10	0.098	61	57	26	1 1/2
63		10	729 100 111	10	0.186	76	72	33	2
75	2 1/2	10	729 100 112	5	0.300	90	84	40	2 1/2
90		10	729 100 113	5	0.432	110	97	46	3
110		10	729 100 114	3	0.769	136	116	55	4
140	5	10	729 100 116	8	1.258	162	146	70	5
160		10	729 100 117	1	2.209	185	166	80	6
200		10	729 100 119	1	3.372	225	207	101	8

## Elbow 45° ABS metric

- >d225 - maximum operating temperature: +40°C



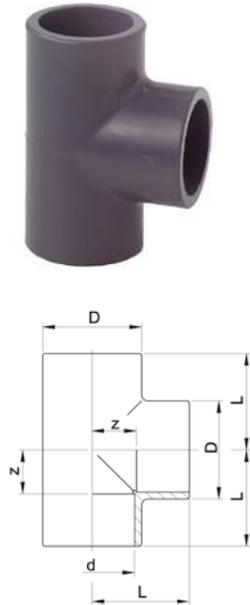
d (mm)	d (inch)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	closest inch (inch)	z (mm)	D (mm)	L (mm)
20			16	729 150 106	10	0.009	1/2	5	25	21
25			16	729 150 107	10	0.013	3/4	6	31	25
32			10	729 150 108	10	0.026	1	8	40	30
40			10	729 150 109	10	0.044	1 1/4	10	49	36
50			10	729 150 110	5	0.079	1 1/2	12	61	43
63			10	729 150 111	10	0.143	2	14	76	52
75	2 1/2	2 1/2	10	729 150 112	5	0.225	2 1/2	17	89	61
90			10	729 150 113	4	0.363	3	20	107	71
110			10	729 150 114	10	0.567	4	28	131	89



d (mm)	d (inch)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	closest inch (inch)	z (mm)	D (mm)	L (mm)
140	5	5	10	<b>729 150 116</b>	1	1.175	5	32	162	108
160			10	<b>729 150 117</b>	4	1.713	6	36	185	122
200			10	<b>729 150 119</b>	1	2.546	8	43	225	149
225			10	<b>729 150 120</b>	1	3.162	8	49	250	168

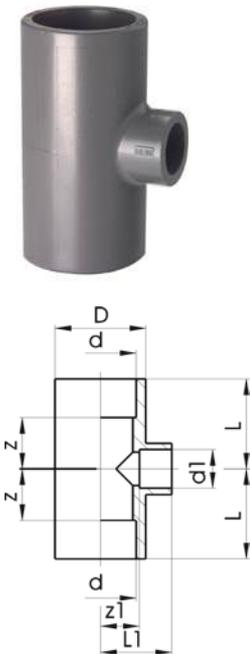
### Tee 90° ABS metric

- >d225 - maximum operating temperature: +40°C



d (mm)	Size (inch)	PN (bar)	d (inch)	Code	SP	Weight (kg)	closest inch (inch)	z (mm)	D (mm)	L (mm)
20		16		<b>729 200 106</b>	10	0.015	½	11	25	27
25		16		<b>729 200 107</b>	10	0.025	¾	14	31	33
32		10		<b>729 200 108</b>	10	0.042	1	17	40	39
40		10		<b>729 200 109</b>	10	0.078	1 ¼	21	49	47
50		10		<b>729 200 110</b>	5	0.134	1 ½	26	61	57
63		10		<b>729 200 111</b>	5	0.255	2	34	76	72
75	2 ½	10	2 ½	<b>729 200 112</b>	6	0.404	2 ½	40	90	84
90		10		<b>729 200 113</b>	4	0.664	3	47	107	98
110		10		<b>729 200 114</b>	6	1.010	4	55	133	116
140	5	10	5	<b>729 200 116</b>	1	2.570	5	71	169	147
160		10		<b>729 200 117</b>	4	3.752	6	81	193	167
200		10		<b>729 200 119</b>	1	4.446	8	101	225	207
225		10		<b>729 200 120</b>	1	6.860	8	114	256	233

### Tee 90° reducing ABS metric



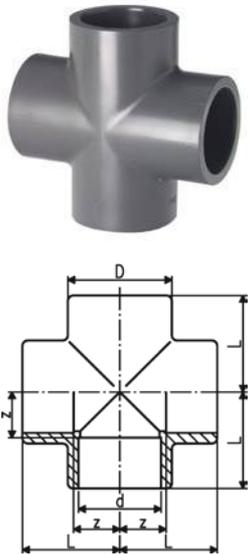
d (mm)	d1 (mm)	PN (bar)	Size (inch)	Code	SP	Weight (kg)	z1 (mm)	z (mm)	Closest inch run-branch-run (inch)	L (mm)	L1 (mm)	D (mm)
25	20	16		<b>729 200 134</b>	10	0.030	14	14	¾ - ½ - ¾	33	30	33
32	25	10		<b>729 200 138</b>	10	0.049	17	17	1 - ¾ - 1	39	36	41
40	25	10		<b>729 200 151</b>	10	0.083	23	23	1 ¼ - ¾ - 1 ¼	49	42	50
40	32	10		<b>729 200 147</b>	10	0.085	23	23	1 ¼ - 1 - 1 ¼	49	45	50
50	25	10		<b>729 200 010</b>	5	0.138	28	28	1 ½ - ¾ - 1 ½	59	47	62
50	32	10		<b>729 200 164</b>	5	0.141	28	28	1 ½ - 1 - 1 ½	59	50	62
63	25	10		<b>729 200 011</b>	10	0.246	34	34	2 - ¾ - 2	73	53	77
63	32	10		<b>729 200 178</b>	5	0.256	34	35	2 - 1 - 2	73	56	77
63	50	10		<b>729 200 170</b>	5	0.270	34	35	2 - 1 ½ - 2	73	65	77

### Tee 45° ABS metric



d (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	closest inch (inch)	z (mm)	z1 (mm)
20		10	<b>729 250 106</b>	10	0.027	28	68	46	½	30	6
25		10	<b>729 250 107</b>	10	0.043	33	83	55	¾	36	9
32		10	<b>729 250 108</b>	10	0.073	41	99	67	1	45	10
40		10	<b>729 250 109</b>	10	0.123	50	118	82	1 ¼	56	10
50		10	<b>729 250 110</b>	8	0.202	60	140	97	1 ½	66	12
63		10	<b>729 250 111</b>	5	0.334	74	175	123	2	85	14
75	2 ½	6	<b>729 250 112</b>	5	0.605	91	207	145	2 ½	101	18
90		6	<b>729 250 113</b>	1	0.961	107	245	173	3	122	20
110		6	<b>729 250 114</b>	3	1.907	134	298	210	4	149	27

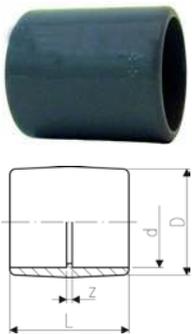
### Cross ABS metric



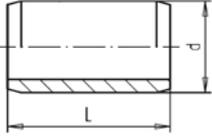
PN (bar)	d (mm)	Code	SP	Weight (kg)	closest inch (inch)	z (mm)	D (mm)	L (mm)
10	32	<b>729 300 108</b>	10	0.070	1	17	43	39
10	63	<b>729 300 111</b>	5	0.359	2	34	79	72
10	90	<b>729 300 113</b>	5	0.937	3	48	106	97

### Socket ABS metric

- >d225 - maximum operating temperature: +40°C



d (mm)	PN (bar)	Code	SP	Weight (kg)	D (mm)	L (mm)	z (mm)	closest inch (inch)
20	16	<b>729 910 106</b>	10	0.007	26	35	3	½
25	16	<b>729 910 107</b>	10	0.012	32	41	3	¾
32	10	<b>729 910 108</b>	10	0.020	40	47	3	1
40	10	<b>729 910 109</b>	10	0.035	49	55	3	1 ¼
50	10	<b>729 910 110</b>	10	0.060	61	65	3	1 ½
63	10	<b>729 910 111</b>	10	0.110	76	79	3	2
75	10	<b>729 910 112</b>	20	0.145	87	92	4	2 ½
90	10	<b>729 910 113</b>	10	0.241	104	107	5	3
110	10	<b>729 910 114</b>	5	0.566	131	132	5	4
140	10	<b>729 910 116</b>	2	0.813	162	159	7	5
160	10	<b>729 910 117</b>	2	1.176	183	180	8	6
200	10	<b>729 910 119</b>	1	1.511	221	221	9	8
225	10	<b>729 910 120</b>	1	2.537	253	248	10	8

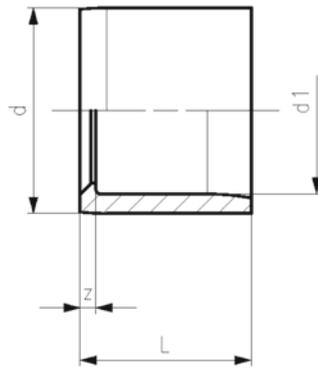


### Barrel nipple ABS metric

**Model:**

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

d (mm)	Size (inch)	PN (bar)	d (inch)	Code	Weight (kg)	closest inch (inch)	L (mm)
20		16		<b>729 900 906</b>	0.008	½	32
25		16		<b>729 900 907</b>	0.008	¾	38
32		10		<b>729 900 908</b>	0.007	1	44
40		10		<b>729 900 909</b>	0.016	1 ¼	52
50		10		<b>729 900 910</b>	0.032	1 ½	62
63		10		<b>729 900 911</b>	0.059	2	76
75	2 ½	10	2 ½	<b>729 900 912</b>	0.095	2 ½	88
90		10		<b>729 900 913</b>	0.161	3	102
110		10		<b>729 900 914</b>	0.282	4	122

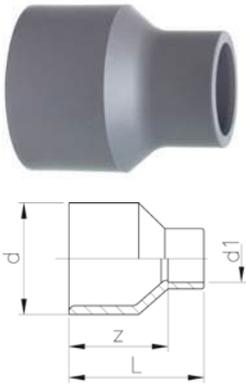


### Reducing bush ABS metric

**Model:**

- With solvent cement spigot and socket metric

	d (mm)	d1 (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z (mm)	L (mm)
*	25	20		16	<b>729 900 337</b>	10	0.005	3	19
*	32	20		10	<b>729 900 342</b>	10	0.011	6	22
*	32	25		10	<b>729 900 341</b>	10	0.008	4	22
	40	20		10	<b>729 900 348</b>	10	0.016	10	26
	40	25		10	<b>729 900 347</b>	10	0.016	7	26
*	40	32		10	<b>729 900 346</b>	10	0.012	4	26
	50	20		10	<b>729 900 355</b>	10	0.026	15	31
	50	25		10	<b>729 900 354</b>	10	0.011	12	31
	50	32		10	<b>729 900 353</b>	10	0.035	9	31
*	50	40		10	<b>729 900 352</b>	10	0.022	5	31
	63	32		10	<b>729 900 360</b>	10	0.060	16	38
	63	40		10	<b>729 900 359</b>	10	0.051	12	38
*	63	50		10	<b>729 900 358</b>	10	0.043	7	36
	75	50	2 ½	10	<b>729 900 365</b>	10	0.082	13	44
*	75	63	2 ½	10	<b>729 900 364</b>	10	0.061	7	44
	90	50		10	<b>729 900 372</b>	10	0.143	20	51
	90	63		10	<b>729 900 371</b>	10	0.129	14	51
*	90	75		10	<b>729 900 370</b>	10	0.100	7	51
	110	63		10	<b>729 900 378</b>	5	0.231	24	61
*	110	90		10	<b>729 900 376</b>	5	0.196	10	61
*	125	110		10	<b>700 244 660</b>	10	0.356	8	69
*	140	110	5	10	<b>729 900 385</b>	5	0.459	15	76
	160	110		10	<b>729 900 390</b>	6	0.662	25	86
*	160	140		10	<b>729 900 388</b>	5	0.410	10	86
	200	160		10	<b>729 900 392</b>	1	0.820	20	106
	225	160		10	<b>729 900 396</b>	2	1.651	33	119
*	225	200		10	<b>729 900 181</b>		1.018	13	119



### Reducing bush long ABS metric

**Model:**

- With solvent cement spigot and socket metric

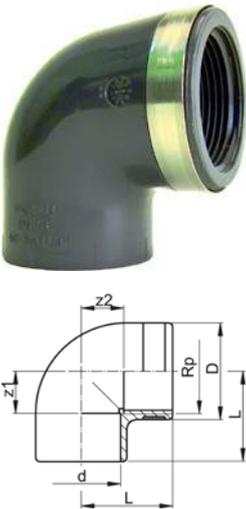
d (mm)	d1 (mm)	Size (inch)	PN (bar)	Code	SP	Weight (kg)	Closest inch (inch)	z (mm)	L (mm)
32	20		10	<b>729 910 342</b>	10	0.014	1 - ½	30	46
40	25		10	<b>729 910 347</b>	10	0.026	1 ¼ - ¾	36	55
50	25		10	<b>729 910 354</b>	10	0.038	1 ½ - ¾	44	63
63	32		10	<b>729 910 360</b>	5	0.077	2 - 1	54	76
75	40	2 ½	10	<b>729 910 366</b>	5	0.115	2 ½ - 1 ¼	62	88
90	63		10	<b>729 910 371</b>	5	0.215	3 - 2	74	112



### Cap ABS metric

d (mm)	PN (bar)	Code	SP	Weight (kg)	closest inch (inch)	D (mm)	L (mm)
20	16	<b>729 960 106</b>	10	0.007	½	30	25
25	16	<b>729 960 107</b>	10	0.013	¾	37	30
32	10	<b>729 960 108</b>	10	0.019	1	44	34
40	10	<b>729 960 109</b>	10	0.034	1 ¼	55	41
50	10	<b>729 960 110</b>	10	0.046	1 ½	64	44
63	10	<b>729 960 111</b>	5	0.088	2	80	54
75	10	<b>729 960 112</b>	5	0.115	2 ½	87	65
90	10	<b>729 960 113</b>	5	0.218	3	112	77
110	10	<b>729 960 114</b>	5	0.499	4	145	101
140	10	<b>729 960 116</b>	10	0.880	5	163	114
160	10	<b>729 960 117</b>	2	1.140	6	188	130

## Adaptor Fittings

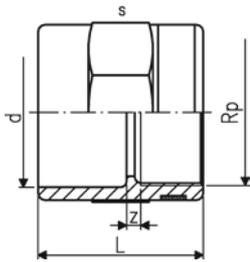


### Elbow 90° ABS metric Rp

**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 ABS

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)	z1 (mm)	z2 (mm)	D (mm)	L (mm)
20	Rp	½	10	<b>729 100 206</b>	10	0.018	13	11	30	27
25	Rp	¾	10	<b>729 100 207</b>	10	0.028	16	15	35	33
32	Rp	1	10	<b>729 100 208</b>	10	0.047	19	19	45	39
40	Rp	1 ¼	10	<b>729 100 209</b>	10	0.088	23	27	55	50
50	Rp	1 ½	10	<b>729 100 210</b>	5	0.128	27	36	62	58
63	Rp	2	10	<b>729 100 211</b>	5	0.233	33	46	75	73

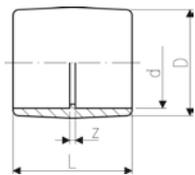


### Socket ABS metric Rp

**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 ABS

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP Weight (kg)	closest inch (inch)	z (mm)	L (mm)	s (mm)	
20	Rp	½	10	<b>729 910 206</b>	10	0.020	½	4	35	32
25	Rp	¾	10	<b>729 910 207</b>	10	0.025	¾	3	40	36
32	Rp	1	10	<b>729 910 208</b>	10	0.045	1	3	45	46
40	Rp	1 ¼	10	<b>729 910 209</b>	10	0.067	1 ¼	5	51	55
50	Rp	1 ½	10	<b>729 910 210</b>	10	0.099	1 ½	7	59	65
63	Rp	2	10	<b>729 910 211</b>	5	0.167	2	7	69	80

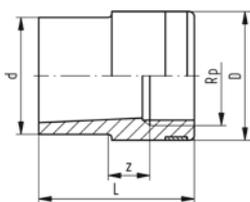


### Adaptor socket ABS metric BS

**Model:**

- With BS Inch and metric solvent cement sockets

d (inch)	d (mm)	Size (inch)	PN (bar)	Code	SP Weight (kg)	D (mm)	L (mm)	z (mm)	
½	20	½	10	<b>729 913 106</b>	1	0.010	27	38	5
¾	25	¾	10	<b>729 913 107</b>	1	0.016	33	45	5
1	32	1	10	<b>729 913 108</b>	1	0.025	41	51	5
1 ¼	40	1 ¼	10	<b>729 913 109</b>	1	0.045	51	60	5
1 ½	50	1 ½	10	<b>729 913 110</b>	1	0.070	59	65	4
2	63	2	10	<b>729 913 111</b>	1	0.130	75	79	5
2 ½	75	2 ½	10	<b>729 910 112</b>	20	0.145	87	92	4
3	90	3	10	<b>729 913 113</b>	2	0.365	104	108	6
4	110	4	10	<b>729 913 115</b>	1	0.630	134	135	7

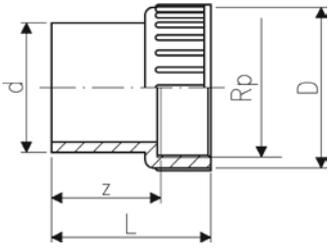


### Reducing bush ABS metric Rp

**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 ABS

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP Weight (kg)	z (mm)	D (mm)	L (mm)	
20	Rp	¾	10	<b>729 910 434</b>	10	0.012	7	25	35
25	Rp	½	10	<b>729 910 437</b>	10	0.017	7	30	41
32	Rp	¾	10	<b>729 910 441</b>	10	0.025	15	35	48
40	Rp	1	10	<b>729 910 446</b>	10	0.046	20	45	56
50	Rp	1 ¼	10	<b>729 910 452</b>	10	0.077	20	55	66
63	Rp	1 ½	10	<b>729 910 458</b>	5	0.120	10	62	77

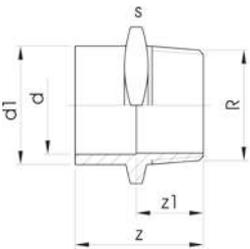


### Adaptor ABS metric Rp

#### 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 ABS

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP Weight (kg)	z (mm)	L (mm)	D (mm)
20	Rp	½	10	<b>729 900 406</b>	10	0.008	21	37
25	Rp	¾	10	<b>729 900 407</b>	10	0.014	23	41
32	Rp	1	10	<b>729 900 408</b>	10	0.026	27	48
40	Rp	1 ¼	10	<b>729 900 409</b>	10	0.044	33	56
50	Rp	1 ½	10	<b>729 900 410</b>	10	0.076	38	61
63	Rp	2	10	<b>729 900 411</b>	5	0.127	47	74

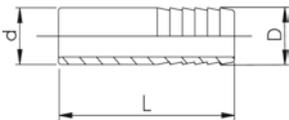


### Adaptor socket nipple ABS metric R

#### Model:

- With solvent cement spigot/socket metric and taper male thread R
- Do not use thread sealing pastes that are harmful to ABS

d (mm)	Thread Type	Size (inch)	PN (bar)	d1 (mm)	Code	SP Weight (kg)	closest inch (inch)	z (mm)	z1 (mm)	s (mm)
16	R	½	10	20	<b>729 910 556</b>	10	⅜	42	28	32
20	R	¾	10	25	<b>729 910 557</b>	10	½	47	31	36
25	R	1	10	32	<b>729 910 558</b>	10	¾	54	35	46
32	R	1 ¼	10	40	<b>729 910 559</b>	10	1	60	38	55
40	R	1 ½	10	50	<b>729 910 560</b>	10	1 ¼	66	40	65
50	R	2	10	63	<b>729 910 561</b>	5	1 ½	78	47	80

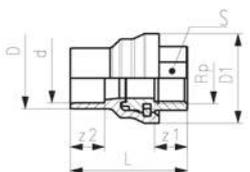


### Hose connector ABS metric

#### Model:

- With solvent cement spigot metric and parallel hose connection

d (mm)	PN (bar)	Code	SP Weight (kg)	closest inch (inch)	D (mm)	L (mm)
20	10	<b>729 960 406</b>	10	½	20	73
25	10	<b>729 960 407</b>	10	¾	25	79
32	10	<b>729 960 408</b>	10	1	30	89
32	10	<b>729 960 508</b>	10	1	32	89
40	10	<b>729 960 409</b>	10	1 ¼	40	100



### Adaptor fitting ABS metric brass Rp

#### Model:

- Adaptor fitting equally suitable as socket and spigot
- Brass with parallel female thread Rp
- Gasket: O-ring EPDM

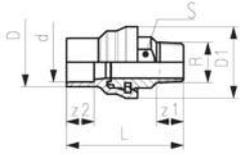
d (mm)	Thread Type	Size (inch)	PN (bar)	D (mm)	Code	SP Weight (kg)	D1 (mm)	L (mm)	z1 (mm)	z2 (mm)	S (mm)
20	Rp	½	10	25	<b>729 950 106</b>	10	40	55	17	17	25
25	Rp	¾	10	32	<b>729 950 107</b>	5	50	65	19	19	30
32	Rp	1	10	40	<b>729 950 108</b>	5	59	77	22	23	36



### Adaptor fitting ABS metric brass R

**Model:**

- Adaptor fitting equally suitable as socket and spigot
- Brass with taper male thread R
- Gasket: O-ring EPDM



d (mm)	Thread Type	Size (inch)	PN (bar)	D (mm)	Code	SP	Weight (kg)	L (mm)	z1 (mm)	z2 (mm)	S (mm)	D1 (mm)
20	R	½	10	25	<b>729 950 606</b>	10	0.124	70	17	17	25	40
25	R	¾	10	32	<b>729 950 607</b>	5	0.221	83	19	19	30	50
32	R	1	10	40	<b>729 950 608</b>	5	0.336	96	22	23	36	59

## Flange Adaptors



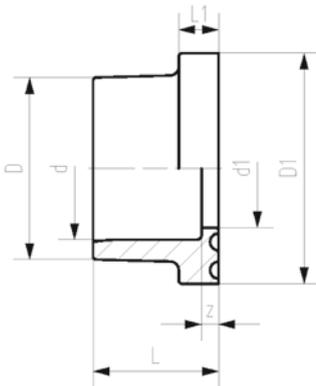
### Flange adaptor ABS metric

**Model:**

- Counter part: same flange adaptor
- Gasket: profile flange gasket EPDM code no. 748 440 706-723, FKM code no. 749 440 706-723
- Gasket: flat gasket EPDM code no. 748 400 306-323
- Joining faces flat/serrated
- >d225 - maximum operating temperature: +40°C

**Note:**

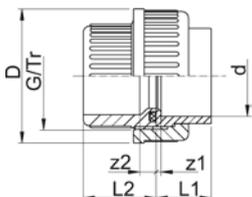
\* bevel on pipe may be needed if used with butterfly valve type 037/038/039



d (mm)	DN (mm)	PN (bar)	d (inch)	Code	SP	Weight (kg)
20	15	10		<b>729 790 106</b>	10	0.007
25	20	10		<b>729 790 107</b>	10	0.015
32	25	10		<b>729 790 108</b>	10	0.020
40	32	10		<b>729 790 109</b>	10	0.028
50	40	10		<b>729 790 110</b>	10	0.038
63	50	10		<b>729 790 111</b>	10	0.068
75	65	10	2 ½	<b>729 790 112</b>	10	0.116
90	80	10		<b>729 790 113</b>	10	0.185
110	100	10		<b>729 790 114</b>	10	0.305
140	125	10	5	<b>729 790 116</b>	6	0.535
*	160	150		<b>729 790 117</b>	2	0.821
*	200	200		<b>729 790 119</b>	2	1.123
225	200	10		<b>729 790 120</b>	2	1.330

d (mm)	D (mm)	D1 (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	closest inch (inch)
20	27	34	16	21	6	3	½
25	33	41	21	24	7	3	¾
32	41	50	28	27	7	3	1
40	50	61	36	30	8	3	1 ¼
50	61	73	45	34	8	3	1 ½
63	76	90	57	41	9	3	2
75	91	106	69	47	10	3	2 ½
90	108	125	82	56	11	5	3
110	131	150	102	66	12	5	4
140	165	188	132	81	14	5	5
*	160	188	152	91	16	5	6
*	200	224	192	112	24	6	8
225	248	274	217	125	25	6	8

# Unions

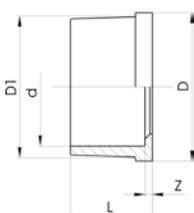


## Union ABS metric

### Model:

- Union End: Solvent cement socket metric
- Union bush: Solvent cement socket metric
- Gasket: O-ring EPDM code no. 748 410 006-016

d	Size	PN	Code	SP	Weight	L1	D	L2	z1	z2	closest	G/Tr
(mm)	(inch)	(bar)			(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	inch	(inch)
											(inch)	
20		10	<b>729 510 106</b>	10	0.035	21	43	26	4	10	½	1
25		10	<b>729 510 107</b>	10	0.044	24	53	29	5	10	¾	1 1/4
32		10	<b>729 510 108</b>	10	0.064	27	60	33	5	10	1	1 1/2
40		10	<b>729 510 109</b>	10	0.130	31	74	39	3	12	1 ¼	2
50		10	<b>729 510 110</b>	5	0.154	33	83	46	3	14	1 ½	2 1/4
63		10	<b>729 510 111</b>	5	0.258	40	103	58	3	18	2	2 3/4
75	2 ½	10	<b>729 510 112</b>	2	0.469	47	135	62	3	18	2 ½	Tr 108x5
90		10	<b>729 510 313</b>	2	0.701	56	158	69	5	18	3	Tr 128x5
110		10	<b>729 510 114</b>	1	1.069	66	158	72	5	11	4	Tr 154x5



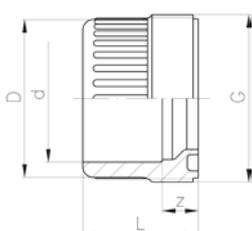
## Union end ABS metric

### Model:

- Solvent cement socket metric
- For union 729 510 106-114, 729 510 156-164

\*Only for variable area flow meters

d	Size	PN	Code	SP	Weight	closest	z	L	D	D1	
(mm)	(inch)	(bar)			(kg)	inch	(mm)	(mm)	(mm)	(mm)	
						(inch)					
20		10	<b>729 800 106</b>	10	0.007	½	4	21	30	28	
25		10	<b>729 800 107</b>	10	0.012	¾	5	24	39	36	
32		10	<b>729 800 108</b>	10	0.016	1	5	27	44	41	
40		10	<b>729 800 109</b>	10	0.042	1 ¼	3	31	57	53	
50		10	<b>729 800 110</b>	10	0.045	1 ½	3	34	63	59	
63		10	<b>729 800 111</b>	10	0.084	2	3	41	78	74	
*	75	2 ½	10	<b>700 246 112</b>	1	0.155	2 ½	3	47	97	90
	75	2 ½	10	<b>729 800 162</b>	20	0.109	2 ½	3	47	101	91
	90		10	<b>729 800 163</b>	12	0.178	3	5	56	121	108
	110		10	<b>729 800 164</b>	10	0.295	4	5	66	146	131

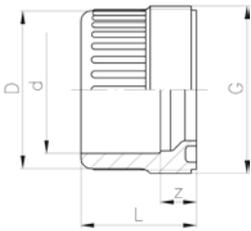


## Union bush ABS metric

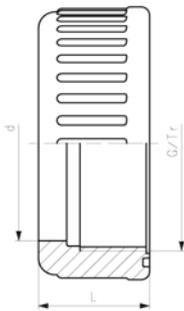
### Model:

- Solvent cement socket metric
- For union 729 510 106-114
- Jointing face: with O-ring groove

d	Size	PN	Code	SP	Weight	closest	z	D	L	G/Tr
(mm)	(inch)	(bar)			(kg)	inch	(mm)	(mm)	(mm)	(inch)
						(inch)				
20		10	<b>729 840 106</b>	10	0.011	½	10	28	26	1
25		10	<b>729 840 107</b>	10	0.016	¾	10	33	29	1 1/4
32		10	<b>729 840 108</b>	10	0.027	1	10	41	33	1 1/2
40		10	<b>729 840 109</b>	10	0.046	1 ¼	12	50	39	2
50		10	<b>729 840 110</b>	10	0.058	1 ½	14	62	46	2 1/4



d (mm)	Size (inch)	PN (bar)	Code	SP (kg)	Weight (kg)	closest inch (inch)	z (mm)	D (mm)	L (mm)	G/Tr (inch)
63		10	729 840 111	10	0.110	2	18	77	58	2 3/4
75	2 1/2	10	729 840 112	20	0.160	2 1/2	18	93	62	Tr108x5
90		10	729 840 123	12	0.274	3	18	110	69	Tr128x5
110		10	729 840 114	10	0.330	4	11	133	72	Tr154x6



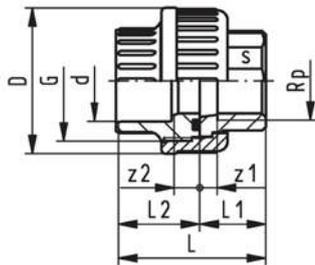
### Union nut ABS

#### Model:

- For Union 729 510 106-114 and 729 511 105-112

d (mm)	Size (inch)	PN (bar)	Code	SP (kg)	Weight (kg)	L (mm)	G/Tr (inch)	D (mm)	closest inch (inch)
16		10	729 890 405	10	0.009	21	3/4		3/8
20		10	729 890 406	10	0.048	23	1	28	1/2
25		10	729 890 407	10	0.046	25	1 1/4	36	3/4
32		10	729 890 408	10	0.025	27	1 1/2	42	1
40		10	729 890 409	10	0.060	30	2	53	1 1/4
50		10	729 890 410	10	0.100	34	2 1/4	59	1 1/2
63		10	729 890 411	10	0.147	38	2 3/4	74	2
75	2 1/2	10	729 690 012	40	0.189	40	Tr108x5	92	2 1/2
90		10	729 690 013	25	0.271	43	Tr128x5	110	3
110		10	729 690 014	20	0.430	48	Tr154x6	133	4

## Adaptor Unions



### Adaptor union ABS metric malleable iron galvanised Rp

#### Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: malleable iron with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP (kg)	Weight (kg)
20	Rp	1/2	10	729 530 306	10	0.064
25	Rp	3/4	10	729 530 307	5	0.095
32	Rp	1	10	729 530 308	5	0.139
40	Rp	1 1/4	10	729 530 309	2	0.240
50	Rp	1 1/2	10	729 530 310	2	0.339
63	Rp	2	10	729 530 311	5	0.516

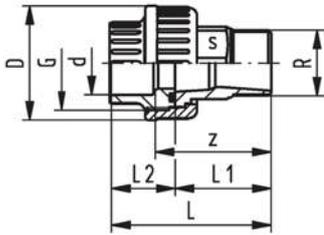
d (mm)	L1 (mm)	L (mm)	D (mm)	s (mm)	L2 (mm)	z2 (mm)	z1 (mm)	G (inch)
20	22	48	43	25	26	10	9	1
25	22	51	51	31	29	10	7	1 1/4
32	26	58	58	38	33	10	9	1 1/2
40	31	69	72	48	39	12	12	2
50	33	78	83	54	46	14	14	2 1/4
63	35	91	100	67	58	18	11	2 3/4



### Adaptor union ABS metric malleable iron galvanised R

**Model:**

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Malleable iron with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011



d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)
20	R	½	10	<b>729 530 806</b>	10	0.100
25	R	¾	10	<b>729 530 807</b>	5	0.147
32	R	1	10	<b>729 530 808</b>	5	0.198
40	R	1 ¼	10	<b>729 530 809</b>	2	0.400
50	R	1 ½	10	<b>729 530 810</b>	2	0.490
63	R	2	10	<b>729 530 811</b>	8	0.675

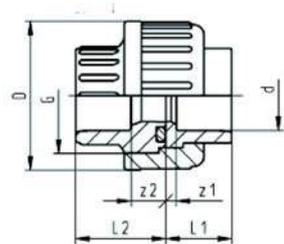
d	D	L	L1	L2	z	G	s
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)
20	43	66	40	26	50	1	25
25	51	72	43	29	53	1 1/4	31
32	58	80	48	33	58	1 1/2	38
40	72	95	57	39	69	2	48
50	83	104	59	46	73	2 1/4	54
63	100	118	62	58	80	2 3/4	67



### Adaptor union ABS metric brass Rp

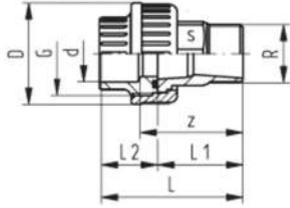
**Model:**

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Brass with parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011



d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)
20	Rp	½	10	<b>729 550 506</b>	10	0.084
25	Rp	¾	10	<b>729 550 507</b>	5	0.134
32	Rp	1	10	<b>729 550 508</b>	5	0.179
40	Rp	1 ¼	10	<b>729 550 509</b>	2	0.327
50	Rp	1 ½	10	<b>729 550 510</b>	2	0.452
63	Rp	2	10	<b>729 550 511</b>	2	0.674

d	z1	s	L2	L	G	z2	D	L1
(mm)	(mm)	(mm)	(mm)	(mm)	(inch)	(mm)	(mm)	(mm)
20	7	25	26	48	1	10	43	22
25	9	30	29	54	1 1/4	11	51	25
32	8	36	33	60	1 1/2	11	58	27
40	10	48	39	70	2	13	72	31
50	14	55	46	81	2 1/4	21	83	35
63	14	65	58	98	2 3/4	21	100	40



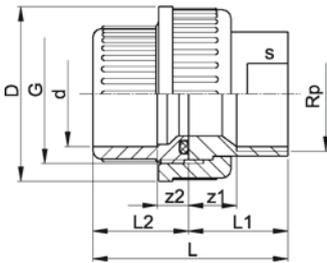
### Adaptor union ABS metric brass R

#### Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Brass with taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011

d (mm)	Thread Type	Size (inch)	PN (bar)	Code	SP	Weight (kg)
20	R	½	10	<b>729 550 906</b>	10	0.123
25	R	½	10	<b>729 550 957</b>	5	0.185
25	R	¾	10	<b>729 550 907</b>	5	0.175
25	R	1	10	<b>729 550 967</b>	5	0.293
32	R	½	10	<b>729 550 958</b>	5	0.283
32	R	¾	10	<b>729 550 968</b>	5	0.283
32	R	1	10	<b>729 550 908</b>	5	0.374
40	R	1 ¼	10	<b>729 550 909</b>	2	0.503
50	R	1 ½	10	<b>729 550 910</b>	2	0.640
63	R	2	10	<b>729 550 911</b>	2	1.019

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	48	1 1/4	30
25	51	71	42	29	52	1 1/4	30
25	51	75	46	29	57	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



### Adaptor union ABS metric stainless steel Rp

#### Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Stainless Steel WN 1.4404 (316L), parallel female thread Rp
- Gasket: O-ring EPDM code no. 748 410 006-011

d (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)
20	Rp	½	10	<b>729 540 206</b>	10	0.096
25	Rp	¾	10	<b>729 540 207</b>	5	0.154
32	Rp	1	10	<b>729 540 208</b>	5	0.212
40	Rp	1 ¼	10	<b>729 540 209</b>	2	0.356
50	Rp	1 ½	10	<b>729 540 210</b>	2	0.443
63	Rp	2	10	<b>729 540 211</b>	2	0.721

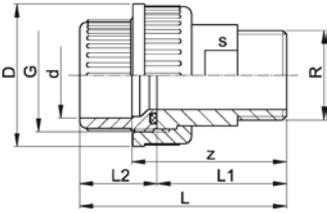
d (mm)	z1 (mm)	z2 (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)	s (mm)
20	11	10	43	50	24	26	1	24
25	11	10	51	55	26	29	1 1/4	29
32	12	10	58	61	29	33	1 1/2	36
40	14	12	74	71	33	39	2	45
50	15	14	83	79	34	46	2 1/4	54
63	15	18	100	95	39	58	2 3/4	63



### Adaptor union ABS metric stainless steel R

#### Model:

- Union Nut: ABS
- Union Bush: Solvent cement socket ABS metric
- Union End: Stainless Steel WN 1.4404 (316L), taper male thread R
- Gasket: O-ring EPDM code no. 748 410 006-011



d (mm)	Thread Type	Size (inch)	PN (bar)	EPDM Code	SP	Weight (kg)
20	R	½	10	<b>729 540 706</b>	10	0.106
25	R	¾	10	<b>729 540 707</b>	5	0.174
32	R	1	10	<b>729 540 708</b>	5	0.262
40	R	1 ¼	10	<b>729 540 709</b>	2	0.476
50	R	1 ½	10	<b>729 540 710</b>	2	0.535
63	R	2	10	<b>729 540 711</b>	2	0.861

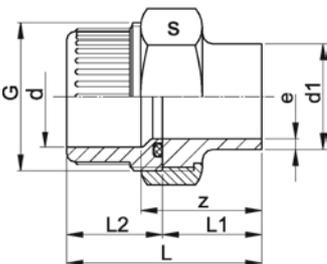
d (mm)	z (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)	s (mm)
20	44	43	60	34	26	1	24
25	46	51	65	36	29	1 1/4	32
32	50	58	72	40	33	1 1/2	37
40	58	74	84	46	39	2	48
50	62	83	93	48	46	2 1/4	54
63	73	100	111	55	58	2 3/4	69



### Adaptor union ABS metric stainless steel welding end

#### Model:

- Union End: Stainless Steel WN 1.4404 (316L) with welding end
- Union Bush: Solvent cement socket ABS metric
- Union Nut: Stainless Steel WN 1.4404 (316L)
- Gasket: O-ring EPDM code no. 748 410 006-011



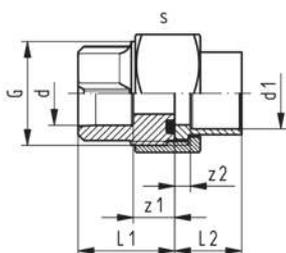
d (mm)	PN (bar)	d1 (mm)	EPDM Code	SP Weight (kg)	z (mm)	L (mm)	L1 (mm)	L2 (mm)	e (mm)	G (inch)	s (mm)	
20	10	21	<b>729 545 506</b>	10	0.176	32	48	22	26	2.0	1	41
25	10	27	<b>729 545 507</b>	5	0.204	33	52	23	29	2.0	1 1/4	46
32	10	34	<b>729 545 508</b>	5	0.313	36	58	26	33	2.0	1 1/2	55
40	10	42	<b>729 545 509</b>	2	0.493	38	64	26	39	2.0	2	68
50	10	48	<b>729 545 510</b>	2	0.566	42	73	28	46	2.0	2 1/4	74
63	10	60	<b>729 545 511</b>	2	0.902	50	88	32	58	2.6	2 3/4	88



### Adaptor union ABS metric copper for soldering

#### Model:

- Union End: Copper
- Union Bush: Solvent cement socket ABS metric
- Union Nut: brass
- Gasket: O-ring EPDM code no. 748 410 006-011



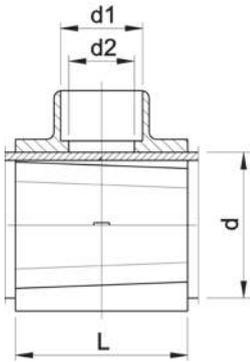
d (mm)	PN (bar)	d1 (mm)	Code	SP Weight (kg)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	G (inch)	s (mm)	
20	10	22	<b>720 510 106</b>	10	0.140	26	19	9	3	1	40
25	10	28	<b>720 510 107</b>	5	0.269	29	28	9	6	1 1/4	50
32	10	35	<b>720 510 108</b>	5	0.198	33	27	10	5	1 1/2	52
40	10	42	<b>720 510 109</b>	2	0.350	39	35	12	6	2	66
50	10	54	<b>720 510 110</b>	2	0.438	46	46	14	3	2 1/4	72

# Branch Saddles

## Branch saddle ABS metric

### Model:

- For ABS-pipes
- Outlet with solvent cement socket metric
- PN10
- Top saddle (ABS) for solvent cementing
- Bottom part and wedges made from PVC-U



d (mm)	PN* (bar)	Code	SP	Weight (kg)	d1 (mm)	d2 (mm)	Tapping-Ø (mm)	L (mm)
90	1	<b>169 110 056</b>	1	0.786	50	40	39	105
110	1	<b>169 110 066</b>	1	0.864	50	40	39	105
160	1	<b>169 110 097</b>	1	1.329	63	49	48	120
225	1	<b>169 110 117</b>	1	1.587	63	49	48	120

# ABS Valves

## Ball Valves

### 2-Way Ball Valves Type 546 Pro



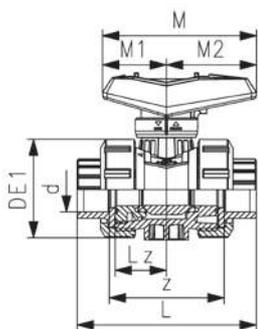
**Ball valve type 546 Pro ABS**  
With solvent cement sockets BS

**Model:**

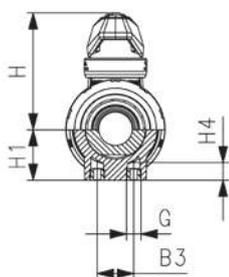
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

**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 ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	3/8	10	70	<b>169 546 241</b>	1	0.112
20	15	1/2	10	185	<b>169 546 242</b>	1	0.114
25	20	3/4	10	350	<b>169 546 243</b>	1	0.178
32	25	1	10	700	<b>169 546 244</b>	1	0.258
40	32	1 1/4	10	1000	<b>169 546 245</b>	1	0.457
50	40	1 1/2	10	1600	<b>169 546 246</b>	1	0.642
63	50	2	10	3100	<b>169 546 247</b>	1	1.175
90	80	3	10	7000	<b>169 546 249</b>	1	4.120
110	100	4	10	11000	<b>169 546 250</b>	1	9.100



d (mm)	B3 (mm)	DE1 (mm)	G (inch)	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
90	70	166	M8	180.0	85	15	233	68	270	64	205	144
110	120	238	M12	194.0	123	22	301	82	326	71	255	174



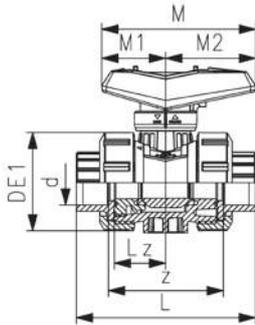
**ABS Ball Valve type 546 Pro**  
**With solvent cement sockets ABS ISO**

**Model:**

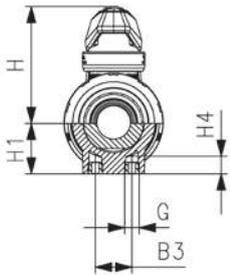
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1<sup>st</sup> Generation)

**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 ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	3/8	10	70	169 546 061	1	0.112
20	15	1/2	10	185	169 546 062	1	0.114
25	20	3/4	10	350	169 546 063	1	0.188
32	25	1	10	700	169 546 064	1	0.272
40	32	1 1/4	10	1000	169 546 065	1	0.481
50	40	1 1/2	10	1600	169 546 066	1	0.657
63	50	2	10	3100	169 546 067	1	1.200
75	65	2 1/2	10	5000	169 546 068	1	3.463
90	80	3	10	7000	169 546 069	1	5.700
110	100	4	10	11000	169 546 070	1	6.985



d (mm)	B3 (mm)	DE1 (mm)	G (inch)	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	255	71	270	64	205	151
110	120	238	M12	194.0	123	22	301	82	326	71	255	174



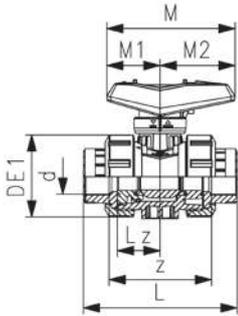
**ABS Ball Valve type 546 Pro**  
**With threaded sockets ABS ISO Rp**

**Model:**

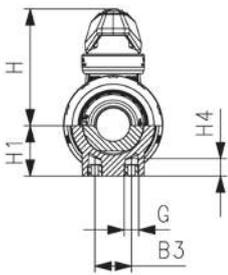
- Lockable lever as standard
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are compatible with type 546 (1st Generation)

**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 ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	3/8	10	70	<b>169 546 021</b>	1	0.112
20	15	1/2	10	185	<b>169 546 022</b>	1	0.114
25	20	3/4	10	350	<b>169 546 023</b>	1	0.178
32	25	1	10	700	<b>169 546 024</b>	1	0.258
40	32	1 1/4	10	1000	<b>169 546 025</b>	1	0.457
50	40	1 1/2	10	1600	<b>169 546 026</b>	1	0.642
63	50	2	10	3100	<b>169 546 027</b>	1	1.175



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



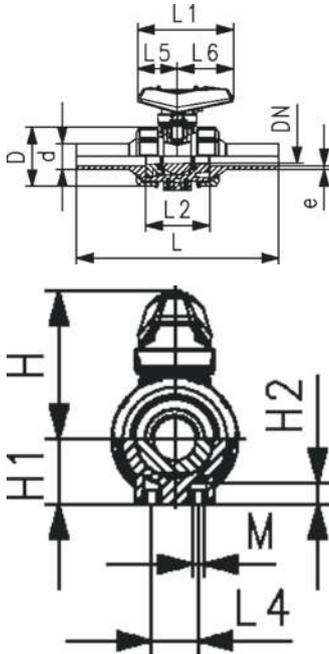
**ecoFIT Ball valve type 546 pro**  
**With butt fusion spigots long**  
**PE100 SDR11 metric**

**Model:**

- Material: ABS/PE
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seat PTFE
- Integrated stainless steel mounting inserts
- Z-dimension, valve end and union nut **are compatible** with type 546 (1<sup>st</sup> Generation)

**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
- Multifunctional module with integrated limit switches (DN65-100)



d (mm)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	SDR	EPDM Code	Weight (kg)
20	15	10	185	11	<b>800 024 832</b>	0.150
25	20	10	350	11	<b>800 024 834</b>	0.220
32	25	10	700	11	<b>800 015 141</b>	0.310
40	32	10	1000	11	<b>800 015 142</b>	0.530
50	40	10	1600	11	<b>800 015 179</b>	0.740
63	50	10	3100	11	<b>800 015 143</b>	1.370
75	65	10	5000	11	<b>800 045 326</b>	3.900
90	80	10	7000	11	<b>800 045 327</b>	3.900
110	100	10	11000	11	<b>800 045 328</b>	3.900

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	61	27	12	193	82	56	25	35	47	M6	1.9	½
25	58	74	30	12	217	105	65	25	44	62	M6	2.3	¾
32	68	80	36	12	223	105	71	25	44	62	M6	2.9	1
40	84	95	44	15	249	131	85	45	57	74	M8	3.7	1 ¼
50	97	102	51	15	271	131	89	45	57	74	M8	4.6	1 ½
63	124	117	64	15	320	152	101	45	66	86	M8	5.8	2
75	166	150	85	15	387	269	136	70	64	206	M8	6.8	2 ½
90	200	161	105	15	421	269	141	70	64	206	M8	8.2	3
110	238	178	123	22	484	319	164	120	64	256	M12	10.0	4

# 3-Way Ball Valves Type 543 Pro



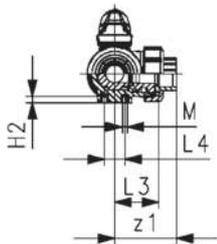
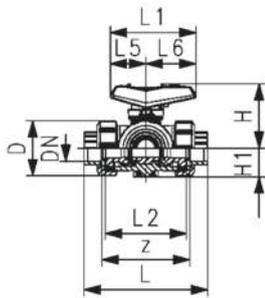
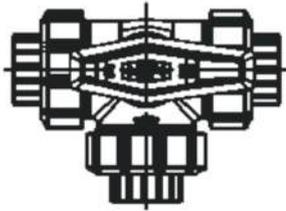
## 3-Way ball valve type 543 Pro ABS Horizontal/L-port With solvent cement sockets BS

### 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)

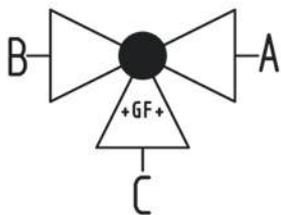
### Option:

- 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



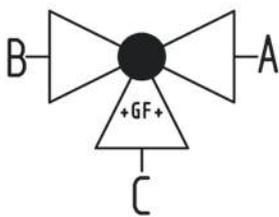
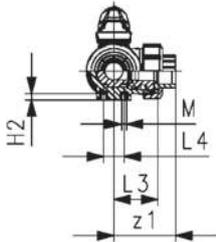
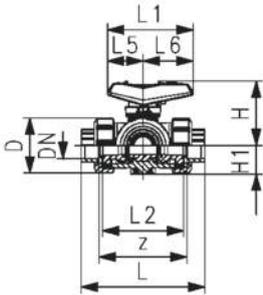
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	3/8	10	50	169 543 061	1	0.187
20	15	1/2	10	75	169 543 062	1	0.181
25	20	3/4	10	150	169 543 063	1	0.263
	25	1	10	280	169 543 064	1	0.402
40	32	1 1/4	10	480	169 543 065	1	0.716
50	40	1 1/2	10	620	169 543 066	1	1.061
63	50	2	10	1230	169 543 067	1	2.064

D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)	z (mm)	z1 (mm)
50	61	28	8	109	82	73	36	25	35	47	6	77	38
50	61	28	8	112	82	73	36	25	35	47	6	77	38
58	74	32	8	131	106	86	43	25	44	62	6	90	45
68	80	36	8	151	106	99	50	25	44	62	6	103	52
84	95	45	9	181	131	120	60	45	57	74	8	124	62
97	102	51	9	205	131	137	69	45	57	74	8	145	73
124	117	65	9	261	152	179	89	45	66	86	8	189	94





**3-Way ball valve type 543 Pro ABS**  
**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	DN	Size	PN	kv-value	EPDM	SP	Weight
(mm)	(mm)	(inch)	(bar)	( $\Delta p=1$ bar)	Code		(kg)
				(l/min)			
16	10	3/8	10	50	169 543 001	1	0.187
20	15	1/2	10	75	169 543 002	1	0.174
25	20	3/4	10	150	169 543 003	1	0.276
32	25		10	280	169 543 004	1	0.403
40	32	1 1/4	10	480	169 543 005	1	0.707
50	40	1 1/2	10	620	169 543 006	1	1.059
63	50	2	10	1230	169 543 007	1	2.062

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest inch
(mm)		(mm)	(mm)	(inch)											
16	50	61	28	8	109	82	73	36	25	35	47	6	81	40	3/8
20	50	61	28	8	112	82	73	36	25	35	47	6	81	40	1/2
25	58	74	32	8	131	106	86	43	25	44	62	6	94	47	3/4
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 1/4
50	97	102	51	9	205	131	137	69	45	57	74	8	143	72	1 1/2
63	124	117	65	9	261	152	179	89	45	66	86	8	185	92	2



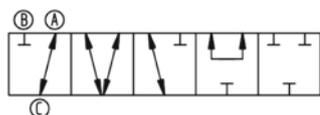
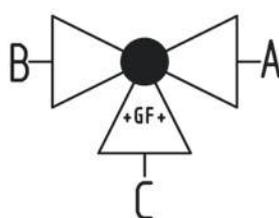
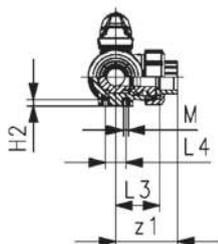
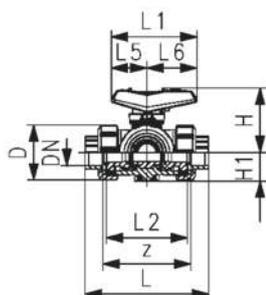
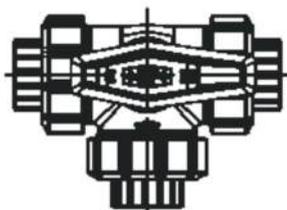
**3-Way ball valve type 543 Pro ABS**  
**Horizontal/L-port**  
**With threaded sockets Rp**

**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)

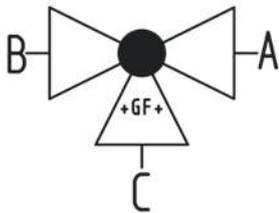
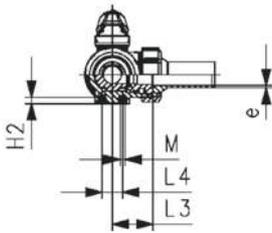
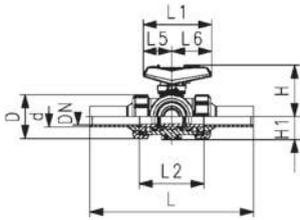
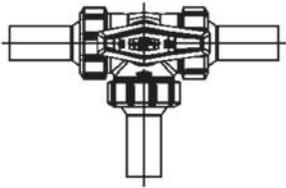
**Option:**

- 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	DN	Thread Type	Size	PN	kv-value	EPDM	SP	Weight
(mm)	(mm)		(inch)	(bar)	( $\Delta p=1$ bar)	Code		(kg)
					(l/min)			
16	10	Rp	3/8	10	50	<b>169 543 041</b>	1	0.187
20	15	Rp	1/2	10	75	<b>169 543 042</b>	1	0.192
25	20	Rp	3/4	10	150	<b>169 543 043</b>	1	0.276
	25	Rp		10	280	<b>169 543 044</b>	1	0.420
40	32	Rp	1 1/4	10	480	<b>169 543 045</b>	1	0.716
50	40	Rp	1 1/2	10	620	<b>169 543 046</b>	1	1.061
63	50	Rp	2	10	1230	<b>169 543 047</b>	1	2.064

D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	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



**ecoFIT 3-Way ball valve type 543 Pro ABS**  
**Horizontal/L-port**  
**With butt fusion spigots long PE100 SDR11 metric**

**Model:**

- Lockable lever as standard (DN10-DN50)
- Material: ABS/PE
- 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	DN	Size	PN	kv-value	EPDM	Weight
(mm)	(mm)	(inch)	(bar)	( $\Delta p=1$ bar)	Code	(kg)
				(l/min)		
20	15	½	10	75	<b>169 543 302</b>	0.203
25	20	¾	10	150	<b>169 543 303</b>	0.296
32	25	1	10	280	<b>169 543 304</b>	0.450
40	32	1 ¼	10	480	<b>169 543 305</b>	0.762
50	40	1 ½	10	620	<b>169 543 306</b>	1.161
63	50	2	10	1230	<b>169 543 307</b>	2.509

d	DN	D	L	L1	L2	L3	L4	L5	L6	H	H1	H2	M	e	closest
(mm)	inch														
															(inch)
20	15	50	210	82	73	36	25	35	47	61	28	8	6	1.9	½
25	20	58	237	106	86	43	25	44	62	74	32	8	6	2.3	¾
32	25	68	251	106	99	50	25	44	62	80	36	8	6	2.9	1
40	32	84	283	131	120	60	45	57	74	95	45	9	8	3.7	1 ¼
50	40	97	319	131	137	69	45	57	74	102	51	9	8	4.6	1 ½
63	50	124	399	152	179	89	45	66	86	117	65	9	8	5.8	2



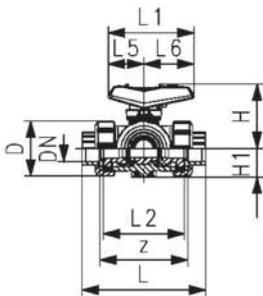
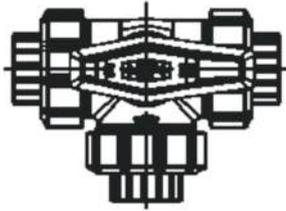
**3-Way ball valve type 543 Pro ABS**  
**Horizontal/T-port**  
**With solvent cement sockets BS**

**Model:**

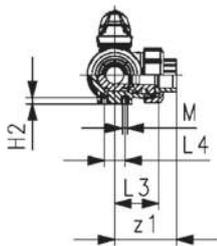
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seat PTFE
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel 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:**

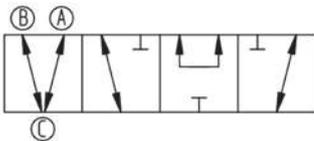
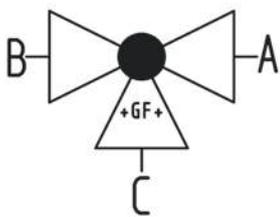
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible

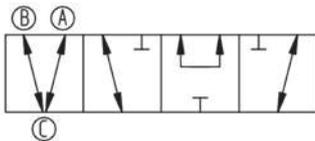
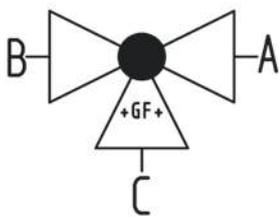
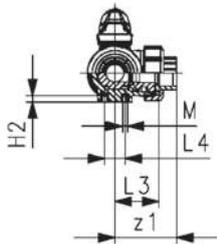
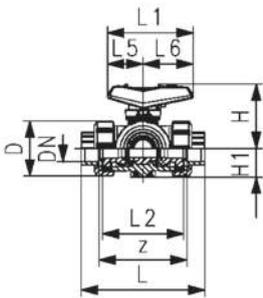
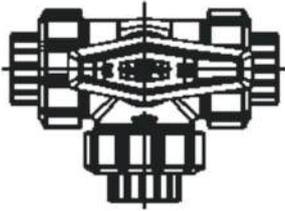


d	Size	DN	PN	kv-value	EPDM	SP	Weight
(mm)	(inch)	(mm)	(bar)	( $\Delta p=1$ bar)	Code		(kg)
				(l/min)			
16	3/8	10	10	140	<b>169 543 261</b>	1	0.186
20	1/2	15	10	200	<b>169 543 262</b>	1	0.191
25	3/4	20	10	470	<b>169 543 263</b>	1	0.274
	1	25	10	793	<b>169 543 264</b>	1	0.415
40	1 1/4	32	10	1290	<b>169 543 265</b>	1	0.708
50	1 1/2	40	10	1910	<b>169 543 266</b>	1	1.045
63	2	50	10	3100	<b>169 543 267</b>	1	2.030



D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(mm)													
50	61	28	8	109	82	73	36	25	35	47	6	77	38
50	61	28	8	112	82	73	36	25	35	47	6	77	38
58	74	32	8	131	106	86	43	25	44	62	6	90	45
68	80	36	8	151	106	99	50	25	44	62	6	103	52
84	95	45	9	181	131	120	60	45	57	74	8	124	62
97	102	51	9	205	131	137	69	45	57	74	8	145	73
124	117	65	9	261	152	179	89	45	66	86	8	189	94





**3-Way ball valve type 543 Pro ABS**  
**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	DN	Size	PN	kv-value	EPDM	SP	Weight
(mm)	(mm)	(inch)	(bar)	( $\Delta p=1$ bar)	Code		(kg)
				(l/min)			
16	10	3/8	10	140	<b>169 543 201</b>	1	0.186
20	15	1/2	10	200	<b>169 543 202</b>	1	0.178
25	20	3/4	10	470	<b>169 543 203</b>	1	0.263
32	25		10	793	<b>169 543 204</b>	1	0.403
40	32	1 1/4	10	1290	<b>169 543 205</b>	1	0.699
50	40	1 1/2	10	1910	<b>169 543 206</b>	1	1.046
63	50	2	10	3100	<b>169 543 207</b>	1	2.030

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)		(mm)	(mm)	inch											
															(inch)
16	50	61	28	8	109	82	73	36	25	35	47	6	81	40	3/8
20	50	61	28	8	112	82	73	36	25	35	47	6	81	40	1/2
25	58	74	32	8	131	106	86	43	25	44	62	6	94	47	3/4
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 1/4
50	97	102	51	9	205	131	137	69	45	57	74	8	143	72	1 1/2
63	124	117	65	9	261	152	179	89	45	66	86	8	185	92	2



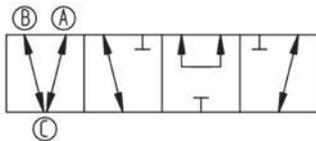
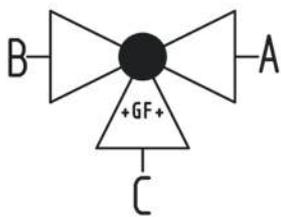
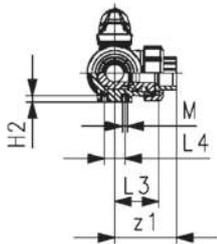
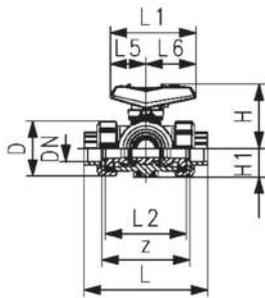
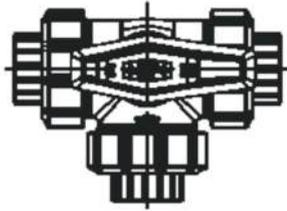
### 3-Way ball valve type 543 Pro ABS Horizontal/T-port/With threaded sockets Rp

#### 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)

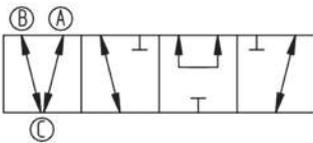
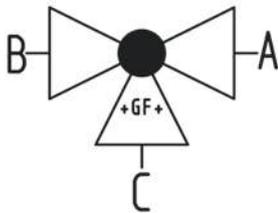
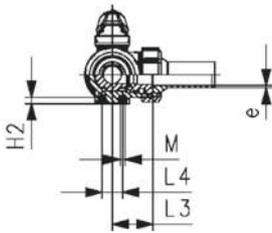
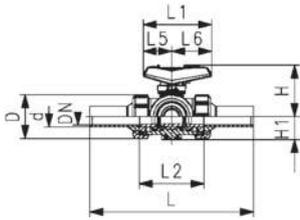
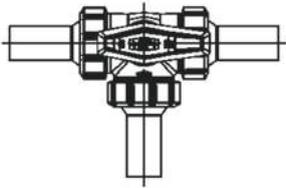
#### Option:

- 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	Type	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	EPDM Code	SP	Weight (kg)
16	10	Rp		3/8	10	140	<b>169 543 241</b>	1	0.186
20	15	Rp		1/2	10	200	<b>169 543 242</b>	1	0.191
25	20	Rp		3/4	10	470	<b>169 543 243</b>	1	0.274
	25	Rp			10	793	<b>169 543 244</b>	1	0.415
40	32	Rp		1 1/4	10	1290	<b>169 543 245</b>	1	0.708
50	40	Rp		1 1/2	10	1910	<b>169 543 246</b>	1	1.045
63	50	Rp		2	10	3100	<b>169 543 247</b>	1	2.030

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



**ecoFIT 3-Way ball valve type 543 Pro ABS**  
**Horizontal/T-port**  
**With butt fusion spigots long PE100 SDR11 metric**

**Model:**

- Material: ABS/PE
- 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	DN	Size	PN	kv-value	EPDM	Weight
(mm)	(mm)	(inch)	(bar)	( $\Delta p=1$ bar)	Code	(kg)
				(l/min)		
20	15	½	10	200	<b>169 543 322</b>	0.203
25	20	¾	10	470	<b>169 543 323</b>	0.296
32	25	1	10	793	<b>169 543 324</b>	0.450
40	32	1 ¼	10	1290	<b>169 543 325</b>	0.762
50	40	1 ½	10	1910	<b>169 543 326</b>	1.161
63	50	2	10	3100	<b>169 543 327</b>	2.509

d	DN	D	L	L1	L2	L3	L4	L5	L6	H	H1	H2	M	e	closest
(mm)	inch														
															(inch)
20	15	50	210	82	73	36	25	35	47	61	28	8	6	1.9	½
25	20	58	237	106	86	43	25	44	62	74	32	8	6	2.3	¾
32	25	68	251	106	99	50	25	44	62	80	36	8	6	2.9	1
40	32	84	283	131	120	60	45	57	74	95	45	9	8	3.7	1 ¼
50	40	97	319	131	137	69	45	57	74	102	51	9	8	4.6	1 ½
63	50	124	399	152	179	89	45	66	86	117	65	9	8	5.8	2



**3-Way ball valve type 543 Pro ABS**  
**Vertical/L-port**  
**With solvent cement sockets BS**

**Model:**

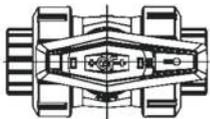
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seat PTFE
- Vertical inlet solvent cement spigot metric
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting 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:**

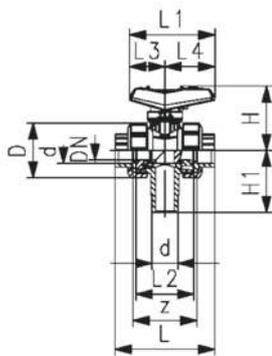
- For interconnection of two inputs

**Option:**

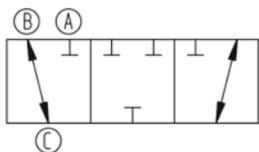
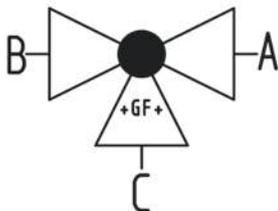
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
10	3/8	10	49	<b>169 543 601</b>	1	0.124
15	1/2	10	77	<b>169 543 602</b>	1	0.127
20	3/4	10	146	<b>169 543 603</b>	1	0.194
25	1	10	260	<b>169 543 604</b>	1	0.284
32	1 1/4	10	437	<b>169 543 605</b>	1	0.475
40	1 1/2	10	667	<b>169 543 606</b>	1	0.676
50	2	10	1293	<b>169 543 607</b>	1	1.234



D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	z (mm)
50	61	62	92	82	56	32	45	60
50	61	62	95	82	56	32	45	60
58	74	72	111	106	66	39	58	69
68	80	77	123	106	71	39	58	75
84	95	87	146	131	85	54	74	89
97	102	97	157	131	89	54	74	97
124	117	112	183	152	101	66	87	110





**3-Way ball valve type 543 Pro ABS**  
**Vertical/L-port**  
**With solvent cement sockets metric**

**Model:**

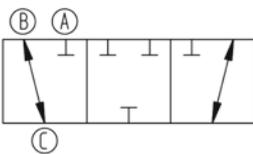
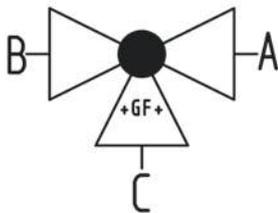
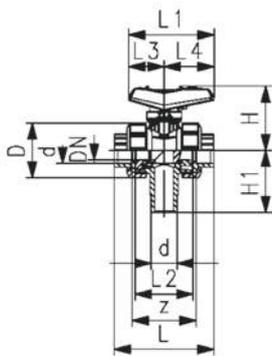
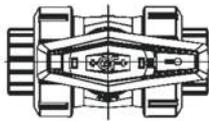
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seat PTFE
- Vertical inlet solvent cement spigot metric
- Integrated stainless steel mounting inserts
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- 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 ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
16	10	10	49	169 543 401	1	0.124
20	15	10	77	169 543 402	1	0.123
25	20	10	146	169 543 403	1	0.194
32	25	10	260	169 543 404	1	0.284
40	32	10	437	169 543 405	1	0.475
50	40	10	667	169 543 406	1	0.676
63	50	10	1293	169 543 407	1	1.234

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	3/8
20	50	61	62	95	82	56	32	45	64	1/2
25	58	74	72	111	106	66	39	58	74	3/4
32	68	80	77	123	106	71	39	58	79	1
40	84	95	87	146	131	85	54	74	95	1 1/4
50	97	102	97	157	131	89	54	74	95	1 1/2
63	124	117	112	183	152	101	66	87	107	2



**3-Way ball valve type 543 Pro ABS**  
**Vertical/L-port**  
**With threaded sockets Rp**

**Model:**

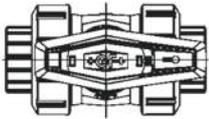
- Lockable lever as standard (DN10-DN50)
- For easy installation and removal
- Ball seat PTFE
- Vertical inlet solvent cement spigot metric
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting 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:**

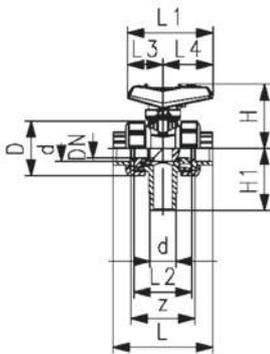
- For interconnection of two inputs

**Option:**

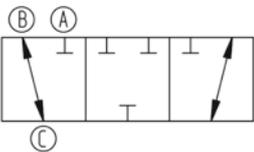
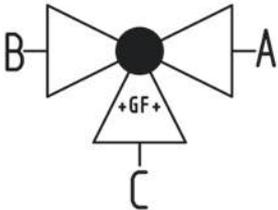
- Interface-module with position feedback sensor, incl. LED feedback (DN10-50)
- Manual spring return lever ("Dead man") (DN10-25)
- Pneumatic or electric actuators from GF
- Individual configuration of the valve possible



DN (mm)	Thread Type	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	EPDM Code	SP	Weight (kg)
10	Rp	3/8	10	49	<b>169 543 421</b>	1	0.124
15	Rp	1/2	10	77	<b>169 543 422</b>	1	0.127
20	Rp	3/4	10	146	<b>169 543 423</b>	1	0.194
25	Rp	1	10	260	<b>169 543 424</b>	1	0.284
32	Rp	1 1/4	10	437	<b>169 543 425</b>	1	0.475
40	Rp	1 1/2	10	667	<b>169 543 426</b>	1	0.676
50	Rp	2	10	1293	<b>169 543 427</b>	1	1.234



D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	z (mm)
50	61	62	96	82	56	32	45	69
50	61	62	99	82	56	32	45	67
58	74	72	115	106	66	39	58	78
68	80	77	127	106	71	39	58	85
84	95	87	144	131	85	54	74	100
97	102	97	153	131	89	54	74	106
124	117	112	177	152	101	66	87	121

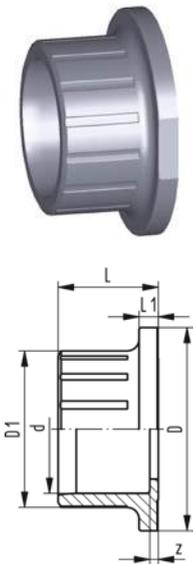


## Connecting parts type 546 and 543



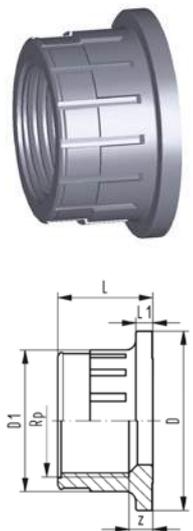
**ABS valve end 546 Pro and 543 Pro (G21)**  
With solvent cement socket Inch BS

d (mm)	Size (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
16	¾	10	<b>169 480 800</b>	0.007	38	23	18	4	2
20	½	10	<b>169 480 801</b>	0.007	38	27	20	4	2
25	¾	10	<b>169 480 802</b>	0.011	44	33	23	5	2
32	1	10	<b>169 480 803</b>	0.017	53	41	26	5	2
40	1 ¼	10	<b>169 480 804</b>	0.026	65	51	31	5	2
50	1 ½	10	<b>169 480 805</b>	0.052	77	62	34	6	4
63	2	10	<b>169 480 806</b>	0.100	99	77	41	7	5
75	2 ½	10	<b>169 480 782</b>	0.175	125	92	49	9	4
90	3	10	<b>169 480 808</b>	0.300	150	110	57	10	6
110	4	10	<b>169 480 809</b>	0.446	180	134	69	11	5



**ABS valve end 546 Pro and 543 Pro (G20)**  
With solvent cement socket metric

d (mm)	PN (bar)	Code	Weight (kg)	D1 (mm)	z (mm)	L (mm)	D (mm)	L1 (mm)
16	10	<b>169 480 775</b>	0.006	23	4	18	38	4
20	10	<b>169 480 776</b>	0.008	27	4	20	38	4
25	10	<b>169 480 777</b>	0.012	33	4	22	44	5
32	10	<b>169 480 778</b>	0.019	41	4	26	53	5
40	10	<b>169 480 779</b>	0.031	51	5	31	65	5
50	10	<b>169 480 780</b>	0.047	62	3	34	77	6
63	10	<b>169 480 781</b>	0.086	77	3	41	99	7
75	10	<b>169 480 782</b>	0.175	92	4	49	125	9
90	10	<b>169 480 783</b>	0.292	110	5	57	150	10
110	10	<b>169 480 784</b>	0.495	134	5	69	180	11



**ABS valve end 546 Pro and 543 Pro (G22)**  
With threaded socket Rp

**Model:**

- Connection to plastic thread only
- Do not use thread sealing pastes that are harmful to ABS

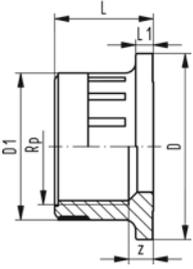
Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
¾	10	<b>169 480 786</b>	0.008	38	24	20	4	7
½	10	<b>169 480 787</b>	0.009	38	28	22	4	6
¾	10	<b>169 480 788</b>	0.014	44	34	25	5	7
1	10	<b>169 480 789</b>	0.023	53	42	28	5	7
1 ¼	10	<b>169 480 790</b>	0.034	65	52	30	5	7
1 ½	10	<b>169 480 791</b>	0.059	77	63	32	6	9
2	10	<b>169 480 792</b>	0.109	99	78	38	7	10



**ABS valve end 546 Pro and 543 Pro (G23)**  
**With threaded socket Rp reinforced**

**Model:**

- Connection to plastic or metal threads
- Reinforcing ring stainless (A2)
- Do not use thread sealing pastes that are harmful to ABS



Rp (inch)	PN (bar)	Code	Weight (kg)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)
3/8	16	<b>169 480 925</b>	0.008	38	24	20	4	7
1/2	16	<b>169 480 926</b>	0.010	38	28	22	4	6
3/4	16	<b>169 480 927</b>	0.014	44	34	25	5	7
1	16	<b>169 480 928</b>	0.023	53	42	28	5	7
1 1/4	16	<b>169 480 929</b>	0.035	65	52	30	5	7
1 1/2	16	<b>169 480 930</b>	0.077	77	63	32	6	9
2	16	<b>169 480 931</b>	0.130	99	78	38	7	10



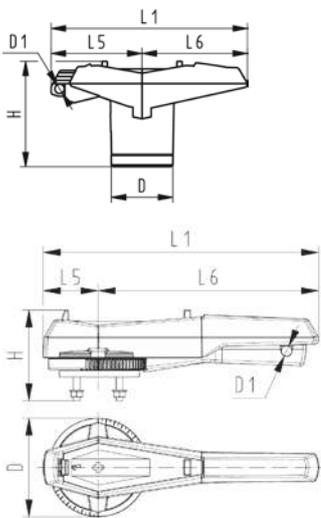
DN10/15 - 50



**Multifunctional lever 546 red (K11)**  
**With ratchet settings lockable**

**Note:**

To retrofit the ball valve 546 with the multifunctional handle a multifunction module is necessary in the dimensions DN65-100  
 Code 161 486 690 is compatible with the Butterfly Valve Type 567/578, dimension d63 DN50 - d90 DN80  
 Code 161 486 691 is compatible with the Butterfly Valve Type 567/578, dimension d110 DN100 - d140 DN125



d-d (mm)	DN-DN (mm)	Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	L1 (mm)	L5 (mm)	L6 (mm)
16 - 20	10 - 15	<b>167 484 100</b>	0.026	26	5	53	87	42	45
-- 25	-- 20	<b>167 484 101</b>	0.045	34	5	59	108	50	58
-- 32	-- 25	<b>167 484 102</b>	0.047	34	5	59	108	50	58
-- 40	-- 32	<b>167 484 103</b>	0.091	40	5	69	140	66	75
-- 50	-- 40	<b>167 484 104</b>	0.080	40	5	69	140	66	75
-- 63	-- 50	<b>167 484 105</b>	0.124	44	5	80	165	78	87
-- 75	-- 65	<b>161 486 689</b>	0.468	115	12	105	270	64	206
-- 90	-- 80	<b>161 486 690</b>	0.467	115	12	105	270	64	206
110 - 140	100 - 125	<b>161 486 691</b>	0.543	115	12	107	320	64	256



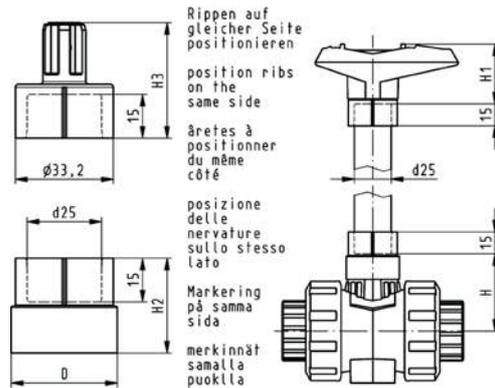


### Handle extension 546 and 543 PVC-U metric

**Model:**

- For ball valve type 546 and 543
- Composed of adapter sockets for handle connection and stem connection
- PVC-U pipe in suitable length has to be obtained on site

DN-DN (mm)	d-d (mm)	Code	Weight (kg)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	D (mm)
10 - 15	16 - 20	<b>161 486 435</b>	0.030	41	52	29	36	26
20 - 25	25 - 32	<b>161 486 436</b>	0.029	50	62	32	39	36
32 - 40	40 - 50	<b>161 486 437</b>	0.045	65	76	34	44	40
-- 50	-- 63	<b>161 486 438</b>	0.059	84	87	37	48	44

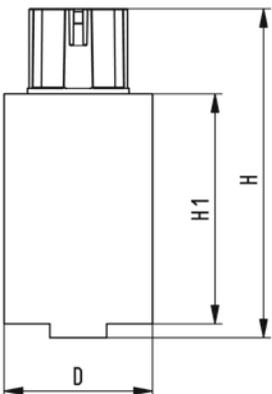


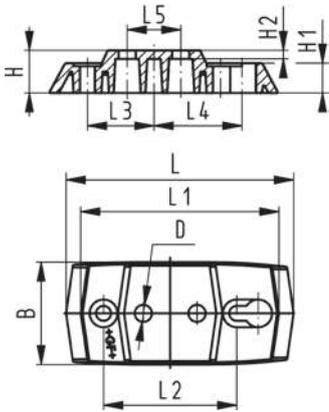
### Handle extension for ball valve type 546 PVC-U DN65 - DN100

**Model:**

- Height variable
- Multiple use in succession possible

d-d (mm)	DN-DN (mm)	Code	Weight (kg)	H (mm)	D (mm)	H1 (mm)
75 - 90	65 - 80	<b>161 490 920</b>	0.323	143	58	100
-- 110	-- 100	<b>161 490 921</b>	0.413	143	64	100





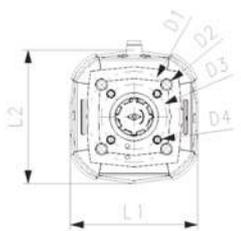
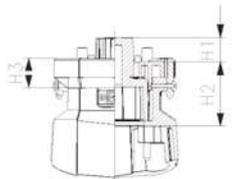
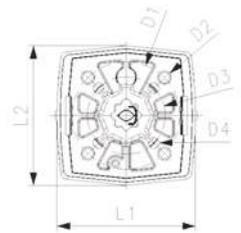
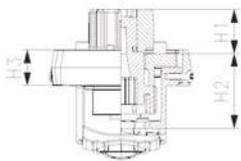
### Mounting plate 546 Pro and 543 PP-GF (L02)

- 2 mounting screws inclusive

d-d (mm)	Inch (inch)	DN-DN (mm)	Code	Weight (kg)
16 - 32	3/8 - 1	10 - 25	<b>167 484 110</b>	0.054
40 - 63	1 1/4 - 2	32 - 50	<b>167 484 111</b>	0.066

d-d (mm)	Inch (inch)	B (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)
16 - 32	3/8 - 1	48	8	20	14	4	106	92	62	31	41	25
40 - 63	1 1/4 - 2	54	9	20	14	4	149	134	104	52	62	45

# Multifunctional modules



## 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	SP	Weight (kg)	Interface for EA Code	SP	Weight (kg)
10 - 15	16 - 20	<b>198 546 162</b>	1	0.130	<b>198 546 142</b>	1	0.100
20	25	<b>198 546 163</b>	1	0.105	<b>198 546 143</b>	1	0.100
25	32	<b>198 546 164</b>	1	0.105	<b>198 546 144</b>	1	0.105
32	40	<b>198 546 135</b>	1	0.001	<b>198 546 145</b>	1	0.140
40	50	<b>198 546 136</b>	1	0.001	<b>198 546 146</b>	1	0.140
50	63	<b>198 546 137</b>	1	0.001	<b>198 546 147</b>	1	0.140
if PPA40	65 - 80	<b>198 546 165</b>	1	0.001	<b>198 546 148</b>	1	0.140
if PPA80	65 - 80	<b>198 546 166</b>	1	0.135			
100	110	<b>198 546 167</b>	1	0.001	<b>198 546 149</b>	1	0.140

DN (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)
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	70	M8	50	M6
if PPA80	65 - 80	19	49	23	92	70	M8	50	M6
100	18	49	23	97	103	70	M8	50	M6



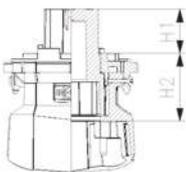
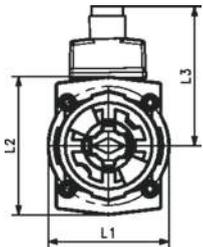
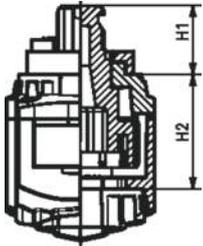
## Manual Interface module For Ball Valve Type 546 Pro & 543 Pro

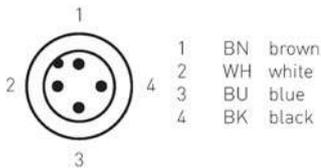
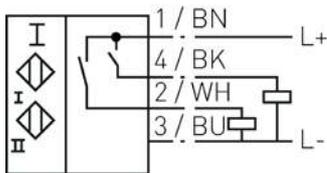
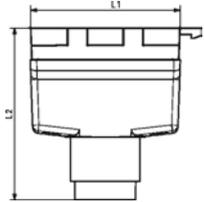
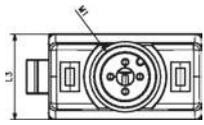
### Model:

- 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	SP	Weight (kg)	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)
10 - 15	16 - 20	<b>198 546 102</b>	1	0.042	15	32	37	44	46
20 - 25	25 - 32	<b>198 546 103</b>	1	0.052	20	32	41	47	48
32 - 40	40 - 50	<b>198 546 105</b>	1	0.097	23	33	53	60	54
50	63	<b>198 546 107</b>	1	0.111	26	36	56	62	55
65 - 80	75 - 90	<b>198 546 108</b>	1	0.111	34	52	103	103	58
100	110	<b>198 546 109</b>	1	0.111	34	52	103	103	58





## 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 ( $U_d$ ):  $\leq 3V$

Operating current ( $I_L$ ): 0... 150mA

Off-state current ( $I_r$ ): 0... 0.5mA typ. 0.1  $\mu A$  at 25°C

No-load supply current ( $I_0$ ):  $\leq 25mA$

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<sub>d</sub> 948 a

### Note:

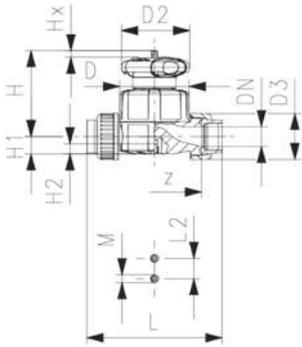
\*NAMUR sensor does not work with 565

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	SP	Weight (kg)	NPN Code	*Namur (Atex) Code	L1 (mm)	L2 (mm)	L3 (mm)	M1
Closed: green / open: red	<b>198 546 001</b>	1	0.050	<b>198 546 005</b>	<b>198 546 003</b>	26	30	15	M12
Closed: red / open: green	<b>198 546 002</b>	1	0.050	<b>198 546 006</b>	<b>198 546 004</b>	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 (U <sub>d</sub> )	$\leq 3V$	
Off-state current (I <sub>r</sub> )	0... 0.5mA typ. 0.1 $\mu A$ bei 25°C	
No-load supply current (I <sub>0</sub> )	$\leq 25 mA$	$\geq 3 mA$
MTTF <sub>d</sub>	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)	

# Diaphragm Valves



## Diaphragm valve type 514 ABS 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

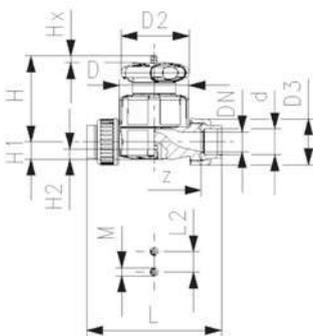
### Option:

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

\* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	PTFE/ EPDM* Code	SP	Weight (kg)
20	15	½	10	125	169 514 512	1	0.253	169 514 532	1	0.364
25	20	¾	10	271	169 514 513	1	0.465	169 514 533	1	0.476
32	25	1	10	481	169 514 514	1	0.664	169 514 534	1	1.079
40	32	1 ¼	10	759	169 514 515	1	1.298	169 514 535	1	1.317
50	40	1 ½	10	1263	169 514 516	1	2.321	169 514 536	1	2.350
63	50	2	10	1728	169 514 517	1	3.035	169 514 537	1	3.063

D	D2	D3	H	H1	H2	L	L2	M	z	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



## ABS Diaphragm valve type 514 With solvent cement sockets metric

### Model:

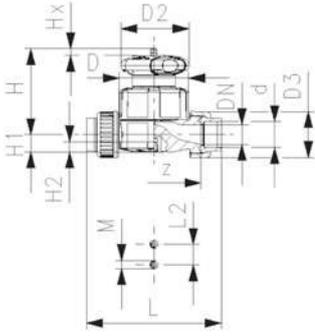
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

### Option:

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

\* O-Ring material: FKM

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	PTFE/ EPDM* Code	SP	Weight (kg)
20	15	½	10	125	169 514 012	1	0.355	169 514 032	1	0.365
25	20	¾	10	271	169 514 013	1	0.365	169 514 033	1	0.479
32	25	1	10	481	169 514 014	1	1.061	169 514 034	1	1.081
40	32	1 ¼	10	759	169 514 015	1	1.338	169 514 035	1	1.357
50	40	1 ½	10	1263	169 514 016	1	1.408	169 514 036	1	2.374
63	50	2	10	1728	169 514 017	1	2.230	169 514 037	1	3.111



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



**ABS Diaphragm valve type 515**  
With solvent cement spigots metric

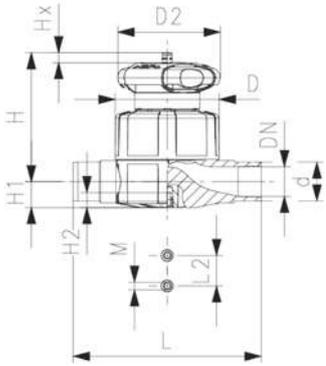
**Model:**

- 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

\* O-Ring material: FKM



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	SP Weight (kg)	PTFE/ EPDM* Code	SP Weight (kg)
20	15	½	10	125	<b>169 515 012</b>	1	0.308	<b>169 515 032</b>
25	20	¾	10	271	<b>169 515 013</b>	1	0.400	<b>169 515 033</b>
32	25	1	10	481	<b>169 515 014</b>	1	0.509	<b>169 515 034</b>
40	32	1 ¼	10	759	<b>169 515 015</b>	1	1.143	<b>169 515 035</b>
50	40	1 ½	10	1263	<b>169 515 016</b>	1	2.112	<b>169 515 036</b>
63	50	2	10	1728	<b>169 515 017</b>	1	1.805	<b>169 515 037</b>

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



**ABS Diaphragm valve type 317 ABS**  
**With flanges metric**

**Model:**

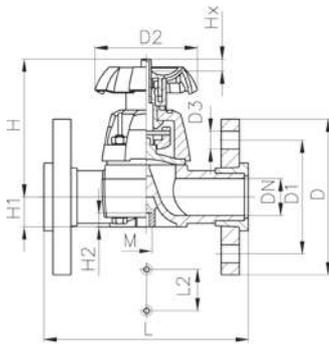
- Flat sealing faces
- DN 80-150 with fixed flange
- Overall length according to EN 558
- Other dimensions available on request
- Minimum temperature: - 30°C

**Option:**

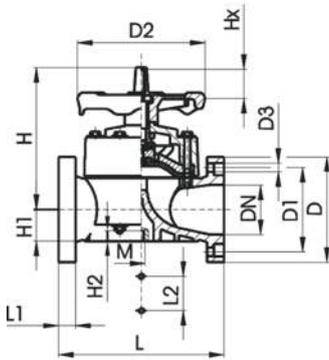
- Handwheel lockable DN15-65 (basic version not lockable)

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

	d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
	75	65	2 ½	10	992	<b>169 317 423</b>	4.731
*	90	80	3	10	1700	<b>169 317 024</b>	8.350
	110	100	4	6	2700	<b>169 317 025</b>	11.669



DN 15-65



DN 80-100

	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
	75	185	145	152	18	201	46	15	290		70	M8	30	2 ½
*	90	200	160	270	18	265	57	23	310	35	120	M12	40	3
	110	225	180	270	18	304	69	23	350	35	120	M12	50	4

	d (mm)	AL
	75	4
*	90	8
	110	8

# Butterfly Valves

## Butterfly Valves Type 567



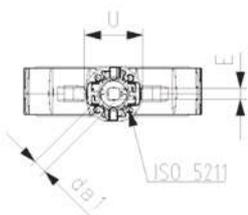
**Wafer-style intermediate installation butterfly valve type 567 ABS**  
**Bare shaft**  
**Flange standard metric/ANSI/BS/JIS**

**Model:**

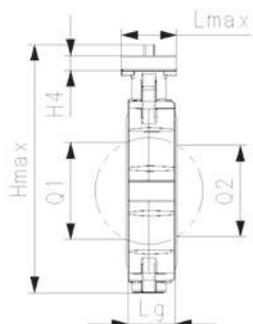
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 according to DIN/ISO 5211

**Note:**

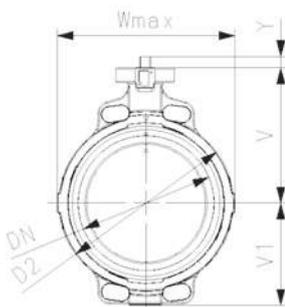
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on [www.gfps.com](http://www.gfps.com)



d	Size	DN	PN	kv-value	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	( $\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	740	<b>169 567 802</b>	0.763
75	2 ½	65	10	1500	<b>169 567 803</b>	0.859
90	3	80	10	2400	<b>169 567 804</b>	0.999
110	4	100	10	3800	<b>169 567 805</b>	1.535
140	5	125	10	8600	<b>169 567 806</b>	2.018
160	6	150	10	11400	<b>169 567 807</b>	2.858
225	8	200	10	19900	<b>169 567 808</b>	4.129
280	10	250	10	34000	<b>169 567 809</b>	11.600
315	12	300	10	50000	<b>169 567 810</b>	16.000



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	Y	E	da1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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





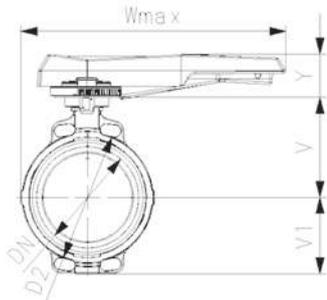
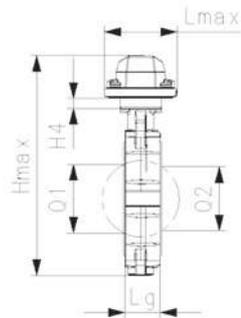
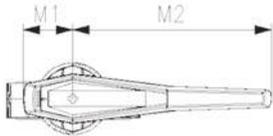
**Wafer-style intermediate installation butterfly valve type 567 ABS**  
**With hand lever**  
**Flange standard metric/ANSI/BS/JIS**

**Model:**

- 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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
63	2	50	10	740	<b>169 567 002</b>	1.187
75	2 ½	65	10	1500	<b>169 567 003</b>	1.282
90	3	80	10	2400	<b>169 567 004</b>	1.420
110	4	100	10	3800	<b>169 567 005</b>	2.020
140	5	125	10	8600	<b>169 567 006</b>	2.536
160	6	150	10	11400	<b>169 567 007</b>	3.337
225	8	200	10	19900	<b>169 567 008</b>	5.808
280	10	250	10	34000	<b>169 567 009</b>	14.328
315	12	300	10	50000	<b>169 567 010</b>	18.899

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	Y	M1	M2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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 ABS

With gear box

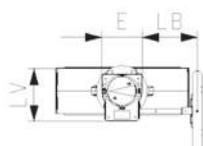
Flange standard metric/ANSI/BS/JIS

### Model:

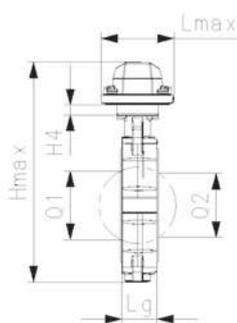
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

### Note:

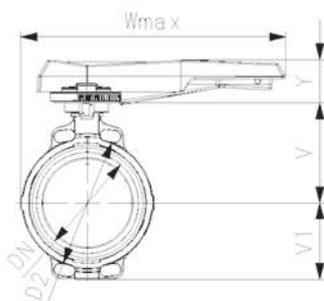
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on [www.gfps.com](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
63	2	50	10	740	<b>169 567 022</b>	3.078
75	2 ½	65	10	1500	<b>169 567 023</b>	3.201
90	3	80	10	2400	<b>169 567 024</b>	3.259
110	4	100	10	3800	<b>169 567 025</b>	3.493
140	5	125	10	8600	<b>169 567 026</b>	4.526
160	6	150	10	11400	<b>169 567 027</b>	5.118
225	8	200	10	19900	<b>169 567 028</b>	6.389
280	10	250	10	34000	<b>169 567 029</b>	12.998
315	12	300	10	50000	<b>169 567 030</b>	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)	E (mm)	Y1 (mm)
63	319.4	169.1	240.2	90	133.3	23	78.8	45	104	40		61.2	80	
75	332.3	169.1	247.3	90	139.9	23	85.1	46	115	54	35	61.2	80	
90	344.1	169.1	249.4	90	145.6	23	91.2	49	131	67	50	61.2	80	
110	379.4	169.1	261.5	90	166.4	23	105.7	56	161	88	74	61.2	80	
140	406.1	169.1	274.5	90	180.0	23	118.8	64	187	113	97	61.2	80	
160	427.2	169.1	288.5	90	189.0	23	130.9	72	215	139	123	61.2	80	
225	476.1	169.1	267.0	90	210.5	23	158.3	73	267	178	169	61.2	80	
280	613.0	212.6	329.0	125	262.6	23	206.1	113	329	210	207	68.4	100	17.0
315	657.4	212.6	380.4	125	284.3	23	228.8	113	379	256	253	68.4	100	17.0



d (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	200	130.0	134.0
315	200	130.0	134.0



**ABS Wafer-style intermediate installation butterfly valve type 240**  
**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

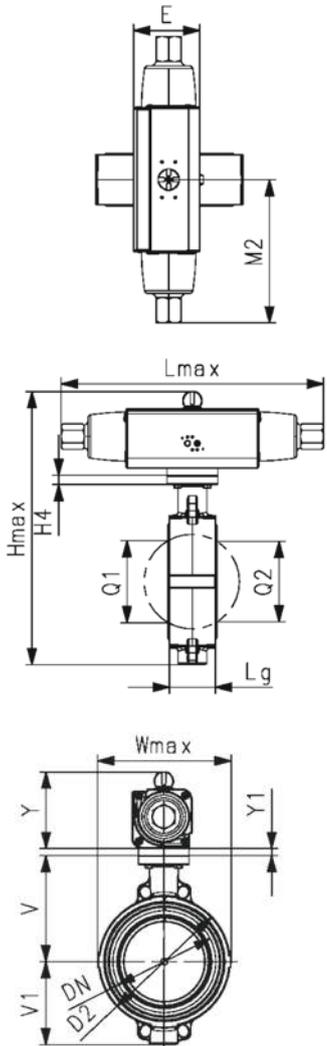
**Note:**

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](http://www.gfps.com)

d	Size	DN	PN	kv-value	EPDM	SP	Weight
(mm)	(inch)	(mm)	(bar)	( $\Delta p=1$ bar)	Code		(kg)
				(l/min)			
63	2	50	10	740	199 240 402	1	3.371
75	2 ½	65	10	1500	199 240 403	1	3.100
90	3	80	10	2400	199 240 404	1	3.399
110	4	100	10	3800	199 240 405	1	5.133
140	5	125	10	8600	199 240 406	1	6.826
160	6	150	10	11400	199 240 407	1	9.779
225	8	200	10	19900	199 240 408	1	13.529
280	10	250	10	34000	199 240 409	1	28.200
315	12	300	5	50000	199 240 410	1	36.200

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	Y	E	Y1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	M2
(mm)	(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





**ABS Wafer-style intermediate installation butterfly valve type 240**  
**With pneumatic actuator - fail safe to open (FO)**  
**Without manual override**  
**Flange standard metric/ANSI/BS/JIS**

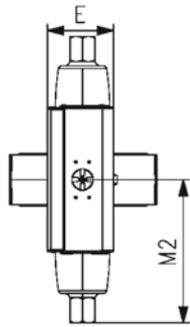
**Model:**

- 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

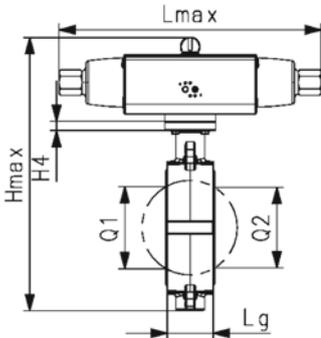
**Note:**

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](http://www.gfps.com)

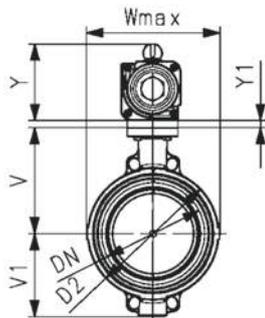
d	Size	DN	PN	kv-value	EPDM	SP	Weight
(mm)	(inch)	(mm)	(bar)	( $\Delta p=1$ bar)	Code		(kg)
				(l/min)			
63	2	50	10	740	199 240 422	1	3.371
75	2 ½	65	10	1500	199 240 423	1	3.467
90	3	80	10	2400	199 240 424	1	3.399
110	4	100	10	3800	199 240 425	1	5.133
140	5	125	10	8600	199 240 426	1	6.826
160	6	150	10	11400	199 240 427	1	9.779
225	8	200	10	19900	199 240 428	1	13.529



d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	Y	E	Y1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	325.3	274.4	118.4	90	133.3	23	78.8	45	104	40		98.2	70.4	15
75	338.2	274.4	132.5	90	139.9	23	85.1	46	115	54	35	98.2	70.4	15
90	362.9	325.2	136.8	90	145.6	23	91.2	49	131	67	50	111.1	83.3	15
110	386.9	359.6	161.0	90	166.4	23	105.7	56	161	88	74	114.8	87.0	
140	448.3	418.0	187.0	90	180.0	23	118.8	64	187	113	97	149.5	107.5	
160	473.0	434.0	215.0	90	189.0	23	130.9	72	215	139	123	153.1	111.1	
225	528.8	498.4	267.0	90	210.5	23	158.3	73	267	178	169	160.0	118.0	



d	M2
(mm)	(mm)
63	137.2
75	137.2
90	162.6
110	179.8
140	209.0
160	217.0
225	249.2





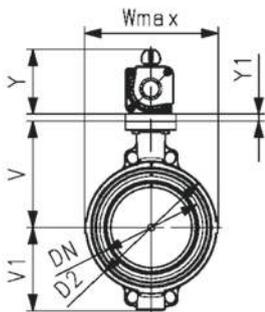
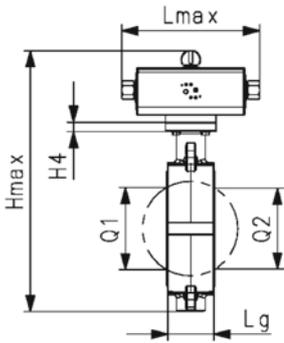
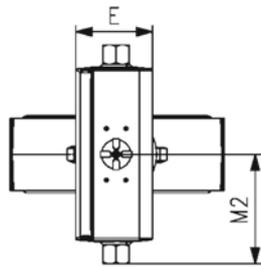
**Wafer-style intermediate installation butterfly valve type 240 ABS**  
**With pneumatic actuator - double acting (DA)**  
**Without manual override**  
**Flange standard metric/ANSI/BS/JIS**

**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](http://www.gfps.com)



d	Size	DN	PN	kv-value	EPDM	SP	Weight
(mm)	(inch)	(mm)	(bar)	( $\Delta p=1$ bar)	Code		(kg)
				(l/min)			
63	2	50	10	740	199 240 442	1	2.221
75	2 ½	65	10	1500	199 240 443	1	2.317
90	3	80	10	2400	199 240 444	1	2.730
110	4	100	10	3800	199 240 445	1	3.385
140	5	125	10	8600	199 240 446	1	4.076
160	6	150	10	11400	199 240 447	1	6.258
225	8	200	10	19900	199 240 448	1	7.529

d	Hmax	Lmax	Wmax	U	V	H4	V1	Lg	D2	Q1	Q2	Y	E	Y1
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	319.4	196.2	118.4	90	133.3	23	78.8	45	104	40		92.3	64.5	15
75	332.3	196.2	132.5	90	139.9	23	85.1	46	115	54	35	92.3	64.5	15
90	350.0	205.6	136.8	90	145.6	23	91.2	49	131	67	50	98.2	70.4	15
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	

d	M2
(mm)	(mm)
63	98.1
75	98.1
90	102.8
110	121.0
140	121.0
160	145.0
225	145.0



**ABS Wafer-style intermediate installation butterfly valve type 145**  
**With electric actuator 230V**  
**With manual override**  
**Flange standard metric/ANSI/BS/JIS**

**Model:**

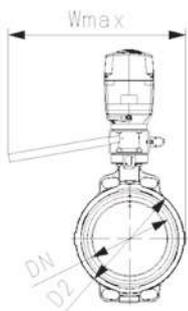
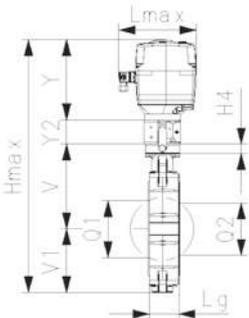
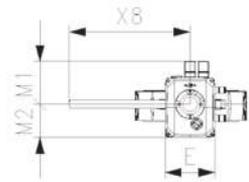
- Voltage 100-230V, 50-60Hz
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, 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](http://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	<b>199 145 482</b>	5.678
75	2 ½	65	10	1500	<b>199 145 483</b>	5.781
90	3	80	10	2400	<b>199 145 484</b>	5.859
110	4	100	10	3800	<b>199 145 485</b>	6.395
140	5	125	10	8600	<b>199 145 486</b>	5.389
160	6	150	10	11400	<b>199 145 487</b>	7.718
225	8	200	10	19900	<b>199 145 488</b>	13.529

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 240 ABS  
FC (Fail safe to close)  
Flange standard metric**

**Model:**

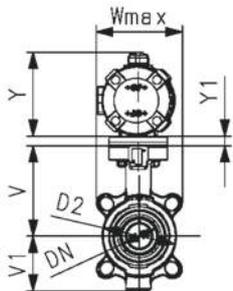
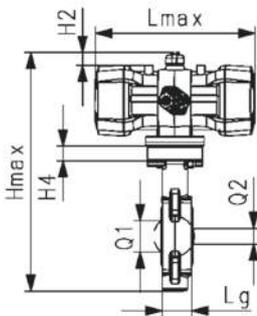
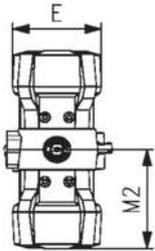
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

**Option:**

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- 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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)
63	2	50	<b>199 240 920</b>	1	3.371
75	2 ½	65	<b>199 240 921</b>	1	3.100
90	3	80	<b>199 240 922</b>	1	3.399
110	4	100	<b>199 240 923</b>	1	5.133
140	5	125	<b>199 240 924</b>	1	6.826

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	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50



## Wafer-style intermediate installation butterfly valve type 240 ABS

FO (Fail safe to open)

Flange standard metric

### Model:

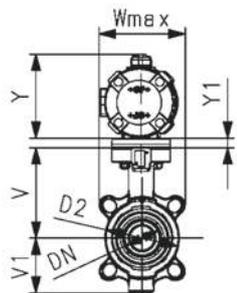
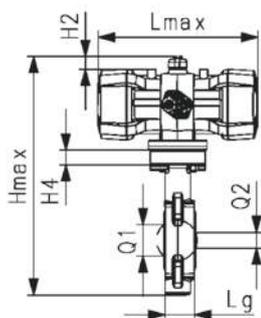
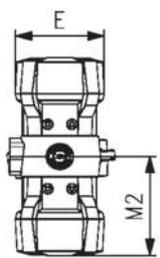
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according to VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90°(<) 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

### Option:

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- 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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)
63	2	50	199 240 930	1	3.371
75	2 ½	65	199 240 931	1	3.467
90	3	80	199 240 932	1	3.399
110	4	100	199 240 933	1	5.133
140	5	125	199 240 934	1	6.826

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	338.1	245.5	118.4	90	133.3	23	78.8	45	104	40		125	111	119.5
75	351.0	245.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	382.8	343.0	136.8	90	145.6	23	91.2	49	131	67	50	160	131	141.5
110	403.1	343.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	343.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5

d (mm)	Y1 (mm)	M2 (mm)
63	15	122.75
75	15	122.75
90	15	171.50
110		171.50
140		171.50



**Wafer-style intermediate installation butterfly valve type 240 ABS  
DA (Double acting)  
Flange standard metric**

**Model:**

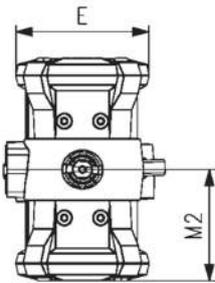
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Control pressure supply through integrated NAMUR interface according VDI/VDE 3845 with 4.2 bar (60.9 psi)
- Control time 90° < 1-2s
- For easy installation and removal
- Full plastic solution (actuator housing made of PP-GF)
- Visual position indicator

**Option:**

- Positioner RPC, RPC D, RPC PID
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)
- Individual configuration of the valve

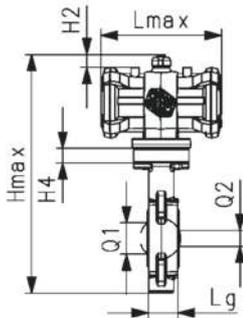
**Note:**

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](http://www.gfps.com)

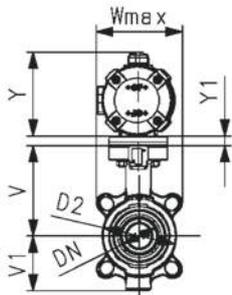


d (mm)	Size (inch)	DN (mm)	EPDM Code	SP	Weight (kg)
63	2	50	<b>199 240 072</b>	1	2.221
75	2 ½	65	<b>199 240 073</b>	1	2.317
90	3	80	<b>199 240 074</b>	1	2.730
110	4	100	<b>199 240 075</b>	1	3.385
140	5	125	<b>199 240 076</b>	1	4.076

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	338.1	183.5	118.4	90	133.3	23	78.8	45	104	40	0	125	111	119.5
75	351.0	183.5	132.5	90	139.9	23	85.1	46	115	54	35	145	111	119.5
90	362.8	183.5	136.8	90	145.6	23	91.2	49	131	67	50	160	111	119.5
110	403.1	261.0	161.0	90	166.4	23	105.7	56	161	88	74	180	131	141.5
140	429.8	261.0	187.0	90	180.0	23	118.8	64	187	113	97	210	131	141.5



d (mm)	Y1 (mm)	M2 (mm)
63	15	91.75
75	15	91.75
90	15	91.75
110		130.50
140		130.50





## ABS Wafer-style intermediate installation butterfly valve type 145

With electric actuator 24V

With manual override

Flange standard metric/ANSI/BS/JIS

### Model:

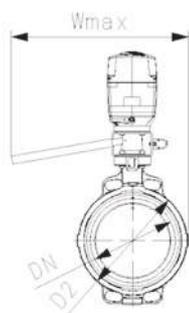
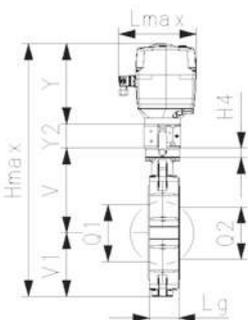
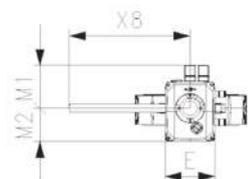
- Voltage 24V AC/DC
- Factory set control range 90°<
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 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](http://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	1470	<b>199 145 522</b>	4.161
75	2 ½	65	10	2200	<b>199 145 523</b>	4.257
90	3	80	10	3000	<b>199 145 524</b>	5.859
110	4	100	10	6500	<b>199 145 525</b>	6.395
140	5	125	10	11500	<b>199 145 526</b>	5.389
160	6	150	10	16600	<b>199 145 527</b>	9.910
225	8	200	10	39600	<b>199 145 528</b>	13.529

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	75	78.8	45	104	40		189.3	122.3	297.5
75	474.3	190	363.8	90	139.9	75	85.1	46	115	54	35	189.3	122.3	297.5
90	486.1	190	365.9	90	145.6	60	91.2	49	131	67	50	189.3	122.3	297.5
110	521.4	190	378.0	90	166.4	60	105.7	56	161	88	74	189.3	122.3	297.5
140	548.1	190	391.0	90	180.0	60	118.8	64	187	113	97	189.3	122.3	297.5
160	569.2	190	405.0	90	189.0	60	130.9	72	215	139	123	189.3	122.3	297.5
225	628.1	190	431.0	90	210.5	60	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



**ABS Wafer-style intermediate installation butterfly valve type 145**  
**With electric actuator 24V**  
**Without manual override**  
**Flange standard metric/ANSI/BS/JIS**

**Model:**

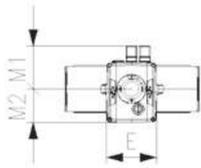
- Voltage 24V AC/DC
- Factory set control range 90°<-)
- Heating element, position feedback (Open/Close/ Middle)
- Overall length according to EN 558, ISO 5752 (DN50-200 line 25, DN250-300 line 16)
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

**Option:**

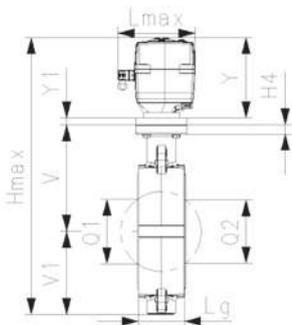
- Other valve and actuator configurations available
- Optional accessories: Fail-safe return unit, Monitoring board, Position controller, Profibus DP board

**Note:**

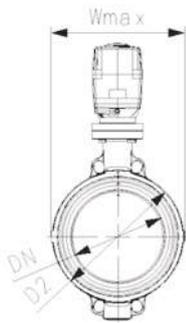
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on [www.gfps.com](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)
63	2	50	10	740	199 145 542	4.178
75	2 ½	65	10	1500	199 145 543	3.217
90	3	80	10	2400	199 145 544	4.359
110	4	100	10	3800	199 145 545	4.895
140	5	125	10	8600	199 145 546	4.376
160	6	150	10	11400	199 145 547	6.218
225	8	200	10	19900	199 145 548	12.029
280	10	250	6	34000	199 145 549	14.334
315	12	300	4	50000	199 145 550	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 Type 578



## ABS Lug-style end installation butterfly valve type 578

Bare shaft

Flange standard metric

### Model:

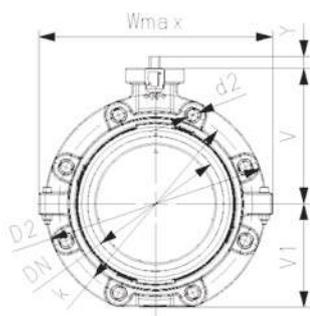
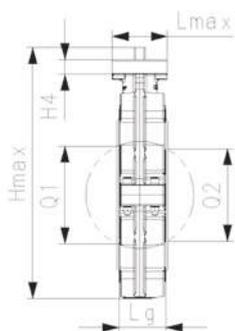
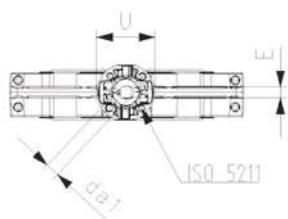
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211

### 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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
63	2	50	10	740	169 578 802	1	1.299
75	2 ½	65	10	1500	169 578 803	1	1.456
90	3	80	10	2400	169 578 804	1	1.701
110	4	100	10	3800	169 578 805	1	2.606
140	5	125	10	8600	169 578 806	1	4.120
160	6	150	10	11400	169 578 807	1	5.881
225	8	200	10	19900	169 578 808	1	7.125
280	10	250	10	34000	169 578 809	1	17.880
315	12	300	10	50000	169 578 810	1	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 (mm)	k (mm)	da1 (mm)
63	238.3	84.8	159.5	90	133.3	23	78.8	44.7	160	40		M16	125	13.5
75	251.2	84.8	166.1	90	139.9	23	85.1	45.7	180	54	35	M16	145	13.5
90	263.0	84.8	171.8	90	145.6	23	91.2	48.7	195	67	50	M16	160	13.5
110	288.9	84.8	181.4	90	166.0	23	107.5	55.6	226	88	74	M16	180	17.3
140	318.1	84.8	195.4	90	180.0	23	122.7	63.5	258	113	97	M16	210	17.3
160	341.9	84.8	207.4	90	189.0	23	134.5	71.5	284	139	123	M20	240	21.1
225	390.4	84.8	228.9	90	210.5	23	161.5	72.5	341	178	169	M20	295	21.1
280	511.5	125.0	304.6	125	264.4	23	206.9	113.2	412	210	207	M20	350	27.0
315	560.9	125.0	325.4	125	285.2	23	235.5	114.6	482	256	253	M20	400	27.0



**ABS Lug-style end installation butterfly valve type 578**  
**With hand lever**  
**Flange standard metric**

**Model:**

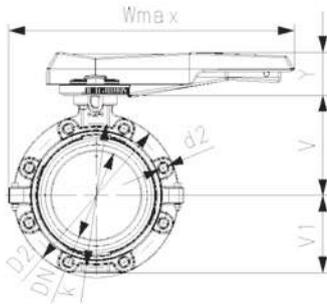
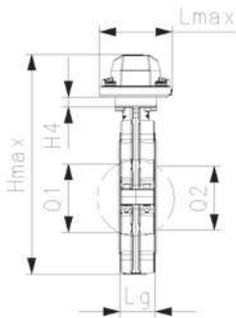
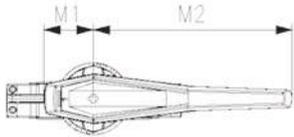
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

**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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
63	2	50	10	740	169 578 002	1	1.800
75	2 ½	65	10	1500	169 578 003	1	1.895
90	3	80	10	2400	169 578 004	1	2.251
110	4	100	10	3800	169 578 005	1	3.146
140	5	125	10	8600	169 578 006	1	4.660
160	6	150	10	11400	169 578 007	1	6.430
225	8	200	10	19900	169 578 008	1	8.625
280	10	250	10	34000	169 578 009	1	19.528
315	12	300	10	50000	169 578 010	1	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 (mm)	k (mm)	M1 (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		M16	125	63.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	M16	145	63.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	M16	160	63.7
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	M16	180	63.7
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	M16	210	63.7
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	M20	240	63.7
225	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	M20	295	101.7
280	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	M20	350	101.7
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	M20	400	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



## ABS Lug-style end installation butterfly valve type 578

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

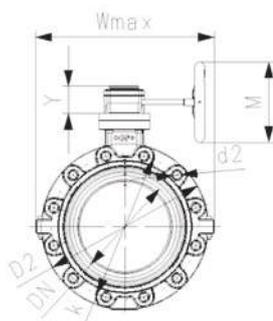
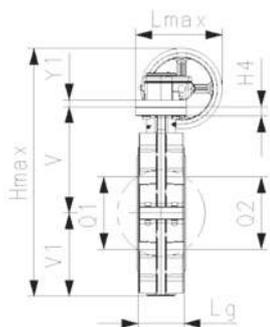
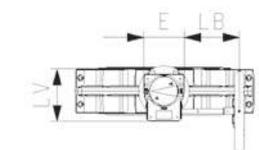
### Option:

- 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](http://www.gfps.com)

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
63	2	50	10	740	169 578 022	1	3.467
75	2 ½	65	10	1500	169 578 023	1	3.610
90	3	80	10	2400	169 578 024	1	3.929
110	4	100	10	3800	169 578 025	1	4.834
140	5	125	10	8600	169 578 026	1	6.348
160	6	150	10	11400	169 578 027	1	8.109
225	8	200	10	19900	169 578 028	1	9.353
280	10	250	10	34000	169 578 029	1	19.528
315		300	10	50000	169 578 030	1	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 (mm)	k (mm)	Y (mm)
63	319.4	169.1	263.5	90	133.3	23	78.8	44.7	160	165		M16	125	61.2
75	332.3	169.1	272.0	90	139.9	23	85.1	45.7	180	182	35	M16	145	61.2
90	344.1	169.1	286.0	90	145.6	23	91.2	48.7	195	210	50	M16	160	61.2
110	380.8	169.1	301.0	90	166.0	23	107.5	55.6	226	240	74	M16	180	61.2
140	410.0	169.1	317.0	90	180.0	23	122.7	63.5	258	272	97	M16	210	61.2
160	430.8	169.1	321.0	90	189.0	23	134.5	71.5	284	300	123	M20	240	61.2
225	479.3	169.1	360.0	90	210.5	23	161.5	72.5	341	178	169	M20	295	61.2
280	615.6	212.6	440.0	125	264.4	23	206.9	113.2	412	210	207	M20	350	68.4
315	665.0	212.6	510.0	125	285.2	23	235.5	114.6	482	256	253	M20	400	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
225	80		160	112.3	129.5
280	100	17	200	130.0	134.0
315	100	17	200	130.0	134.0



## ABS Lug-style end installation butterfly valve type 578

Bare shaft

Flange standard ANSI/ASME

### Model:

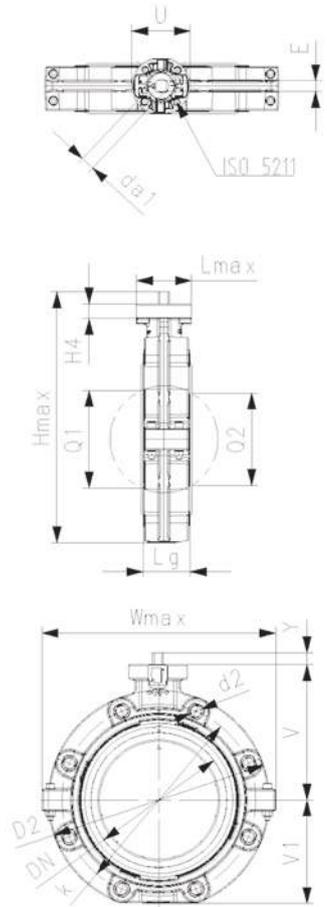
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Interface F07 according to DIN/ISO 5211

### 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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP Weight (kg)
63	2	50	10	740	<b>169 578 902</b>	1 1.299
75	2 ½	65	10	1500	<b>169 578 903</b>	1 1.456
90	3	80	10	2400	<b>169 578 904</b>	1 1.701
110	4	100	10	3800	<b>169 578 905</b>	1 2.606
140	5	125	10	8600	<b>169 578 906</b>	1 4.120
160	6	150	10	11400	<b>169 578 907</b>	1 5.881
225	8	200	10	19900	<b>169 578 908</b>	1 7.125
280	10	250	10	34000	<b>169 578 909</b>	1 17.880
315	12	300	10	50000	<b>169 578 910</b>	1 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 (mm)	k (mm)
63	238.3	84.8	159.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	251.2	84.8	166.1	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	263.0	84.8	171.8	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	288.9	84.8	181.4	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	318.1	84.8	195.4	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9
160	341.9	84.8	207.4	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3
225	390.4	84.8	228.9	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5
280	511.5	125.0	304.6	125	264.4	23	206.9	113.2	412	256	253	UNC 7/8	362.0
315	560.9	125.0	325.4	125	285.2	23	235.5	114.6	482	210	207	UNC 7/8	431.8

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



**ABS Lug-style end installation butterfly valve type 578**  
**With hand lever**  
**Flange standard ANSI/ASME**

**Model:**

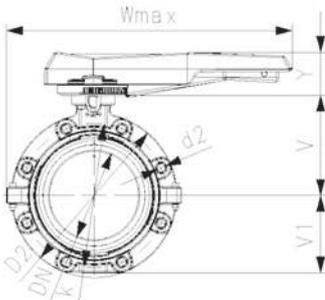
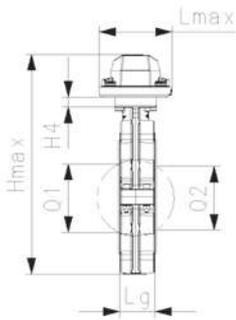
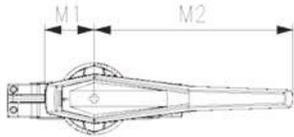
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

**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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
63	2	50	10	740	<b>169 578 102</b>	1	1.800
75	2 ½	65	10	1500	<b>169 578 103</b>	1	1.895
90	3	80	10	2400	<b>169 578 104</b>	1	2.251
110	4	100	10	3800	<b>169 578 105</b>	1	3.146
140	5	125	10	8600	<b>169 578 106</b>	1	4.660
160	6	150	10	11400	<b>169 578 107</b>	1	6.430
200	8	200	10	19900	<b>169 578 108</b>	1	8.625
250	10	250	10	34000	<b>169 578 109</b>	1	19.528
315	12	300	10	50000	<b>169 578 110</b>	1	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 (mm)	k (mm)
63	278.9	115.2	287.8	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	291.8	115.2	296.3	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	303.6	115.2	310.3	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	343.6	115.2	375.2	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	372.8	115.2	391.2	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9
160	393.6	115.2	395.2	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3
200	458.1	149.4	588.1	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5
250	557.6	149.4	628.1	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	362.0
315	607.0	149.4	663.1	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	431.8

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



**ABS Lug-style end installation butterfly valve type 578**  
**With gear box**  
**Flange standard ANSI/ASME**

**Model:**

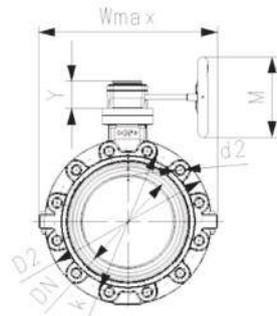
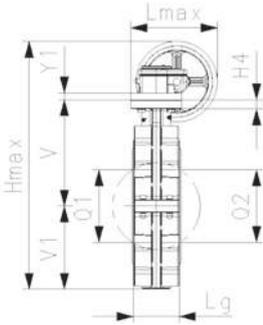
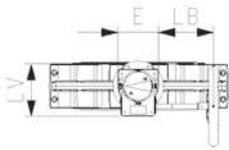
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150

**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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)
63	2	50	10	740	<b>169 578 122</b>	1	3.467
75	2 ½	65	10	1500	<b>169 578 123</b>	1	3.610
90	3	80	10	2400	<b>169 578 124</b>	1	3.929
110	4	100	10	3800	<b>169 578 125</b>	1	4.834
140	5	125	10	8600	<b>169 578 126</b>	1	6.348
160	6	150	10	11400	<b>169 578 127</b>	1	8.109
200	8	200	10	19900	<b>169 578 128</b>	1	9.353
250	10	250	10	34000	<b>169 578 129</b>	1	19.528
315	12	300	10	50000	<b>169 578 130</b>	1	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 (mm)	k (mm)
63	319.4	169.1	263.5	90	133.3	23	78.8	44.7	160	40		UNC 5/8	120.7
75	332.3	169.1	272.0	90	139.9	23	85.1	45.7	180	54	35	UNC 5/8	139.7
90	344.1	169.1	286.0	90	145.6	23	91.2	48.7	195	67	50	UNC 5/8	152.4
110	380.8	169.1	301.0	90	166.0	23	107.5	55.6	226	88	74	UNC 5/8	190.5
140	410.0	169.1	317.0	90	180.0	23	122.7	63.5	258	113	97	UNC 3/4	215.9
160	430.8	169.1	321.0	90	189.0	23	134.5	71.5	284	139	123	UNC 3/4	241.3
200	479.3	169.1	360.0	90	210.5	23	161.5	72.5	341	178	169	UNC 3/4	298.5
250	615.6	212.6	440.0	125	264.4	23	206.9	113.2	412	210	207	UNC 7/8	362.0
315	665.0	212.6	510.0	125	285.2	23	235.5	114.6	482	256	253	UNC 7/8	431.8

d (mm)	Y (mm)	E (mm)	Y1 (mm)	M (mm)	LV (mm)	LB (mm)
63	61.2	80		160	112.3	129.5
75	61.2	80		160	112.3	129.5
90	61.2	80		160	112.3	129.5
110	61.2	80		160	112.3	129.5
140	61.2	80		160	112.3	129.5
160	61.2	80		160	112.3	129.5
200	61.2	80		160	112.3	129.5
250	61.2	100	17.0	200	130.0	134.0
315	61.2	100	17.0	200	130.0	134.0



**Wafer-style, intermediate installation butterfly valve type 565 PVDF/PA-GF**

**Bare shaft**

**Flange standard metric/ANSI/BS/JIS Suitable for ABS, PVC-U, PVC-C, ecoFIT, COOL-FIT and PROGEF Systems**

**Model:**

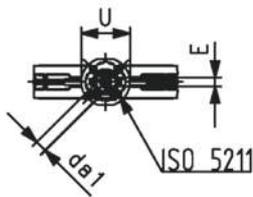
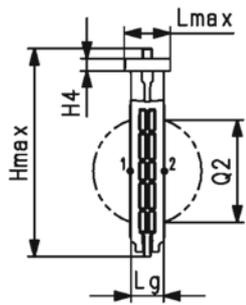
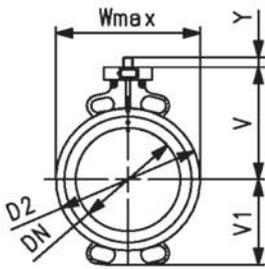
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water and water treatment applications (e.g. sea water, drinking water and industrial water)

**Option:**

- Individual configuration of the valve possible
- Hand (lockable), 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](http://www.gfps.com)



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	Acc.to ISO 5211	EPDM Code	SP	Weight (kg)
63	50	2	16	1445	F07	<b>199 565 100</b>	1	0.9
75	65	2 ½	16	2530	F07	<b>199 565 101</b>	1	1.1
90	80	3	16	4020	F07	<b>199 565 102</b>	1	1.3
110	100	4	16	5850	F07	<b>199 565 103</b>	1	2.0
140	125	5	16	11900	F07	<b>199 565 104</b>	1	2.6
160	150	6	16	18050	F07	<b>199 565 105</b>	1	3.7
225	200	8	10	43667	F07	<b>199 565 106</b>	1	4.7
280	250	10	10	62333	F10	<b>199 565 107</b>	1	8.8
315	300	12	6	94500	F10	<b>199 565 108</b>	1	12.6

d (mm)	FKM Code	SP	Weight (kg)
63	<b>199 565 120</b>	1	1.0
75	<b>199 565 121</b>	1	1.2
90	<b>199 565 122</b>	1	1.4
110	<b>199 565 123</b>	1	2.2
140	<b>199 565 124</b>	1	2.9
160	<b>199 565 125</b>	1	3.8
225	<b>199 565 126</b>	1	5.2
280	<b>199 565 127</b>	1	9.5
315	<b>199 565 128</b>	1	13.7

d (mm)	D2 (mm)	Wmax (mm)	Lmax (mm)	Hmax (mm)	H4 (mm)	V (mm)	V1 (mm)	Lg (mm)	da1 (mm)	E (mm)	U (mm)	Y (mm)	Q2 (mm)
63	100.0	118.5	85.5	222.5	23.0	133.5	63.0	43.0	14.1	11.0	90.0	27.0	28.5
75	121.0	132.5	85.5	248.5	23.0	140.0	82.0	46.0	14.1	11.0	90.0	27.0	44.0
90	138.0	138.0	85.5	261.0	23.0	146.0	89.0	46.0	14.1	11.0	90.0	27.0	63.5
110	158.5	158.5	85.5	286.0	23.0	166.5	104.0	52.0	18.1	14.0	90.0	16.0	84.0
140	187.0	187.0	85.5	313.5	23.0	180.0	118.0	56.0	18.1	14.0	90.0	16.0	110.5
160	213.0	213.0	85.5	337.5	23.0	189.0	130.5	56.0	22.2	17.0	90.0	19.0	137.5
225	267.0	267.0	85.5	387.0	23.0	209.5	159.0	60.0	22.2	17.0	90.0	18.5	190.5
280	325.5	325.5	125.0	498.5	23.0	262.5	195.5	68.0	28.2	22.0	125.0	40.5	239.0
315	380.0	380.0	125.0	555.0	23.0	284.5	230.5	78.0	28.2	22.0	125.0	40.5	285.5



**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:**

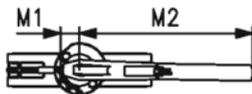
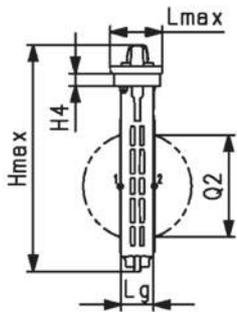
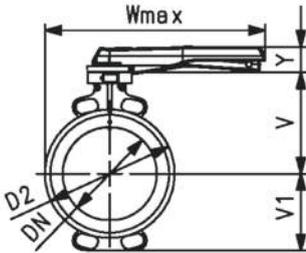
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Lockable ergonomic 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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	EPDM Code	SP Weight (kg)	FKM Code	SP Weight (kg)		
63	2	50	16	1445	199 565 000	1	1.3	199 565 020	1	1.4
75	2 ½	65	16	2530	199 565 001	1	1.5	199 565 021	1	1.6
90	3	80	16	4020	199 565 002	1	1.7	199 565 022	1	1.8
110	4	100	16	5850	199 565 003	1	2.5	199 565 023	1	2.7
140	5	125	16	11900	199 565 004	1	3.1	199 565 024	1	3.3
160	6	150	16	18050	199 565 005	1	4.0	199 565 025	1	4.3
225	8	200	10	43667	199 565 006	1	5.3	199 565 026	1	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 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:**

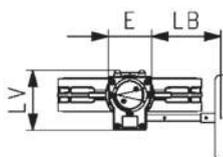
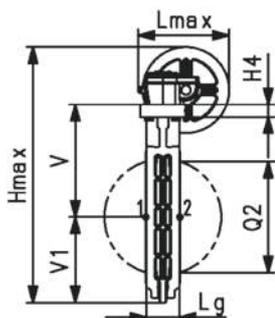
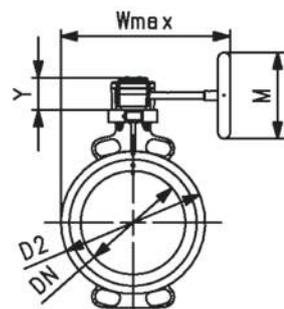
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Suitable for water 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](http://www.gfps.com)



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	FKM Code	SP	Weight (kg)
63	50	2	16	1445	<b>199 565 200</b>	1	3.0	<b>199 565 220</b>	1	3.1
75	65	2 ½	16	2530	<b>199 565 201</b>	1	3.2	<b>199 565 221</b>	1	3.3
90	80	3	16	4020	<b>199 565 202</b>	1	3.4	<b>199 565 222</b>	1	3.5
110	100	4	16	5850	<b>199 565 203</b>	1	4.2	<b>199 565 223</b>	1	4.3
140	125	5	16	11900	<b>199 565 204</b>	1	4.7	<b>199 565 224</b>	1	5.0
160	150	6	16	18050	<b>199 565 205</b>	1	5.5	<b>199 565 225</b>	1	5.8
225	200	8	10	43667	<b>199 565 206</b>	1	6.7	<b>199 565 226</b>	1	7.2
280	250	10	10	62333	<b>199 565 207</b>	1	12.7	<b>199 565 227</b>	1	13.4
315	300	12	6	94500	<b>199 565 208</b>	1	16.5	<b>199 565 228</b>	1	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 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:**

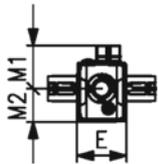
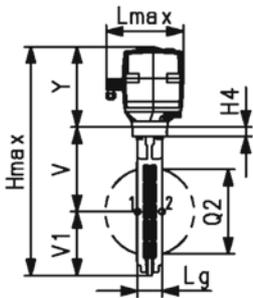
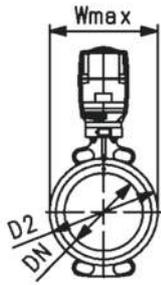
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 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](http://www.gfps.com)



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	Actuator	EPDM Code	SP	Weight (kg)
63	50	2	10	1445	EA45	<b>199 565 300</b>	1	3.3
75	65	2 ½	10	2530	EA120	<b>199 565 301</b>	1	4.6
90	80	3	10	4020	EA120	<b>199 565 302</b>	1	4.7
110	100	4	10	5850	EA120	<b>199 565 303</b>	1	5.6
140	125	5	10	11900	EA120	<b>199 565 304</b>	1	6.1
160	150	6	10	18050	EA250	<b>199 565 305</b>	1	8.7
225	200	8	10	43667	EA250	<b>199 565 306</b>	1	10.0
280	250	10	6	62333	EA250	<b>199 565 307</b>	1	14.5
315	300	12	4	94500	EA250	<b>199 565 308</b>	1	18.2

d (mm)	FKM Code	SP	Weight (kg)
63	<b>199 565 320</b>	1	3.4
75	<b>199 565 321</b>	1	4.7
90	<b>199 565 322</b>	1	4.8
110	<b>199 565 323</b>	1	5.8
140	<b>199 565 324</b>	1	6.4
160	<b>199 565 325</b>	1	9.0
225	<b>199 565 326</b>	1	10.5
280	<b>199 565 327</b>	1	15.2
315	<b>199 565 328</b>	1	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:**

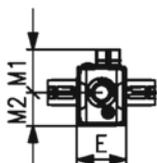
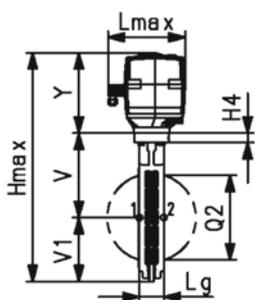
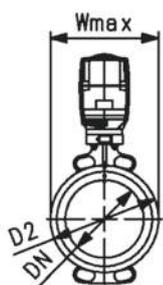
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 24V AC/DC
- 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](http://www.gfps.com)



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (L/min)	Actuator	EPDM Code	SP	Weight (kg)
63	50	2	10	1445	EA45	<b>199 565 400</b>	1	3.3
75	65	2 ½	10	2530	EA120	<b>199 565 401</b>	1	4.6
90	80	3	10	4020	EA120	<b>199 565 402</b>	1	4.7
110	100	4	10	5850	EA120	<b>199 565 403</b>	1	5.6
140	125	5	10	11900	EA120	<b>199 565 404</b>	1	6.1
160	150	6	10	18050	EA250	<b>199 565 405</b>	1	8.7
225	200	8	10	43667	EA250	<b>199 565 406</b>	1	10.0
280	250	10	6	62333	EA250	<b>199 565 407</b>	1	14.5
315	300	12	4	94500	EA250	<b>199 565 408</b>	1	18.2

d (mm)	FKM Code	SP	Weight (kg)
63	<b>199 565 420</b>	1	3.4
75	<b>199 565 421</b>	1	4.7
90	<b>199 565 422</b>	1	4.8
110	<b>199 565 423</b>	1	5.8
140	<b>199 565 424</b>	1	6.4
160	<b>199 565 425</b>	1	9.0
225	<b>199 565 426</b>	1	10.5
280	<b>199 565 427</b>	1	15.2
315	<b>199 565 428</b>	1	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:**

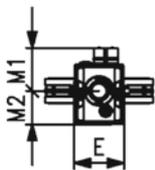
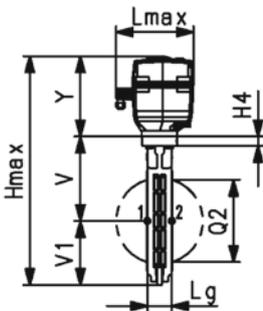
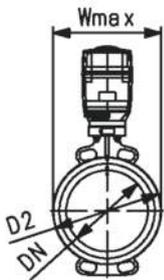
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 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:**

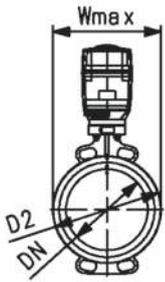
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on [www.gfps.com](http://www.gfps.com)



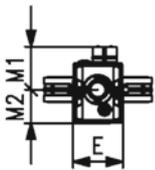
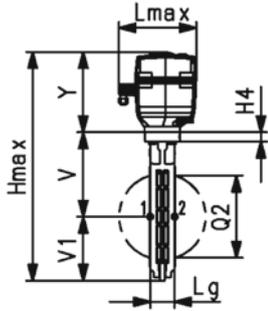
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	Actuator	EPDM Code	SP	Weight (kg)
63	50	2	10	1445	dEA45	<b>199 565 700</b>	1	4.3
75	65	2 ½	10	2530	dEA120	<b>199 565 701</b>	1	4.6
90	80	3	10	4020	dEA120	<b>199 565 702</b>	1	4.7
110	100	4	10	5850	dEA120	<b>199 565 703</b>	1	5.6
140	125	5	10	11900	dEA120	<b>199 565 704</b>	1	6.1
160	150	6	10	18050	dEA250	<b>199 565 705</b>	1	8.7
225	200	8	10	43667	dEA250	<b>199 565 706</b>	1	10.0
280	250	10	6	62333	dEA250	<b>199 565 707</b>	1	14.5
315	300	12	4	94500	dEA250	<b>199 565 708</b>	1	18.2

d (mm)	FKM Code	SP	Weight (kg)
63	<b>199 565 709</b>	1	4.4
75	<b>199 565 710</b>	1	4.7
90	<b>199 565 711</b>	1	4.8
110	<b>199 565 712</b>	1	5.8
140	<b>199 565 713</b>	1	6.4
160	<b>199 565 714</b>	1	9.0
225	<b>199 565 715</b>	1	10.5
280	<b>199 565 716</b>	1	15.2
315	<b>199 565 717</b>	1	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



<b>d</b>	<b>D2</b>	<b>Wmax</b>	<b>Hmax</b>	<b>Lmax</b>	<b>H4</b>	<b>V</b>	<b>V1</b>	<b>Lg</b>	<b>E</b>	<b>M1</b>	<b>M2</b>	<b>Y</b>	<b>Q2</b>
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
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:**

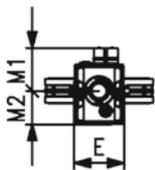
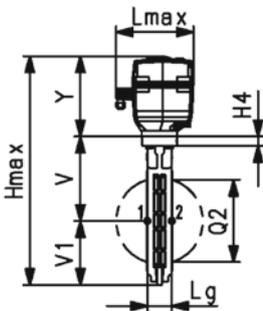
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 24V AC/DC
- 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:**

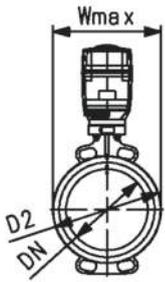
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on [www.gfps.com](http://www.gfps.com)



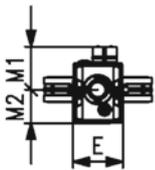
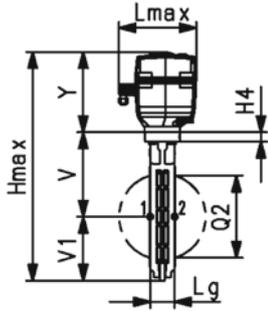
d	Size	DN	PN	kv-value	Actuator	EPDM	SP	Weight
(mm)	(inch)	(mm)	(bar)	( $\Delta p=1$ bar)		Code		(kg)
				(L/min)				
63	2	50	10	1445	dEA45	<b>199 565 718</b>	1	4.3
75	2 ½	65	10	2530	dEA120	<b>199 565 719</b>	1	4.6
90	3	80	10	4020	dEA120	<b>199 565 720</b>	1	4.7
110	4	100	10	5850	dEA120	<b>199 565 721</b>	1	5.6
140	5	125	10	11900	dEA120	<b>199 565 722</b>	1	6.1
160	6	150	10	18050	dEA250	<b>199 565 723</b>	1	8.7
225	8	200	10	43667	dEA250	<b>199 565 724</b>	1	10.0
280	10	250	6	62333	dEA250	<b>199 565 725</b>	1	14.5
315	12	300	4	94500	dEA250	<b>199 565 726</b>	1	18.2

d	FKM	SP	Weight
(mm)	Code		(kg)
63	<b>199 565 727</b>	1	4.4
75	<b>199 565 728</b>	1	4.7
90	<b>199 565 729</b>	1	4.8
110	<b>199 565 730</b>	1	5.8
140	<b>199 565 731</b>	1	6.4
160	<b>199 565 732</b>	1	9.0
225	<b>199 565 733</b>	1	10.5
280	<b>199 565 734</b>	1	15.2
315	<b>199 565 735</b>	1	19.4

d	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	E	M1	M2	Y	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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



<b>d</b>	<b>D2</b>	<b>Wmax</b>	<b>Hmax</b>	<b>Lmax</b>	<b>H4</b>	<b>V</b>	<b>V1</b>	<b>Lg</b>	<b>E</b>	<b>M1</b>	<b>M2</b>	<b>Y</b>	<b>Q2</b>
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
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:**

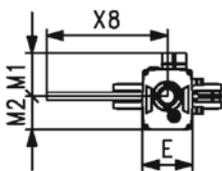
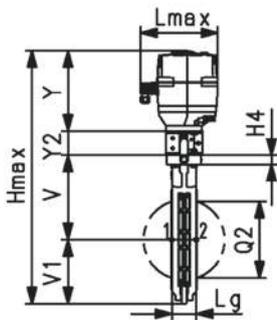
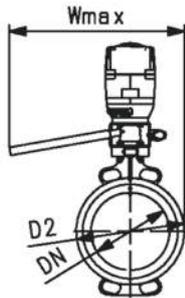
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 100-230V, 50-60Hz
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- With additional 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](http://www.gfps.com)

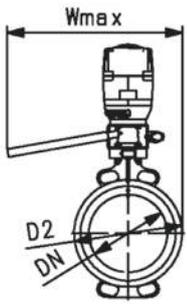


d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (L/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	EA120	<b>199 565 340</b>	1	5.5
75	2 ½	65	10	2530	EA120	<b>199 565 341</b>	1	5.8
90	3	80	10	4020	EA120	<b>199 565 342</b>	1	5.9
110	4	100	10	5850	EA120	<b>199 565 343</b>	1	6.6
140	5	125	10	11900	EA120	<b>199 565 344</b>	1	7.1
160	6	150	10	18050	EA250	<b>199 565 345</b>	1	9.7
225	8	200	10	43667	EA250	<b>199 565 346</b>	1	11.0

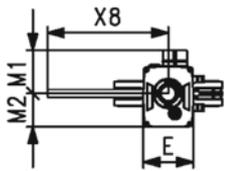
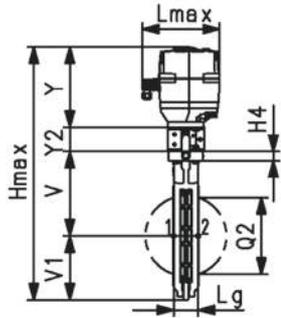
d (mm)	Size (inch)	FKM Code	SP	Weight (kg)
63	2	<b>199 565 360</b>	1	5.6
75	2 ½	<b>199 565 361</b>	1	5.9
90	3	<b>199 565 362</b>	1	6.0
110	4	<b>199 565 363</b>	1	6.8
140	5	<b>199 565 364</b>	1	7.4
160	6	<b>199 565 365</b>	1	10.0
225	8	<b>199 565 366</b>	1	11.5

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



<b>d</b>	<b>Size</b>	<b>Y</b>	<b>Y2</b>	<b>Q2</b>
(mm)	(inch)	(mm)	(mm)	(mm)
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:**

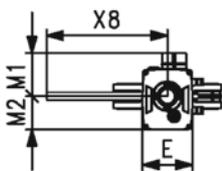
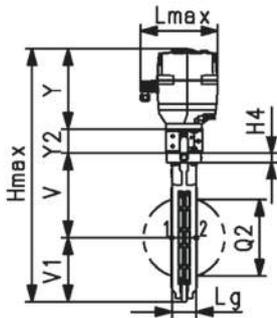
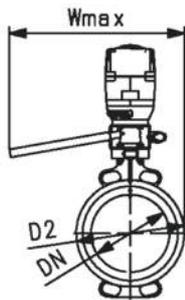
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Voltage 24V AC/DC
- Factory set control range 0-90°
- Heating element, position feedback (Open/Close/ Middle)
- Manual override integrated in electric actuator
- With additional 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](http://www.gfps.com)

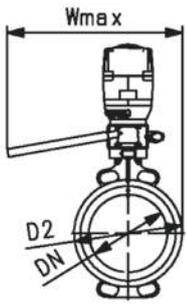


d	Size	DN	PN	kv-value	Actuator	EPDM	SP	Weight
(mm)	(inch)	(mm)	(bar)	( $\Delta p=1$ bar)		Code		(kg)
				(L/min)				
63	2	50	10	1445	EA120	199 565 440	1	5.5
75	2 ½	65	10	2530	EA120	199 565 441	1	5.8
90	3	80	10	4020	EA120	199 565 442	1	5.9
110	4	100	10	5850	EA120	199 565 443	1	6.6
140	5	125	10	11900	EA120	199 565 444	1	7.1
160	6	150	10	18050	EA250	199 565 445	1	9.7
225	8	200	10	43667	EA250	199 565 446	1	11.0

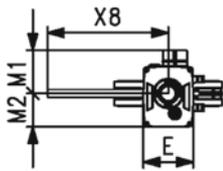
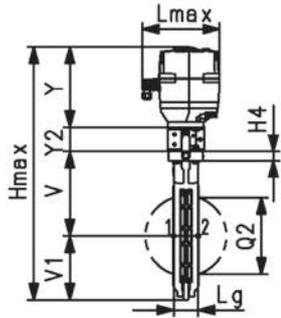
d	Size	FKM	SP	Weight
(mm)	(inch)	Code		(kg)
63	2	199 565 460	1	5.6
75	2 ½	199 565 461	1	5.9
90	3	199 565 462	1	6.0
110	4	199 565 463	1	6.8
140	5	199 565 464	1	7.4
160	6	199 565 465	1	10.0
225	8	199 565 466	1	11.5

d	Size	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	E	M1	M2	X8
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	Size	Y	Y2	Q2
(mm)	(inch)	(mm)	(mm)	(mm)
63	2	189.5	60	28.5
75	2 ½	189.5	60	44.0
90	3	189.5	60	63.5



<b>d</b>	<b>Size</b>	<b>Y</b>	<b>Y2</b>	<b>Q2</b>
(mm)	(inch)	(mm)	(mm)	(mm)
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:**

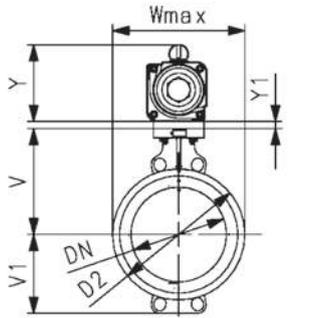
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 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:**

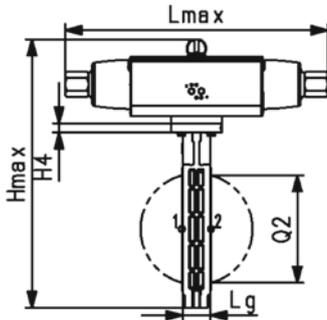
- Individual configuration of the valve possible
- Hand or electric actuators from GF
- Double sensor for electrical position feedback incl. LED feedback

**Note:**

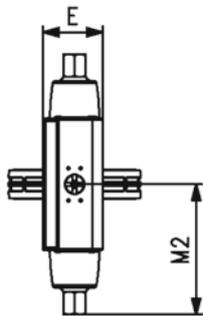
For some material combination (e.g. DN300 valves with PE/PP pipes) special flange adapters are needed. Please check the "Perfect flange connection tool" on [www.gfps.com](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (L/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PA30	<b>199 565 500</b>	1	3.2
75	2 ½	65	10	2530	PA30	<b>199 565 501</b>	1	3.5
90	3	80	10	4020	PA35	<b>199 565 502</b>	1	4.3
110	4	100	10	5850	PA40	<b>199 565 503</b>	1	5.9
140	5	125	10	11900	PA45	<b>199 565 504</b>	1	7.9
160	6	150	10	18050	PA50	<b>199 565 505</b>	1	10.7
225	8	200	10	43667	PA60	<b>199 565 506</b>	1	16.4
280	10	250	10	62333	PA65	<b>199 565 507</b>	1	25.5
315	12	300	6	94500	PA70	<b>199 565 508</b>	1	32.1



d (mm)	FKM Code	SP	Weight (kg)
63	<b>199 565 520</b>	1	3.3
75	<b>199 565 521</b>	1	3.6
90	<b>199 565 522</b>	1	4.4
110	<b>199 565 523</b>	1	6.1
140	<b>199 565 524</b>	1	8.2
160	<b>199 565 525</b>	1	11.0
225	<b>199 565 526</b>	1	16.9
280	<b>199 565 527</b>	1	26.2
315	<b>199 565 528</b>	1	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:

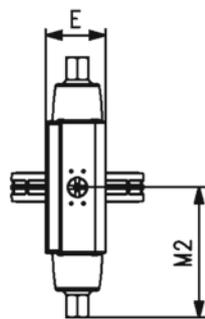
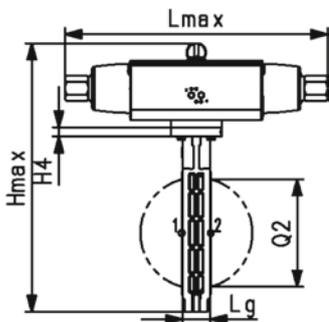
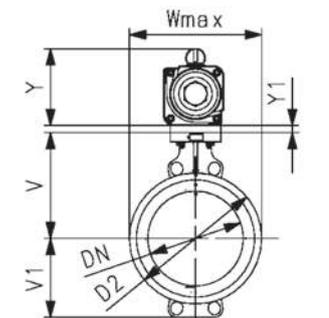
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 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](http://www.gfps.com)

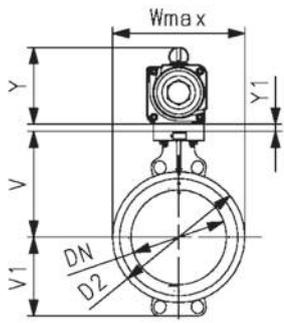


d	Size	DN	PN	kv-value	Actuator	EPDM	SP	Weight
(mm)	(inch)	(mm)	(bar)	( $\Delta p=1$ bar)		Code		(kg)
				(L/min)				
63	2	50	10	1445	PA30	<b>199 565 540</b>	1	3.2
75	2 ½	65	10	2530	PA30	<b>199 565 541</b>	1	3.5
90	3	80	10	4020	PA35	<b>199 565 542</b>	1	4.3
110	4	100	10	5850	PA40	<b>199 565 543</b>	1	5.9
140	5	125	10	11900	PA45	<b>199 565 544</b>	1	7.9
160	6	150	10	18050	PA50	<b>199 565 545</b>	1	10.7
225	8	200	10	43667	PA60	<b>199 565 546</b>	1	14.8
280	10	250	10	62333	PA65	<b>199 565 547</b>	1	28.4
315	12	300	6	94500	PA70	<b>199 565 548</b>	1	32.1

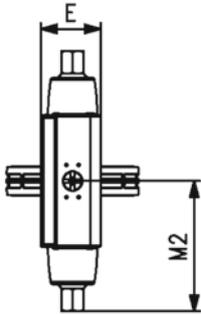
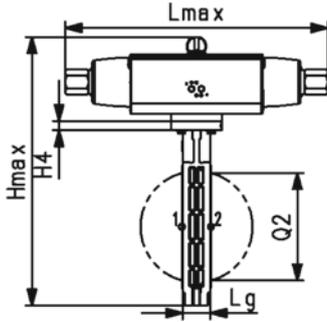
d	Size	FKM	SP	Weight
(mm)	(inch)	Code		(kg)
63	2	<b>199 565 560</b>	1	3.3
75	2 ½	<b>199 565 561</b>	1	3.6
90	3	<b>199 565 562</b>	1	4.4
110	4	<b>199 565 563</b>	1	6.1
140	5	<b>199 565 564</b>	1	8.2
160	6	<b>199 565 565</b>	1	11.0
225	8	<b>199 565 566</b>	1	15.3
280	10	<b>199 565 567</b>	1	29.1
315	12	<b>199 565 568</b>	1	33.3

d	Size	D2	Wmax	Hmax	Lmax	H4	V	V1	Lg	E	M2	Y	Y1
(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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	Size	Q2
(mm)	(inch)	(mm)
63	2	28.5
75	2 ½	44.0
90	3	63.5
110	4	84.0



d	Size	Q2
(mm)	(inch)	(mm)
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:**

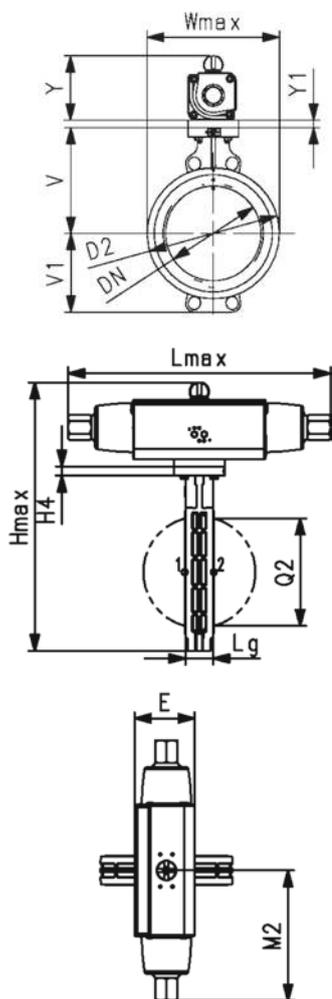
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PA35	<b>199 565 600</b>	1	2.6
75	2 ½	65	10	2530	PA35	<b>199 565 601</b>	1	2.9
90	3	80	10	4020	PA40	<b>199 565 602</b>	1	3.4
110	4	100	10	5850	PA45	<b>199 565 603</b>	1	4.5
140	5	125	10	11900	PA45	<b>199 565 604</b>	1	5.1
160	6	150	10	18050	PA55	<b>199 565 605</b>	1	7.7
225	8	200	10	43667	PA60	<b>199 565 606</b>	1	10.7
280	10	250	10	62333	PA65	<b>199 565 607</b>	1	16.9
315	12	300	6	94500	PA70	<b>199 565 608</b>	1	22.4

d (mm)	FKM Code	SP	Weight (kg)
63	<b>199 565 620</b>	1	2.7
75	<b>199 565 621</b>	1	3.0
90	<b>199 565 622</b>	1	3.5
110	<b>199 565 623</b>	1	4.7
140	<b>199 565 624</b>	1	5.4
160	<b>199 565 625</b>	1	8.0
225	<b>199 565 626</b>	1	11.2
280	<b>199 565 627</b>	1	17.6
315	<b>199 565 628</b>	1	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 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:**

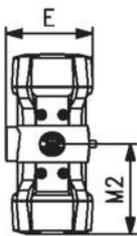
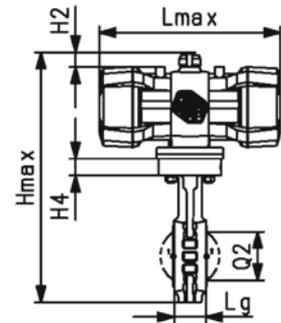
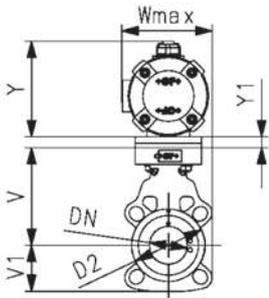
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (L/min)	Actuator	EPDM Code	SP	Weight (kg)
63	2	50	10	1445	PPA40	<b>199 565 650</b>	1	2.922
75	2 ½	65	10	2530	PPA80	<b>199 565 651</b>	1	4.905
90	3	80	10	4020	PPA80	<b>199 565 652</b>	1	5.075

d (mm)	FKM Code	SP	Weight (kg)
63	<b>199 565 660</b>	1	2.922
75	<b>199 565 661</b>	1	4.905
90	<b>199 565 662</b>	1	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 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:**

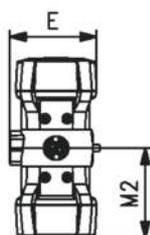
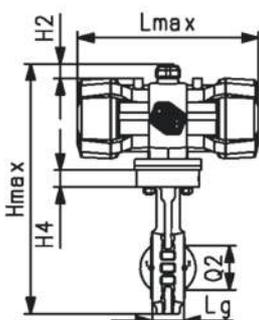
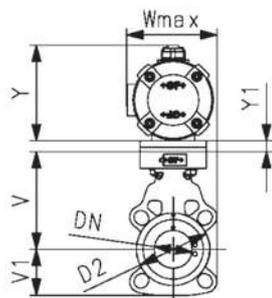
- Installation length: EN558 row 20, ISO 5752 row 20, API 609 table 2
- Flange standards: ISO 7005 PN10/16, EN 1092 PN10/16, DIN 2501 PN10/16, ANSI/ASME B 16.5 Class 150, BS 1560: 1989 Class 125/150; BS 4504 PN10/16, JIS B 2220 10K, JIS B 2239 10K
- For easy installation and removal
- Control time 0-90° 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](http://www.gfps.com)



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	Actuator	EPDM Code	SP Weight (kg)
63	2	50	10	1445	PPA40	<b>199 565 670</b>	1 2.922
75	2 ½	65	10	2530	PPA80	<b>199 565 671</b>	1 4.905
90	3	80	10	4020	PPA80	<b>199 565 672</b>	1 5.075

d (mm)	FKM Code	SP Weight (kg)
63	<b>199 565 680</b>	1 2.922
75	<b>199 565 681</b>	1 4.905
90	<b>199 565 682</b>	1 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 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

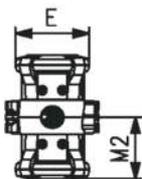
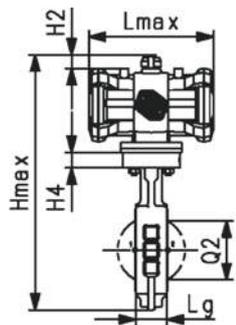
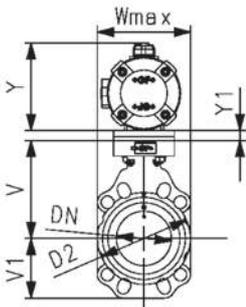
**Note:**

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](http://www.gfps.com)

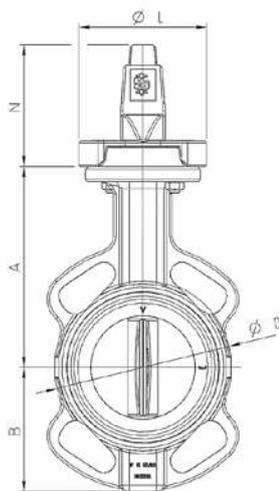
d	Size	DN	PN	kv-value	Actuator	EPDM	SP	Weight
(mm)	(inch)	(mm)	(bar)	( $\Delta p=1$ bar)		Code		(kg)
				(L/min)				
63	2	50	10	1445	PPA40	<b>199 565 630</b>	1	2.396
75	2 ½	65	10	2530	PPA40	<b>199 565 631</b>	1	2.664
90	3	80	10	4020	PPA40	<b>199 565 632</b>	1	2.854

d	FKM	SP	Weight
(mm)	Code		(kg)
63	<b>199 565 690</b>	1	2.396
75	<b>199 565 691</b>	1	2.664
90	<b>199 565 692</b>	1	2.854

d	D2	Wmax	Hmax	Lmax	H2	H4	V	V1	Lg	E	M2	Y	Y1	Q2
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(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



# Metal Butterfly Valves Type 039 and 038



## Wafer-Style, intermediate installation butterfly valve metal type 039

With hand lever

Flange standard Metric/Inch/ASTM - PN10

Disc: ductile iron/Rilsan® coated

### Model:

- Wafer Style
- Body GGG40 (A 395 / A395 M-99, EN-JIS 1020 EN1563) Rilsan® coating
- Installation length: EN 558 row 20
- Interface according to DIN EN ISO 5211
- Pressure range: 16 bar (DN 50-300)
- Axis DN50 - DN300: Single-piece axis with square profile, material stainless steel DIN Norm 1.4021
- Flange connection: DN50 - DN300: PN6, PN10, ANSI 125/150 Lbs., BS 10-D/E

### Option:

- Electric and pneumatic actuator on request
- Other liner material on request

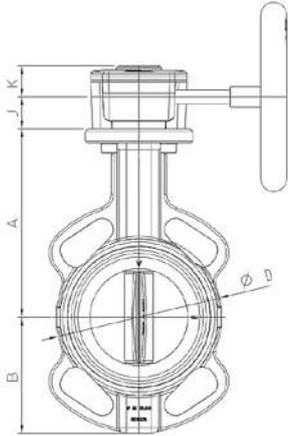
### Note:

Hand lever DN125, DN150 and DN200 with 10 grid positions

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	Liner: EPDM Code	SP	Weight (kg)
63	50	2	16	3167	199 039 000	1	4.00
75	65	2 ½	16	4667	199 039 001	1	4.70
90	80	3	16	7167	199 039 002	1	5.00
110	100	4	16	11833	199 039 003	1	6.40
140	125	5	16	18333	199 039 004	1	8.10
160	150	6	16	26667	199 039 005	1	9.70
225	200	8	16	46667	199 039 006	1	14.02

d (mm)	DN (mm)	Liner: FKM Code	Liner: EPDM DVGW Code	Liner: NBR Code
63	50	199 039 013	199 039 074	199 039 095
75	65	199 039 014	199 039 075	199 039 096
90	80	199 039 015	199 039 076	199 039 097
110	100	199 039 016	199 039 077	199 039 098
140	125	199 039 017	199 039 078	199 039 099
160	150	199 039 018	199 039 079	199 039 100
225	200	199 039 019	199 039 080	199 039 101

d (mm)	DN (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	Q (mm)	L2 (mm)
63	50	318	83	140	95	43	45	32	220
75	65	340	93	152	95	46	45	51	220
90	80	352	98	159	95	46	45	69	220
110	100	384	111	178	95	52	45	89	220
140	125	413	127	191	95	56	45	115	320
160	150	441	143	203	95	56	45	143	320
225	200	512	172	245	95	60	45	194	320



**Wafer-Style, intermediate installation butterfly valve metal type 039**  
**With gear box**  
**Flange standard Metric/Inch/ASTM - PN10**  
**Disc: ductile iron/Rilsan® coated**

**Model:**

- Wafer Style
- Body GGG40 (A 395 / A395 M-99, EN-JIS 1020 EN1563) Rilsan® coating
- Installation length: EN 558 row 20
- Interface according to DIN EN ISO 5211
- Pressure range: 16 bar (DN 50-300)
- Axis DN50 - DN300: Single-piece axis with square profile, material stainless steel DIN Norm 1.4021
- Flange connection: DN50 - DN300: PN6, PN10, ANSI 125/150 Lbs., BS 10-D/E

**Option:**

- Electric and pneumatic actuator on request
- Other liner material on request

d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (l/min)	Liner: EPDM Code	SP	Weight (kg)
63	50	2	16	3167	<b>199 039 026</b>	1	6.40
75	65	2 ½	16	4667	<b>199 039 027</b>	1	0.00
90	80	3	16	7167	<b>199 039 028</b>	1	3.80
110	100	4	16	11833	<b>199 039 029</b>	1	4.80
140	125	5	16	18333	<b>199 039 030</b>	1	5.60
160	150	6	16	26667	<b>199 039 031</b>	1	7.00
225	200	8	16	46667	<b>199 039 032</b>	1	9.50
280	250	10	16	78333	<b>199 039 033</b>	1	31.60
315	300	12	16	115000	<b>199 039 034</b>	1	40.00

d (mm)	Liner: FKM Code	Liner: EPDM DVGW Code	Liner: NBR Code
63	<b>199 039 039</b>	<b>199 039 461</b>	<b>199 039 180</b>
75	<b>199 039 040</b>	<b>199 039 462</b>	<b>199 039 181</b>
90	<b>199 039 041</b>	<b>199 039 463</b>	<b>199 039 182</b>
110	<b>199 039 042</b>	<b>199 039 464</b>	<b>199 039 183</b>
140	<b>199 039 043</b>	<b>199 039 465</b>	<b>199 039 184</b>
160	<b>199 039 044</b>	<b>199 039 466</b>	<b>199 039 185</b>
225	<b>199 039 045</b>	<b>199 039 467</b>	<b>199 039 186</b>
280	<b>199 039 046</b>	<b>199 039 468</b>	<b>199 039 187</b>
315	<b>199 039 047</b>	<b>199 039 469</b>	<b>199 039 188</b>

d (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	Q1 (mm)	L3 (mm)	L4 (mm)
63	102	165	125	278	83	140	55	84	152	32	38	107
75	122	185	125	300	93	152	55	84	152	51	38	107
90	139	190	125	312	98	159	55	84	152	69	38	107
110	159	229	125	344	111	178	55	84	152	89	38	107
140	189	254	125	373	127	191	55	84	152	115	38	107
160	214	285	125	409	143	203	63	84	152	143	38	107
225	269	343	125	480	172	245	63	84	152	194	38	107
280	331	333	250	542	204	275	63	106	184	243	52	142
315	380	353	250	620	242	315	63	106	184	293	52	142



## Lug-Style, end installation butterfly valve metal type 038

With hand lever

Flange standard metric - PN10

Disc: ductile iron/Rilsan® coated

### Model:

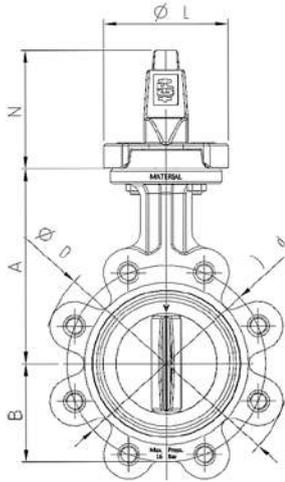
- Lug Style
- Body GGG40 (A 395 / A395 M-99, EN-JIS 1020 EN1563) Rilsan® coating
- Installation length: EN 558 row 20
- Interface according to DIN EN ISO 5211
- Pressure range: 16 bar (DN 50-300)
- Axis DN50 - DN300: Single-piece axis with square profile, material stainless steel DIN Norm 1.4021
- Flange connection: DN50 - DN300: PN6, PN10, ANSI 125/150 Lbs., BS 10-D/E

### Option:

- Electric and pneumatic actuator on request
- Other liner material on request

### Note:

Hand lever DN125, DN150 and DN200 with 10 grid positions



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	Liner: EPDM Code	SP	Weight (kg)
63	50	2	16	3140	<b>199 038 000</b>	1	3.90
75	65	2 ½	16	4570	<b>199 038 001</b>	1	5.00
90	80	3	16	7140	<b>199 038 002</b>	1	6.70
110	100	4	16	11710	<b>199 038 003</b>	1	8.70
140	125	5	16	18570	<b>199 038 004</b>	1	10.60
160	150	6	16	27130	<b>199 038 005</b>	1	12.30
225	200	8	16	47130	<b>199 038 006</b>	1	19.10
280	250	10	16	77110	<b>199 038 007</b>	1	33.90
315	300	12	16	114240	<b>199 038 008</b>	1	50.70

d (mm)	Liner: FKM Code	Liner: EPDM DVGW Code	Liner: NBR Code	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)
63	<b>199 038 013</b>	<b>199 038 181</b>	<b>199 038 160</b>	298	63	140	95	43	45	220
75	<b>199 038 014</b>	<b>199 038 182</b>	<b>199 038 161</b>	320	73	152	95	46	45	220
90	<b>199 038 015</b>	<b>199 038 183</b>	<b>199 038 162</b>	335	81	159	95	46	45	220
110	<b>199 038 016</b>	<b>199 038 184</b>	<b>199 038 163</b>	370	97	178	95	52	45	220
140	<b>199 038 017</b>	<b>199 038 185</b>	<b>199 038 164</b>	398	112	181	95	56	45	320
160	<b>199 038 018</b>	<b>199 038 186</b>	<b>199 038 165</b>	420	122	203	95	56	45	320
225	<b>199 038 019</b>	<b>199 038 187</b>	<b>199 038 166</b>	489	149	245	95	60	45	320
280	<b>199 038 020</b>	<b>199 038 188</b>	<b>199 038 167</b>	573	203	275	48	68	63	560
315	<b>199 038 021</b>	<b>199 038 189</b>	<b>199 038 168</b>	651	241	315	48	78	63	560



### Lug-Style, end installation butterfly valve metal type 038

With gear box

Flange standard metric - PN10

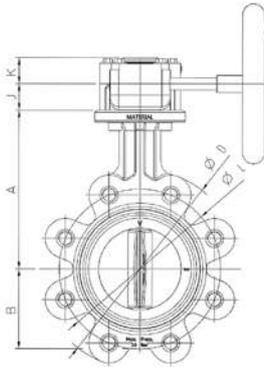
Disc: ductile iron/Rilsan® coated

#### Model:

- Lug Style
- Body GGG40 (A 395 / A395 M-99, EN-JIS 1020 EN1563) Rilsan® coating
- Body from DN350 Epoxy® coating
- Installation length: EN 558 row 20
- Interface according to DIN EN ISO 5211
- Pressure range: 16 bar (DN 50-300); 10 bar (DN 350-600)
- Axis DN50 - DN300: Single-piece axis with square profile, material stainless steel DIN Norm 1.4021
- Axis DN350 - DN600: 2-pieces axis keyway profile, material: stainless steel DIN Norm 1.4021
- Flange connection: DN50 - DN300: PN6, PN10, ANSI 125/150 Lbs., BS 10-D/E
- Flange connection: PN10

#### Option:

- Electric and pneumatic actuator on request
- Other liner material on request



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	Liner: EPDM Code	SP	Weight (kg)	Liner: FKM Code	Weight (kg)
63	50	2	16	3140	199 038 026	1	6.30	199 038 039	5.300
75	65	2 ½	16	4570	199 038 027	1	7.40	199 038 040	6.400
90	80	3	16	7140	199 038 028	1	9.10	199 038 041	6.900
110	100	4	16	11710	199 038 029	1	11.10	199 038 042	10.400
140	125	5	16	18570	199 038 030	1	12.90	199 038 043	12.900
160	150	6	16	27130	199 038 031	1	14.60	199 038 044	14.100
225	200	8	16	47130	199 038 032	1	21.40	199 038 045	21.400
280	250	10	16	77110	199 038 033	1	34.60	199 038 046	34.600
315	300	12	16	114240	199 038 034	1	51.40	199 038 047	51.000
355	350	14	10	143360	199 038 035	1	70.00		68.100
400	400	16	10	186700	199 038 036	1	110.00		109.100
450	450	18	10	258390	199 038 037	1	139.30		140.100
500	500	20	10	316730	199 038 038	1	183.50		184.300
630	600	24	10	431750	199 038 048	1	346.00		327.000

d (mm)	DN (mm)	Liner: EPDM DVGW Code	Weight (kg)	Liner: NBR Code	Weight (kg)
63	50	199 038 380	6.400	199 038 541	6.300
75	65	199 038 381	0.001	199 038 542	7.400
90	80	199 038 382	6.000	199 038 543	9.100
110	100	199 038 383	8.000	199 038 544	11.100
140	125	199 038 384	9.800	199 038 545	12.900
160	150	199 038 385	11.500	199 038 546	14.600
225	200	199 038 386	18.300	199 038 547	21.400
280	250	199 038 387	31.500	199 038 548	34.600
315	300	199 038 388	51.400	199 038 549	51.400
355	350		68.100		68.100
400	400		109.100		109.100
450	450		140.100		140.100
500	500		184.300		184.300
630	600		327.000		327.000

d (mm)	DN (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)
63	50	125	261	63	140	58	43	84	152	38	107
75	65	125	283	73	152	58	46	84	152	38	107
90	80	125	298	81	159	58	46	84	152	38	107
110	100	125	333	97	178	58	52	84	152	38	107
140	125	125	361	112	191	58	56	84	152	38	107
160	150	125	383	122	203	58	56	84	152	38	107
225	200	125	452	149	245	58	60	84	152	38	107

d	DN	D5	H	H1	H2	H3	L	L1	L2	L3	L4
(mm)											
280	250	250	545	203	275	67	68	106	152	52	141
315	300	250	623	241	315	67	78	106	152	52	141
355	350										
400	400										
450	450										
500	500										
630	600										

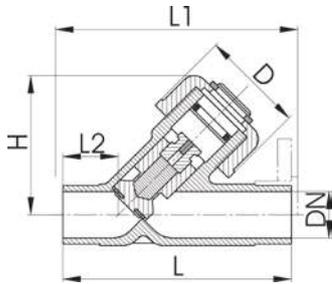
## Angle Seat Check Valves



**ABS Angle seat check valve type 303**  
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<sup>3</sup>
- Overall length EN 558



d	DN	PN	kv-value	EPDM	SP	Weight	D	H	L	L1	L2	closest
(mm)	(mm)	(bar)	( $\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)									(inch)
20	15	10	95	<b>169 303 006</b>	1	0.092	43	65	124	130	28	½
25	20	10	180	<b>169 303 007</b>	1	0.133	47	75	144	150	37	¾
32	25	10	327	<b>169 303 008</b>	1	0.219	56	90	154	160	37	1
40	32	10	484	<b>169 303 009</b>	1	0.348	64	102	174	180	44	1 ¼
50	40	10	725	<b>169 303 010</b>	1	0.615	82	123	194	200	48	1 ½
63	50	10	1130	<b>169 303 011</b>	1	1.059	95	144	224	230	60	2

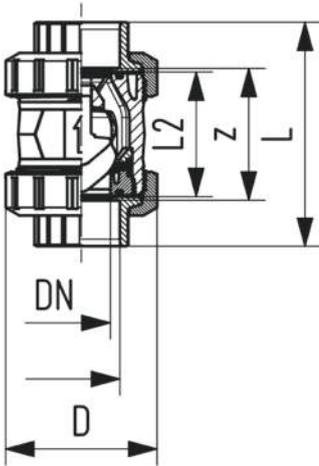
# Cone Check (non-return) Valves



**Check valve type 561 ABS**  
**Without spring**  
**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



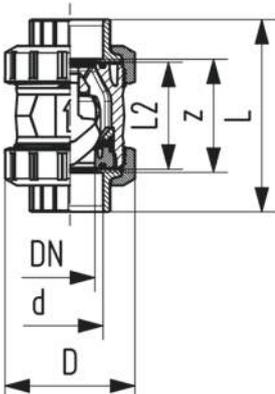
d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
16	10	3/8	10	190	169 561 061	1 0.090	50	92	56	60
20	15	1/2	10	180	169 561 062	1 0.090	50	95	56	60
25	20	3/4	10	380	169 561 063	1 0.190	58	110	65	69
32	25	1	10	460	169 561 064	1 0.210	68	123	71	75
40	32	1 1/4	10	850	169 561 065	1 0.370	84	146	85	89
50	40	1 1/2	10	1080	169 561 066	1 0.570	97	157	89	97
63	50	2	10	1670	169 561 067	1 1.000	124	183	101	110
75	65	2 1/2	10	2950	169 561 068	1 2.420	166	233	136	144
90	80	3	10	3600	169 561 069	1 3.890	200	254	141	151
110	100	4	10	4150	169 561 070	1 6.140	238	301	164	174



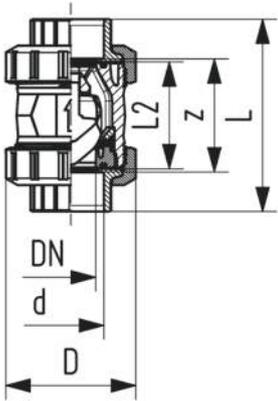
**ABS Check valve type 561**  
**Without spring**  
**With solvent cement sockets metric**

**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
- New DN65-DN100



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP Weight (kg)
16	10	3/8	10	190	169 561 001	1 0.090
20	15	1/2	10	180	169 561 002	1 0.090
25	20	3/4	10	380	169 561 003	1 0.190
32	25	1	10	460	169 561 004	1 0.220
40	32	1 1/4	10	850	169 561 005	1 0.380
50	40	1 1/2	10	1080	169 561 006	1 0.560
63	50	2	10	1670	169 561 007	1 0.990
75	65	2 1/2	10	2950	169 561 008	1 2.420
90	80	3	10	3600	169 561 009	1 3.870
110	100	4	10	4150	169 561 010	1 6.240



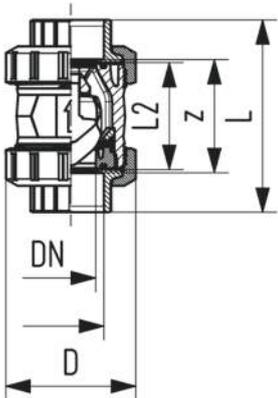
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	92	56	64	3/8
20	50	95	56	64	1/2
25	58	110	65	72	3/4
32	68	123	71	79	1
40	84	146	85	94	1 1/4
50	97	157	89	95	1 1/2
63	124	183	101	107	2
75	166	233	136	144	2 1/2
90	200	254	141	151	3
110	238	301	164	174	4



**ABS Check valve type 561**  
**Without spring**  
**With threaded sockets Rp**

**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)	Thread Type	Size (inch)	PN (bar)	kv-value (Δp=1 bar) (L/min)	EPDM Code	SP	Weight (kg)
16	10	Rp	3/8	10	190	<b>169 561 021</b>	1	0.090
20	15	Rp	1/2	10	180	<b>169 561 022</b>	1	0.100
25	20	Rp	3/4	10	380	<b>169 561 023</b>	1	0.200
32	25	Rp	1	10	460	<b>169 561 024</b>	1	0.220
40	32	Rp	1 1/4	10	850	<b>169 561 025</b>	1	0.380
50	40	Rp	1 1/2	10	1080	<b>169 561 026</b>	1	0.580
63	50	Rp	2	10	1670	<b>169 561 027</b>	1	1.040

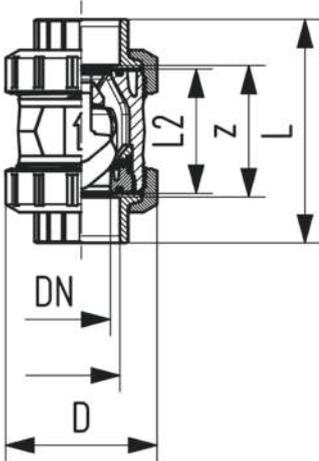
D (mm)	L (mm)	L2 (mm)	z (mm)
50	95	56	69
50	100	56	67
58	114	65	78
68	127	71	85
84	146	85	100
97	152	89	106
124	177	101	121



**Check valve type 562 ABS**  
**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



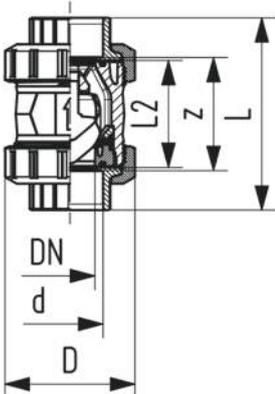
Size (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	EPDM Code	SP	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
3/8	10	10	190	169 562 061	1	0.090	50	92	56	60
1/2	15	10	180	169 562 062	1	0.090	50	95	56	60
3/4	20	10	380	169 562 063	1	0.190	58	110	65	69
1	25	10	460	169 562 064	1	0.210	68	123	71	75
1 1/4	32	10	850	169 562 065	1	0.370	84	146	85	89
1 1/2	40	10	1080	169 562 066	1	0.570	97	157	89	97
2	50	10	1670	169 562 067	1	1.000	124	183	101	110
2 1/2	65	10	2950	169 562 068	1	2.420	166	233	136	144
3	80	10	3600	169 562 069	1	3.890	200	254	141	151
4	100	10	4150	169 562 070	1	6.140	238	301	164	174

**ABS Check valve type 562**  
**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
- New DN65-DN100



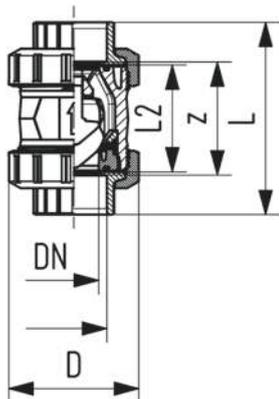
d (mm)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (L/min)	EPDM Code	SP	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	10	10	190	169 562 001	1	0.090	50	92	56	64	3/8
20	15	10	180	169 562 002	1	0.090	50	95	56	64	1/2
25	20	10	380	169 562 003	1	0.190	58	110	65	72	3/4
32	25	10	460	169 562 004	1	0.220	68	123	71	79	1
40	32	10	850	169 562 005	1	0.380	84	146	85	94	1 1/4
50	40	10	1080	169 562 006	1	0.560	97	157	89	95	1 1/2
63	50	10	1670	169 562 007	1	0.990	124	183	101	107	2
75	65	10	2950	169 562 008	1	2.420	166	233	136	144	2 1/2
90	80	10	3600	169 562 009	1	3.870	200	254	141	151	3
110	100	10	4150	169 562 010	1	6.240	238	301	164	174	4



### ABS Check valve type 562 With threaded sockets Rp

#### 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



Rp (inch)	DN (mm)	PN (bar)	kv-value ( $\Delta p=1$ bar) (l/min)	EPDM Code	SP	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
3/8	10	10	190	169 562 021	1	0.090	50	95	56	69
1/2	15	10	180	169 562 022	1	0.100	50	100	56	67
3/4	20	10	380	169 562 023	1	0.200	58	114	65	78
1	25	10	460	169 562 024	1	0.220	68	127	71	85
1 1/4	32	10	850	169 562 025	1	0.380	84	146	85	100
1 1/2	40	10	1080	169 562 026	1	0.580	97	152	89	106
2	50	10	1670	169 562 027	1	1.040	124	177	101	121

## Process Control Valves

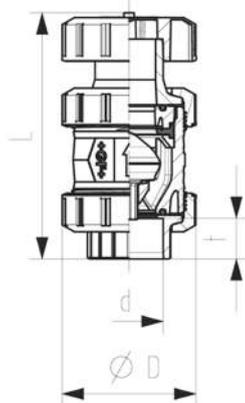
### Ventilating and Bleed Valve Type 591



### Ventilating and bleed valve Type 591 ABS 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)	Size (inch)	DN (mm)	PN (bar)	EPDM Code	D (mm)	L (mm)	t (mm)	t closest inch (inch)
	3/8	10	10	169 591 101	50	126	16	
	1/2	15	10	169 591 102	50	127	18	
	3/4	20	10	169 591 103	58	142	21	
	1	25	10	169 591 104	68	155	24	
	1 1/4	32	10	169 591 105	84	177	29	
	1 1/2	40	10	169 591 106	97	195	30	
	2	50	10	169 591 107	124	227	36	
75		65	10	169 591 008	166	256	45	2 1/2
	3	80	10	169 591 109	200	275	51	
	4	100	10	169 591 110	238	318	64	

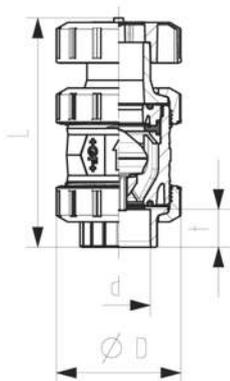
**Ventilating and bleed valve Type 591 ABS**  
**With solvent cement sockets metric**



**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	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	10	169 591 001	50	126	14	3/8
20	15	10	169 591 002	50	127	16	1/2
25	20	10	169 591 003	58	142	18	3/4
32	25	10	169 591 004	68	155	22	1
40	32	10	169 591 005	84	177	26	1 1/4
50	40	10	169 591 006	97	195	31	1 1/2
63	50	10	169 591 007	124	227	38	2
75	65	10	169 591 008	166	256	45	2 1/2
90	80	10	169 591 009	200	275	52	3
110	100	10	169 591 010	238	318	64	4



**Ventilating Valve Type 595**

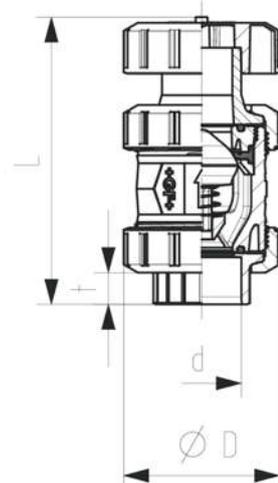
**Ventilating valve type 595 ABS**  
**With solvent cement sockets Inch BS**



**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	D (mm)	L (mm)	t (mm)	closest inch (inch)
10	3/8	10	169 595 101	50	126	16		
15	1/2	10	169 595 102	50	127	18		
20	3/4	10	169 595 103	58	142	21		
25	1	10	169 595 104	68	155	24		
32	1 1/4	10	169 595 105	84	177	29		
40	1 1/2	10	169 595 106	97	195	30		
50	2	10	169 595 107	124	227	36		
75	65	2 1/2	10	169 595 008	166	256	45	2 1/2
80	3	10	169 595 109	200	275	51		
100	4	10	169 595 110	238	318	64		

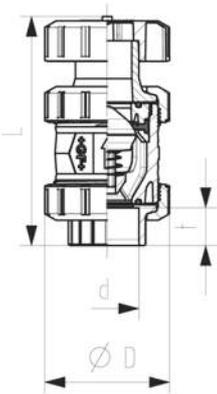




### Ventilating valve type 595 ABS With solvent cement sockets metric

**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	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	10	169 595 001	50	126	14	3/8
20	15	10	169 595 002	50	127	16	1/2
25	20	10	169 595 003	58	142	18	3/4
32	25	10	169 595 004	68	155	22	1
40	32	10	169 595 005	84	177	26	1 1/4
50	40	10	169 595 006	97	195	31	1 1/2
63	50	10	169 595 007	124	227	38	2
75	65	10	169 595 008	166	256	45	2 1/2
90	80	10	169 595 009	200	275	52	3
110	100	10	169 595 010	238	318	64	4

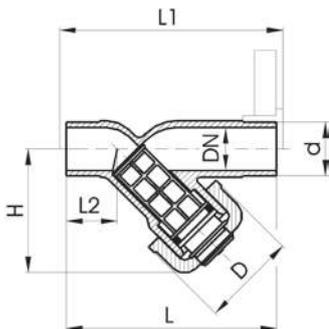
## Strainers



### ABS Line strainer type 305 With solvent cement spigots metric

**Model:**

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- Overall length EN 558
- Cylindrical screen must be ordered separately
- Screen in stainless steel operable temperature range up -40°C to +60°C
- Screen in PVC-U operable temperature range up 0°C to +60°C



d (mm)	DN (mm)	PN (bar)	EPDM Code	SP Weight (kg)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)	
20	15	10	169 305 302	1	0.081	48	65	124	130	28	1/2
25	20	10	169 305 303	1	0.120	54	76	144	150	37	3/4
32	25	10	169 305 304	1	0.180	62	90	154	160	37	1
40	32	10	169 305 305	1	0.284	71	104	174	180	44	1 1/4
50	40	10	169 305 306	1	0.484	88	124	194	200	48	1 1/2
63	50	10	169 305 307	1	0.780	103	148	224	230	60	2



### 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	SP Weight (kg)	D (mm)	L (mm)	
20	15	1/2	35	161 305 339	10	0.005	14	39
25	20	3/4	65	161 305 389	10	0.007	18	48
32	25	1	90	161 305 439	5	0.003	24	60

d (mm)	DN (mm)	Size (inch)	kv-value ( $\Delta p=1$ bar) (L/min)	Code	SP	Weight (kg)	D (mm)	L (mm)
40	32	1 ¼	155	<b>161 305 489</b>	2	0.004	30	71
50	40	1 ½	225	<b>161 305 539</b>	1	0.007	38	87
63	50	2	370	<b>161 305 589</b>	2	0.009	48	106
75	65	2 ½	575	<b>161 305 639</b>	5	0.012	61	100
90	80	3	955	<b>161 305 689</b>	2	0.016	73	118



### Cylindrical screen type 305 PVC-U Screen perforations 0.8 mm

- For line strainers Type 305

d (mm)	DN (mm)	Size (inch)	kv-value ( $\Delta p=1$ bar) (L/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	½	35	<b>161 305 338</b>	10	0.005	14	39	½
25	20	¾	65	<b>161 305 388</b>	10	0.025	18	48	¾
32	25	1	90	<b>161 305 438</b>	5	0.003	24	60	1
40	32	1 ¼	155	<b>161 305 488</b>	1	0.004	30	71	1 ¼
50	40	1 ½	225	<b>161 305 538</b>	1	0.030	38	87	1 ½
63	50	2	370	<b>161 305 588</b>	2	0.003	48	106	2
75	65	2 ½	575	<b>161 305 638</b>	5	0.011	61	100	2 ½
90	80	3	955	<b>161 305 688</b>	2	0.015	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 ( $\Delta p=1$ bar) (L/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	½	35	<b>161 305 337</b>	10	0.003	14	39	½
25	20	¾	65	<b>161 305 387</b>	10	0.003	18	48	¾
32	25	1	90	<b>161 305 437</b>	5	0.003	24	60	1
40	32	1 ¼	155	<b>161 305 487</b>	2	0.004	30	71	1 ¼
50	40	1 ½	225	<b>161 305 537</b>	1	0.005	38	87	1 ½
63	50	2	370	<b>161 305 587</b>	2	0.008	48	106	2
75	65	2 ½	575	<b>161 305 637</b>	5	0.011	61	100	2 ½
90	80	3	955	<b>161 305 687</b>	2	0.013	73	118	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 ( $\Delta p=1$ bar) (L/min)	Code	SP	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	½	35	<b>161 305 336</b>	10	0.005	14	39	½
25	20	¾	65	<b>161 305 386</b>	10	0.003	18	48	¾
32	25	1	90	<b>161 305 436</b>	5	0.003	24	60	1
40	32	1 ¼	155	<b>161 305 486</b>	2	0.003	30	71	1 ¼
50	40	1 ½	225	<b>161 305 536</b>	1	0.005	38	87	1 ½
63	50	2	370	<b>161 305 586</b>	2	0.008	48	106	2
75	65	2 ½	575	<b>161 305 636</b>	5	0.010	61	100	2 ½
90	80	3	955	<b>161 305 686</b>	2	0.013	73	118	3



**Screen stainless steel**  
**Screen perforation 0.5 mm**

**Model:**

- Stainless Steel A4 Quality (AISI 316)
- For line strainers Type 305

d (mm)	DN (mm)	kv-value ( $\Delta p=1$ bar) (l/min)	Code	D (mm)	L (mm)	closest inch (inch)
20	15	35	<b>161 486 100</b>	14	39	½
25	20	60	<b>161 486 101</b>	18	48	¾
32	25	85	<b>161 486 102</b>	24	60	1
40	32	130	<b>161 486 103</b>	30	71	1 ¼
50	40	200	<b>161 486 104</b>	38	87	1 ½
63	50	330	<b>161 486 105</b>	48	106	2
75	65	460	<b>161 486 106</b>	61	100	2 ½
90	80	665	<b>161 486 107</b>	73	118	3

## Variable Area Flow Meters

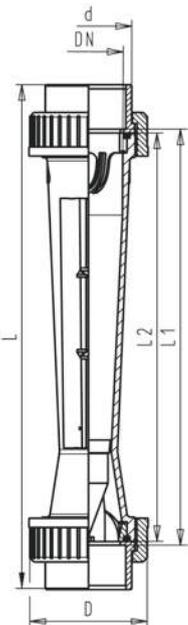


**Variable area flow meters**  
**Float in PVDF without magnet**  
**With solvent cement sockets ABS metric**

**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 (mm)	DN (mm)	Taper tube in Polyamid O-rings in EPDM Code	Weight (kg)	Taper tube in Polysulfone O-rings in EPDM Code	D (mm)	L (mm)	L1 (mm)	L2 (mm)
50 - 500	32	25	<b>199 335 170</b>	0.544	<b>199 335 176</b>	58	385	341	335
100 - 1000	32	25	<b>199 335 171</b>	0.544	<b>199 335 177</b>	58	385	341	335
300 - 3000	50	40	<b>199 335 172</b>	0.544	<b>199 335 178</b>	83	403	341	335
600 - 6000	50	40	<b>199 335 173</b>	0.900	<b>199 335 179</b>	83	403	341	335
1000 - 10000	63	50	<b>199 335 174</b>	1.370	<b>199 335 180</b>	101	417	341	335
1500 - 15000	63	50	<b>199 335 175</b>	1.370	<b>199 335 181</b>	101	417	341	335



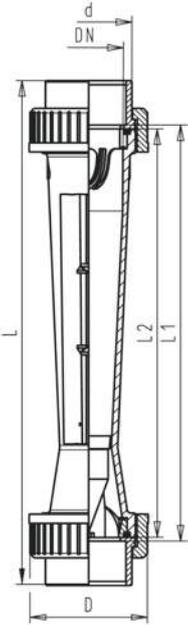


**Variable area flow meters**  
**Float in PVDF with magnet**  
**With solvent cement sockets ABS metric**

**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 (mm)	DN (mm)	Taper tube in Polyamid O-rings in EPDM Code	Weight (kg)	Taper tube in Polysulfone O-rings in EPDM Code	D (mm)	L (mm)	L1 (mm)	L2 (mm)
50 - 500	32	25	<b>199 335 182</b>	0.460	<b>199 335 188</b>	58	385	341	335
100 - 1000	32	25	<b>199 335 183</b>	0.460	<b>199 335 189</b>	58	385	341	335
300 - 3000	50	40	<b>199 335 184</b>	0.544	<b>199 335 190</b>	83	403	341	335
600 - 6000	50	40	<b>199 335 185</b>	0.900	<b>199 335 191</b>	83	403	341	335
1000 - 10000	63	50	<b>199 335 186</b>	1.370	<b>199 335 192</b>	101	417	341	335
1500 - 15000	63	50	<b>199 335 187</b>	1.758	<b>199 335 193</b>	101	417	341	335



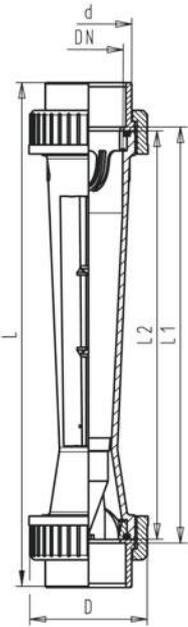


**Variable area flow meters**  
**Float in PVDF without magnet**  
**With solvent cement sockets ABS BS Inch**

**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 Polyamid O-rings in EPDM Code	Weight (kg)	Taper tube in Polysulfone O-rings in EPDM Code	L1 (mm)	D (mm)	L (mm)	L2 (mm)
50 - 500	1	25	<b>199 335 300</b>	0.450	<b>199 335 301</b>	341	58	385	335
100 - 1000	1	25	<b>199 335 302</b>	0.450	<b>199 335 303</b>	341	58	385	335
300 - 3000	1 ½	40	<b>199 335 304</b>	0.900	<b>199 335 305</b>	341	83	403	335
600 - 6000	1 ½	40	<b>199 335 306</b>	0.900	<b>199 335 307</b>	341	83	403	335
1000 - 10000	2	50	<b>199 335 308</b>	1.370	<b>199 335 309</b>	341	101	417	335
1500 - 15000	2	50	<b>199 335 310</b>	1.370	<b>199 335 311</b>	341	101	417	335



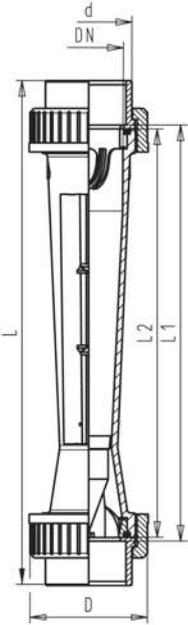


**Variable area flow meters**  
**Float in PVDF with magnet**  
**With solvent cement sockets ABS BS Inch**

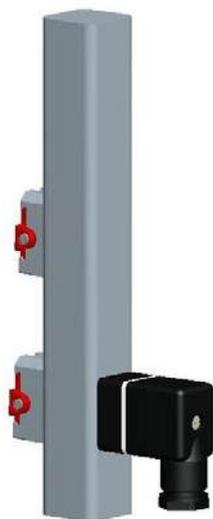
**Model:**

- Standard guiding rod PVDF with stainless steel core (V4A) for DN50 and DN65 see accessories for variable area flow meters

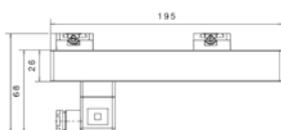
Scale range (l/h)	d (inch)	DN (mm)	Taper tube in Polyamid O-rings in EPDM Code	Taper tube in Polysulfone O-rings in EPDM Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	L2 (mm)
50 - 500	1	25	<b>199 335 312</b>	<b>199 335 313</b>	0.480	58	385	341	335
100 - 1000	1	25	<b>199 335 314</b>	<b>199 335 315</b>	0.480	58	385	341	335
300 - 3000	1 ½	40	<b>199 335 316</b>	<b>199 335 317</b>	0.950	83	403	341	335
600 - 6000	1 ½	40	<b>199 335 318</b>	<b>199 335 319</b>	0.950	83	403	341	335
1000 - 10000	2	50	<b>199 335 320</b>	<b>199 335 321</b>	1.500	101	417	341	335
1500 - 15000	2	50	<b>199 335 322</b>	<b>199 335 323</b>	1.500	101	417	341	335



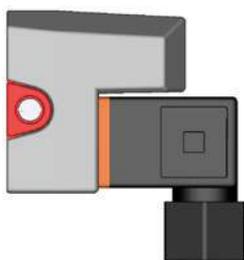
**Accessories**  
**4-20 mA sensor**  
**For type 335 and type 350**



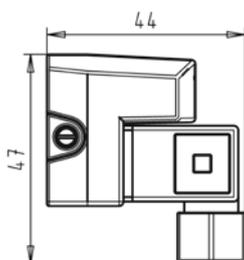
Type	d (mm)	DN (mm)	Corresponds to water scale (l/h)	Code	Weight (kg)
GK 15	32	25	50-500	<b>198 335 962</b>	0.150
GK 15	32	25	100-1000	<b>198 335 963</b>	0.150
GK 15	40	32	150-1500	<b>198 335 964</b>	0.150
GK 15	40	32	250-2500	<b>198 335 965</b>	0.150
GK 15	50	40	200-2000	<b>198 335 966</b>	0.150
GK 15	50	40	300-3000	<b>198 335 967</b>	0.150
GK 15	50	40	600-6000	<b>198 335 968</b>	0.150
GK 15	63	50	600-6000	<b>198 335 969</b>	0.150
GK 15	63	50	1000-10000	<b>198 335 991</b>	0.150
GK 15	63	50	1500-15000	<b>198 335 992</b>	0.120
GK 15	75	65	2000-20000	<b>198 335 993</b>	0.150
GK 15	75	65	3000-30000	<b>198 335 994</b>	0.150
GK 15	75	65	8000-60000	<b>198 335 995</b>	0.150



**Accessories for variable area flow meter**  
**Limit contacts GK10/GK11**  
**For type 335/350 and short version**

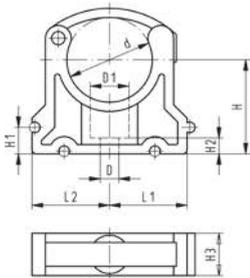


Type	Code	Weight (kg)
GK10 (min.)	<b>198 335 998</b>	0.035
GK11 (max.)	<b>198 335 999</b>	0.034



# ABS Accessories

## Brackets



### KLIP-IT pipe clip type 061 PP BS/ASTM

#### Model:

- For BS/ASTM pipes
- Material: clip and safety clip PP black, UV resistant
- 3/8" - 2": height designed for Ball Valve Type 546 and 543
- **Minimum order quantity: standard packaging SP**

	d (inch)	Code	SP	Weight (kg)
*	3/8	<b>167 061 085</b>	10	0.006
*	1/2	<b>167 061 086</b>	10	0.009
*	3/4	<b>167 061 087</b>	10	0.007
*	1	<b>167 061 088</b>	10	0.012
	1 1/4	<b>167 061 089</b>	10	0.025
	1 1/2	<b>167 061 090</b>	10	0.032
	2	<b>167 061 091</b>	10	0.052
	2 1/2	<b>167 061 112</b>	10	0.062
	3	<b>167 061 013</b>	10	0.092
	4	<b>167 061 114</b>	10	0.114
	5	<b>167 061 016</b>	10	0.224

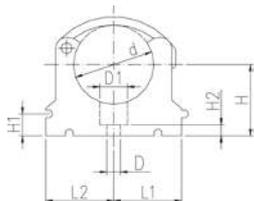
	d (inch)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
*	3/8	6	10	27	10	6	16	14	17	M5	
*	1/2	6	10	27	10	6	16	17	19	M5	
*	3/4	6	10	30	10	6	16	19	22	M5	
*	1	6	10	36	10	6	16	24	27	M5	
	1 1/4	7	14	44	10	7	22	34	34	M6	
	1 1/2	7	14	51	10	7	22	37	37	M6	
	2	9	17	64	10	10	25	45	45	M8	
	2 1/2	9	17	58	10	10	25	52	52	M8	
	3	9	17	65	10	10	28	65	65	M8	3
	4	9	17	81	10	10	28	79	79	M8	
	5	9	17	110	10	10	32	98	98	M8	5

## 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	SP	Weight (kg)
*	10	<b>167 061 003</b>	10	0.003
*	12	<b>167 061 004</b>	10	0.003
*	16	<b>167 061 035</b>	10	0.007
*	20	<b>167 061 036</b>	10	0.007
*	25	<b>167 061 037</b>	10	0.009
*	32	<b>167 061 038</b>	10	0.012
	40	<b>167 061 039</b>	10	0.027
	50	<b>167 061 040</b>	10	0.031
	63	<b>167 061 041</b>	10	0.052
	75	<b>167 061 012</b>	10	0.057
	90	<b>167 061 013</b>	10	0.092
	110	<b>167 061 014</b>	10	0.117
	125	<b>167 061 015</b>	10	0.180
	140	<b>167 061 016</b>	10	0.224
	160	<b>167 061 017</b>	10	0.242

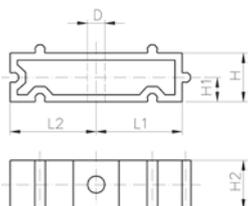
	d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L1 (mm)	L2 (mm)	SC	closest inch (inch)
*	10	5	8	20	10	6	12	11	14	M4	1/8
*	12	5	8	21	10	6	12	11	14	M5	1/8
*	16	6	11	27	10	6	16	14	17	M5	3/8
*	20	6	11	27	10	6	16	17	19	M5	1/2
*	25	6	11	30	10	6	16	19	22	M5	3/4
*	32	6	11	36	10	6	16	24	27	M5	1
	40	7	14	44	10	7	22	34	34	M6	1 1/4
	50	7	14	51	10	7	22	37	37	M6	1 1/2
	63	9	17	64	10	10	25	45	45	M8	2
	75	9	17	58	10	10	25	52	52	M8	2 1/2
	90	9	17	65	10	10	28	65	65	M8	3
	110	9	17	75	10	10	28	79	79	M8	4
	125	9	17	90	10	10	32	88	88	M8	
	140	9	17	110	10	10	32	98	98	M8	5
	160	9	17	108	10	10	32	109	109	M8	6



## KLIP-IT spacer type 061 PP

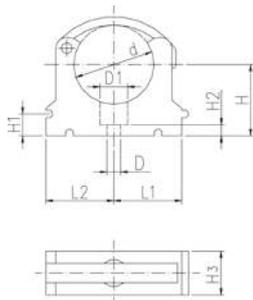
### Model:

- For pipe clips type 061, PP black, UV resistant
- **Minimum order quantity: standard packaging SP**



	d (mm)	D (mm)	Inch (inch)	Code	Weight (kg)	H (mm)	H1 (mm)	H2 (mm)	L1 (mm)	L2 (mm)	SC
	10 - 12	5	1/8 - 1/4	<b>167 061 153</b>	0.003	20	10	12	11	14	M4
	16	6	3/8	<b>167 061 155</b>	0.005	20	10	16	14	17	M5
	20	6	1/2	<b>167 061 156</b>	0.005	20	10	16	17	19	M5
	25	6	3/4	<b>167 061 157</b>	0.007	20	10	16	19	22	M5
	32	6	1	<b>167 061 158</b>	0.006	20	10	16	24	27	M5
	40	7	1 1/4	<b>167 061 159</b>	0.015	20	10	22	34	34	M6
	50	7	1 1/2	<b>167 061 160</b>	0.017	20	10	22	37	37	M6
	63	9	2	<b>167 061 161</b>	0.020	20	10	25	45	45	M8
	75	9	2 1/2	<b>167 061 162</b>	0.027	20	10	25	52	52	M8

## KLIP-IT pipe clip type 061 PE metric

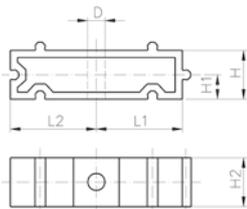


### Model:

- 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	SP	Weight (kg)	D (mm)	D1 (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	SC
*	10	<b>173 061 003</b>	10	0.003	5	8	11	14	20	10	6	12	M4
*	12	<b>173 061 004</b>	10	0.006	5	8	11	14	21	10	6	12	M5
*	16	<b>173 061 005</b>	10	0.006	6	11	14	17	23	10	6	16	M5
*	20	<b>173 061 006</b>	10	0.007	6	11	17	19	25	10	6	16	M5
*	25	<b>173 061 007</b>	10	0.009	6	11	19	22	28	10	6	16	M5
*	32	<b>173 061 008</b>	10	0.011	6	11	24	27	31	10	6	16	M5
	40	<b>173 061 009</b>	10	0.026	7	14	34	34	44	10	7	22	M6
	50	<b>173 061 010</b>	10	0.028	7	14	37	37	40	10	7	22	M6
	63	<b>173 061 011</b>	10	0.047	9	17	45	45	52	10	10	25	M8
	75	<b>173 061 012</b>	10	0.061	9	17	52	52	58	10	10	25	M8
	90	<b>173 061 013</b>	10	0.098	9	17	65	65	64	10	10	28	M8
	110	<b>173 061 014</b>	10	0.125	9	17	79	79	75	10	10	28	M8
	125	<b>173 061 015</b>	10	0.194	9	17	88	88	90	10	10	32	M8
	140	<b>173 061 016</b>	10	0.243	9	17	98	98	110	10	10	32	M8
	160	<b>173 061 017</b>	10	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

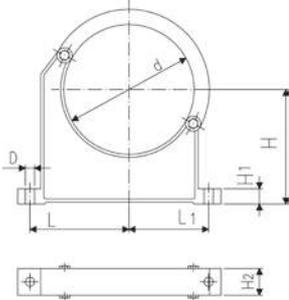
d (mm)	Inch (inch)	Code	SP	Weight (kg)	D (mm)	L1 (mm)	L2 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC
16	3/8	<b>173 061 155</b>	10	0.005	6	14	17	20	10	16	M5
20	1/2	<b>173 061 156</b>	10	0.005	6	17	19	20	10	16	M5
25	3/4	<b>173 061 157</b>	10	0.006	6	19	22	20	10	16	M5
32	1	<b>173 061 158</b>	10	0.008	6	24	27	20	10	16	M5
40	1 1/4	<b>173 061 159</b>	10	0.016	7	34	34	20	10	22	M6
50	1 1/2	<b>173 061 160</b>	10	0.017	7	37	37	20	10	22	M6
63	2	<b>173 061 161</b>	10	0.025	9	45	45	20	10	25	M8
75	2 1/2	<b>173 061 162</b>	10	0.027	9	52	52	20	10	25	M8
90	3	<b>173 061 163</b>	10	0.040	9	65	65	20	10	28	M8
110	4	<b>173 061 164</b>	10	0.050	9	79	79	20	10	28	M8
125	4 1/2	<b>173 061 165</b>	10	0.059	9	88	88	20	10	32	M8
140	5	<b>173 061 166</b>	10	0.065	9	98	98	20	10	32	M8
160	6	<b>173 061 167</b>	10	0.078	9	109	109	20	10	32	M8



### Pipe clip type 060 PP BS

#### Model:

- Material: clip and safety clip PP black, UV resistant
- Accidental opening of the safety clip is not possible
- **Minimum order quantity: standard packaging SP or gross packaging GP**
- Clip and safety clip are not assembled in the packaging.



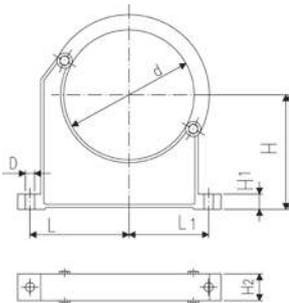
d (inch)	Code	SP	GP	Weight (kg)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	SC
3	167 060 038	10		0.144	9	105	15	33	89	71	M 8
4	167 060 064	10	30	0.160	9	120	15	33	100	82	M 8
5	167 060 041	10		0.260	11	130	20	35	121	98	M 10
6	167 060 067	10		0.302	11	148	25	35	136	111	M 10
8	167 060 070	5		0.514	13	175	25	39	165	132	M 12



### 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	SP	Weight (kg)	D (mm)	L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)	SC	closest inch (inch)
90	167 060 038	10	0.144	9	89	71	105	15	33	M 8	3
110	167 060 039	10	0.158	9	94	80	115	15	33	M 8	4
125	167 060 040	10	0.249	11	116	91	130	20	35	M10	
140	167 060 041	10	0.260	11	121	99	130	20	35	M10	5
160	167 060 042	10	0.296	11	131	107	148	20	35	M10	6
180	167 060 043	10	0.327	11	143	115	163	20	35	M10	7
200	167 060 019	5	0.539	13	151	120	175	25	39	M12	8
225	167 060 020	5	0.612	13	164	132	175	25	39	M12	8
250	167 060 021	5	0.657	13	183	143	200	25	39	M12	9
280	167 060 022	5	0.722	13	197	156	200	25	39	M12	10
315	167 060 023	5	0.805	13	219	171	225	25	39	M12	12
355	167 060 024	5	1.251	17	275	209	258	30	50	M16	14
400	167 060 025	4	1.031	17	300	228	288	30	50	M16	16

## Solvent Cementing Tools



### Tangit ABS solvent cement

Description	Code	SP	Weight (kg)
Tin: 0.65 kg (net)	799 298 022	6	0.750



### Tangit PVC-U/PVC-C/ABS cleaner/primer

**Model:**

- For PVC-U, PVC-C, ABS
- 1 litre tin

Code	SP	Weight (kg)
799 298 010	12	0.900



### Cap for cement

- Cap prevents the evaporation of the solvent whilst using the Tangit cement

Code	SP	Weight (kg)
799 298 028	500	0.030



### Round brush

d-d (mm)		Code	SP	Weight (kg)	Closest inch (inch)
6 - 10	4 mm (for Fittings 6-10mm)	799 299 001	12	0.004	1/8
12 - 32	8 mm (for Fittings 12-32mm)	799 299 002	12	0.006	1/4 - 1



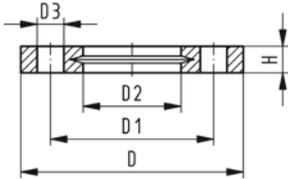
### Flat brush

d-d (mm)		Code	SP	Weight (kg)	Closest inch (inch)
40 - 63	25x3 mm (for Fittings 40-63mm)	799 299 003	12	0.015	1 1/4 - 2
75 - 225	50x5 mm (for Fittings 75-225mm)	799 299 004	12	0.035	2 1/2 - 8
250 - 400	75x6 mm (for Fittings 250-400mm)	799 299 005	12	0.053	9 - 16

## Backing Flanges

Backing flanges, Steel

# Backing flanges, PP-V



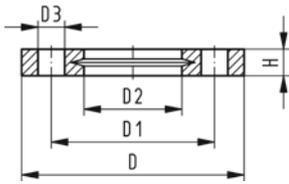
## Flanges PP-V (full plastic)

### 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

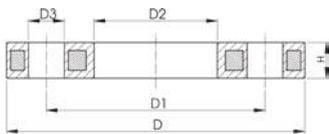
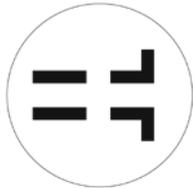
d (mm)	DN (mm)	d (inch)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
20	15		16	Metric	PN10	Butt/Socket	<b>727 700 406</b>	0.093
20	15	½	16	ASME	class 150	Butt/Socket	<b>727 701 406</b>	0.091
25	20		16	Metric	PN10	Butt/Socket	<b>727 700 407</b>	0.120
25	20	¾	16	ASME	class 150	Butt/Socket	<b>727 701 407</b>	0.120
32	25		16	Metric	PN10	Butt/Socket	<b>727 700 408</b>	0.151
32	25	1	16	ASME	class 150	Butt/Socket	<b>727 701 408</b>	0.147
40	32		16	Metric	PN10	Butt/Socket	<b>727 700 409</b>	0.244
40	32	1 ¼	16	ASME	class 150	Butt/Socket	<b>727 701 409</b>	0.246
50	40		16	Metric	PN10	Butt/Socket	<b>727 700 410</b>	0.297
50	40	1 ½	16	ASME	class 150	Butt/Socket	<b>727 701 410</b>	0.299
63	50		16	Metric	PN10	Butt/Socket	<b>727 700 411</b>	0.362
63	50	2	16	ASME	class 150	Butt/Socket	<b>727 701 411</b>	0.361
75	65		16	Metric	PN10	Butt/Socket	<b>727 700 412</b>	0.487
75	65	2 ½	16	ASME	class 150	Butt/Socket	<b>727 701 412</b>	0.492
90	80		16	Metric	PN10	Socket	<b>727 700 413</b>	0.550
90	80		16	Metric	PN10	Butt	<b>727 700 513</b>	0.544
90	80	3	16	ASME	class 150	Socket	<b>727 701 413</b>	0.605
90	80	3	16	ASME	class 150	Butt	<b>727 701 513</b>	0.607
110	100		16	Metric	PN10	Socket	<b>727 700 414</b>	0.640
110	100		16	Metric	PN10	Butt	<b>727 700 514</b>	0.643
110	100	4	16	ASME	class 150	Socket	<b>727 701 414</b>	0.704
110	100	4	16	ASME	class 150	Butt	<b>727 701 514</b>	0.736
125	100		16	Metric	PN10	Butt	<b>727 700 515</b>	0.635
140	125		16	Metric	PN10	Socket	<b>727 700 416</b>	0.781
140	125		16	Metric	PN10	Butt	<b>727 700 516</b>	0.842
160	150		16	Metric/ASME	PN10/ class 150	Socket	<b>727 700 417</b>	1.050
160	150	6	16	Metric/ASME	PN10/ class 150	Butt	<b>727 700 517</b>	1.200
180	150		16	Metric/ASME	PN10/ Class 150	Butt	<b>727 700 518</b>	1.200
200	200		16	Metric/ASME	PN10/ class 150	Socket	<b>727 700 419</b>	1.629
200	200	8	16	Metric/ASME	PN10/ class 150	Butt	<b>727 700 519</b>	1.400
225	200		16	Metric/ASME	PN10/ class 150	Socket	<b>727 700 420</b>	1.400
225	200	8	16	Metric/ASME	PN10/ class 150	Butt	<b>727 700 520</b>	1.400
250	250		10	Metric	PN10	Socket	<b>727 700 421</b>	2.229
250	250		10	Metric	PN10	Butt	<b>727 700 521</b>	2.052
250	250	10	10	ASME	class 150	Butt	<b>727 701 521</b>	2.241
280	250		10	Metric	PN10	Socket	<b>727 700 422</b>	1.651
280	250		10	Metric	PN10	Butt	<b>727 700 522</b>	1.700
280	250	10	10	ASME	class 150	Socket	<b>727 701 422</b>	1.838
280	250	10	10	ASME	class 150	Butt	<b>727 701 522</b>	2.173
315	300		10	Metric	PN10	Socket	<b>727 700 423</b>	2.461
315	300		10	Metric	PN10	Butt	<b>727 700 523</b>	2.400
315	300	12	10	ASME	class 150	Socket	<b>727 701 423</b>	3.482
315	300	12	10	ASME	class 150	Butt	<b>727 701 523</b>	3.627



d (mm)	DN (mm)	d (inch)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
355	350		10	Metric	PN10	Socket	<b>727 700 424</b>	3.000
355	350		10	Metric	PN10	Butt	<b>727 700 524</b>	4.440
400	400		10	Metric	PN10	Socket	<b>727 700 425</b>	5.135
400	400		10	Metric	PN10	Butt	<b>727 700 525</b>	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
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

# Backing flanges, PP-Steel



## Flanges PP-Steel

### Model:

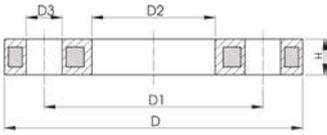
- Material: PP (30% glass-fibre reinforced) with steel ring
- Metric: ISO 7005, EN 1092, ISO 9624
- ASME: ANSI/ASME B 16.5 class 150, ASTM D4024, BS 1560, BS EN 1759
- Special flange adapter ANSI for d25 - d50 and d90 required

AL: number of holes

\* FM 1613 approved - 15 bar

\*\* Profiled loose flange

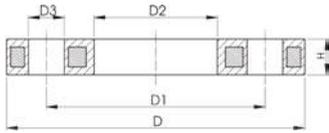
	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	20	15	95	16	Metric	PN10	Butt/Socket	<b>727 700 206</b>	0.216
	20	15	95	16	ASME	class 150	Butt/Socket	<b>727 701 206</b>	0.213
	25	20	105	16	Metric	PN10	Butt/Socket	<b>727 700 207</b>	0.279
	25	20	105	16	ASME	class 150	Butt/Socket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



	d (mm)	DN (mm)	D (mm)	PN (bar)	Standard	Bolt / circle	Design	Code	Weight (kg)
	250	250	395	16	Metric	PN10	Socket	<b>727 700 821</b>	7.179
*, **	280	250	410	16	Metric	PN16	Butt	<b>724 700 322</b>	6.310
	280	250	395	16	Metric	PN10	Butt	<b>727 700 722</b>	6.573
	280	250	395	16	Metric	PN10	Socket	<b>727 700 822</b>	5.547
*, **	315	300	455	16	Metric	PN16	Butt	<b>724 700 323</b>	9.740
	315	300	445	16	Metric	PN10	Butt	<b>727 700 723</b>	7.903
	315	300	445	16	Metric	PN10	Socket	<b>727 700 823</b>	6.980
	315	300	483	10	ASME	class 150	Butt	<b>727 701 322</b>	11.800
*, **	355	350	521	16	Metric	PN16	Butt	<b>724 700 324</b>	15.203
	355	350	515	16	Metric	PN10	Butt	<b>727 700 724</b>	14.587
	355	350	515	16	Metric	PN10	Socket	<b>727 700 824</b>	12.465
	355	350	540	10	ASME	class 150	Butt	<b>727 701 323</b>	17.900
*, **	400	400	582	16	Metric	PN16	Butt	<b>724 700 325</b>	20.600
	400	400	574	16	Metric	PN10	Butt	<b>727 700 725</b>	20.034
	400	400	574	16	Metric	PN10	Socket	<b>727 700 825</b>	17.607
	400	400	597	10	ASME	class 150	Butt	<b>727 701 324</b>	24.500
*, **	450	500	685	10	Metric	PN10	Butt	<b>724 700 426</b>	25.600
*, **	500	500	685	10	Metric	PN10	Butt	<b>724 700 427</b>	21.061
**	560	600	796	10	Metric	PN10	Butt	<b>724 700 428</b>	35.000
**	630	600	800	10	Metric	PN10	Butt	<b>724 700 429</b>	28.500
**	710	700	912	6	Metric	PN10	Butt	<b>724 700 430</b>	25.500
**	800	800	1026	6	Metric	PN10	Butt	<b>724 700 431</b>	39.300
**	900	900	1129	6	Metric	PN10	Butt	<b>724 700 432</b>	48.500
	450	500	712	10	ASME	class 150	Butt	<b>727 701 325</b>	33.600

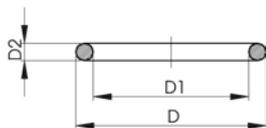
	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	20	65	28	14	12	4	M12
	20	60	28	16	12	4	M12
	25	75	34	14	12	4	M12
	25	70	34	16	12	4	M12
	32	85	42	14	16	4	M12
	32	79	42	16	16	4	M12
	40	100	51	18	16	4	M16
	40	89	51	16	16	4	M16
	50	110	62	18	20	4	M16
	50	98	62	16	18	4	M16
	63	125	78	18	20	4	M16
	63	121	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

table continued on the next page



	d (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H max. (mm)	AL	SC
	200	295	235	22	27	8	M20
	200	295	226	22	29	8	M20
*, **	225	295	238	22	31	12	M20
	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

## Gaskets



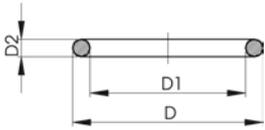
### O-ring EPDM/FKM

#### Model:

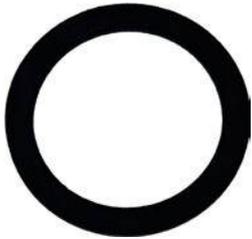
- For unions and adaptor unions
- Hardness approx. 65° Shore
- EPDM minimum temperature -40°C
- FKM minimum temperature -15°C

\* 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	<b>748 410 004</b>	0.002	<b>749 410 004</b>	0.020
	16	10	<b>748 410 005</b>	0.002	<b>749 410 005</b>	0.002
	20	15	<b>748 410 006</b>	0.002	<b>749 410 006</b>	0.002
	25	20	<b>748 410 007</b>	0.002	<b>749 410 007</b>	0.002
	32	25	<b>748 410 008</b>	0.003	<b>749 410 008</b>	0.002
	40	32	<b>748 410 009</b>	0.003	<b>749 410 009</b>	0.007
	50	40	<b>748 410 010</b>	0.004	<b>749 410 010</b>	0.060
	63	50	<b>748 410 011</b>	0.005	<b>749 410 011</b>	0.003
*	90	80	<b>748 410 248</b>	0.002	<b>749 410 248</b>	0.020



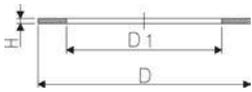
	<b>d</b> (mm)	<b>D</b> (mm)	<b>D1</b> (mm)	<b>D2</b> (mm)	<b>closest inch</b> (inch)
	10 - 12	17.62	12.37	2.62	¼
	16	20.78	15.54	2.62	¾
	20	27.28	20.22	3.53	½
	25	35.23	28.17	3.53	¾
	32	39.99	32.93	3.53	1
	40	51.33	40.65	5.34	1 ¼
	50	57.68	46.99	5.34	1 ½
	63	70.37	59.69	5.34	2
*	90	105.30	94.62	5.34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



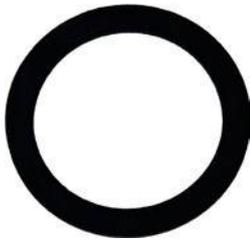
### Flat gasket For tank adaptors

#### Model:

- Hardness approx. 65° Shore
- For adaptor unions



<b>Size</b> (inch)	<b>EPDM</b> <b>Code</b>	<b>Weight</b> (kg)	<b>FKM</b> <b>Code</b>	<b>Weight</b> (kg)	<b>D</b> (mm)	<b>D1</b> (mm)	<b>H</b> (mm)
¼	<b>748 400 004</b>	0.002			20	13	2
⅜	<b>748 400 005</b>	0.002	<b>749 400 005</b>	0.020	24	17	2
½	<b>748 400 006</b>	0.002	<b>749 400 006</b>	0.003	30	21	3
¾	<b>748 400 007</b>	0.003	<b>749 400 007</b>	0.004	38	27	3
1	<b>748 400 008</b>	0.010	<b>749 400 008</b>	0.002	44	32	3
1 ¼	<b>748 400 009</b>	0.007	<b>749 400 009</b>	0.003	55	42	3
1 ½	<b>748 400 010</b>	0.004	<b>749 400 010</b>	0.007	62	46	3
2	<b>748 400 011</b>	0.005	<b>749 400 011</b>	0.006	78	60	3
2 ½	<b>748 400 012</b>	0.010	<b>749 400 012</b>	0.009	97	75	3
3	<b>748 400 013</b>	0.011	<b>749 400 013</b>	0.011	109	88	3

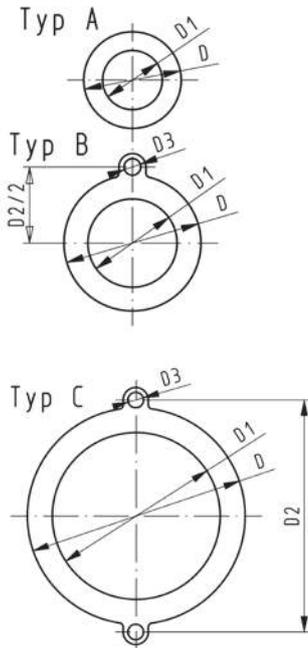


## Flat gasket EPDM

### Model:

- For all metric GF Flange Adaptors
- Hardness approx. 65° Shore
- Integrated fixation aids from d110
- Centering on the inner diameter of the screw crown

di FA are the suitable inner diameters of flanges adaptors



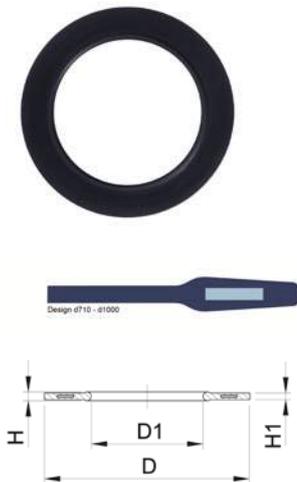
d (mm)	DN (mm)	PN (bar)	Type	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	di FA (mm)
16	10	10	A	748 400 305	0.004	46	16			2	6 - 26
20	15	10	A	748 400 306	0.012	51	20			2	10 - 30
25	20	10	A	748 400 307	0.004	61	25			2	15 - 35
32	25	10	A	748 400 308	0.008	71	32			2	22 - 42
40	32	10	A	748 400 309	0.013	82	40			3	30 - 50
50	40	10	A	748 400 310	0.016	92	50			3	40 - 60
63	50	10	A	748 400 311	0.018	107	63			3	53 - 73
75	65	10	A	748 400 312	0.029	127	71			3	61 - 81
90	80	10	A	748 400 313	0.035	142	84			3	74 - 94
110	100	10	B	748 400 314	0.051	162	104	180	18	4	94 - 114
125	100	10	B	748 400 315	0.044	162	119	180	18	4	109 - 129
140	125	10	B	748 400 316	0.068	192	134	210	18	4	124 - 144
160 - 180	150	10	B	748 400 317	0.090	218	155	241	22	4	145 - 165
200	200	6	C	748 400 319	0.180	273	195	295	22	5	185 - 205
225	200	6	C	748 400 320	0.140	273	216	295	22	5	206 - 226
250	250	6	C	748 400 321	0.210	328	250	350	22	5	240 - 260
280	250	6	C	748 400 322	0.151	328	273	350	22	5	263 - 283
315	300	6	C	748 400 323	0.237	378	305	400	22	5	295 - 315

## Profile Flange Gasket EPDM/FKM metric

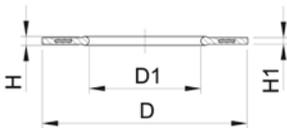
### Model:

- 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
20	15	16	748 440 706	749 440 706	0.013	51	20	10 - 20	4	3
25	20	16	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
40	32	16	748 440 709	749 440 709	0.026	82	40	30 - 40	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 - 180	150	16	748 440 717	749 440 717	0.207	218	160	150 - 160	8	6
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



d (mm)	DN (mm)	PN (bar)	EPDM Code	FKM Code	Weight (kg)	D (mm)	D1 (mm)	di FA (mm)	H (mm)	H1 (mm)
355	350	16	<b>748 440 724</b>	<b>749 440 724</b>	0.870	438	355	340 - 355	10	7
400	400	16	<b>748 440 725</b>	<b>749 440 725</b>	1.088	489	400	385 - 400	10	7
450	500	10	<b>748 440 726</b>	<b>749 440 726</b>	0.718	594	403	393 - 403	10	7
500	500	10	<b>748 440 727</b>	<b>749 440 727</b>	0.718	594	447	437 - 447	10	7
560	600	10	<b>748 440 728</b>	<b>749 440 728</b>	0.923	695	494	484 - 494	10	7
630	600	10	<b>748 440 729</b>	<b>749 440 729</b>	0.923	695	555	545 - 555	10	7
710	700	6	<b>748 440 730</b>		0.890	810	712	562 - 712	6	3
800	800	6	<b>748 440 731</b>		1.340	917	813	663 - 813	6	3
900	900	6	<b>748 440 732</b>		1.170	1017	915	765 - 915	6	3
1000	1000	6	<b>748 440 733</b>		1.360	1124	1016	866 - 1016	6	3



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