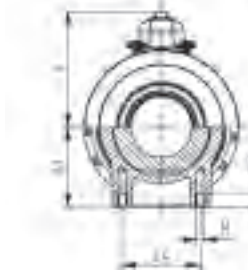
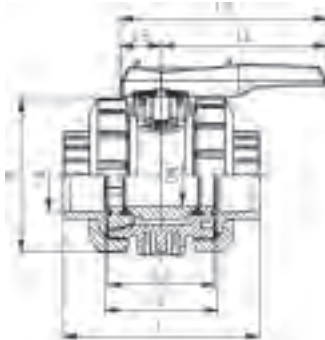
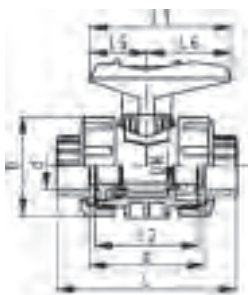


Product Range International 2016

PVC-U



Ball valve type 546



Ball valve type 546 PVC-U
With mounting inserts
With solvent cement sockets metric

Model:

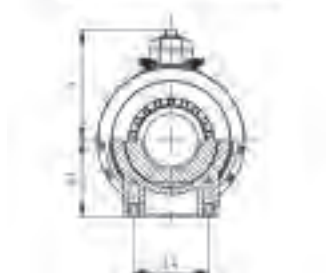
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

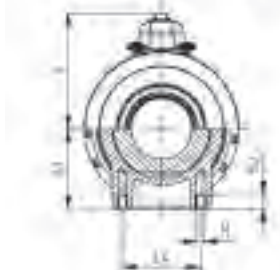
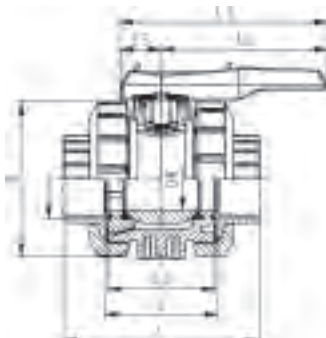
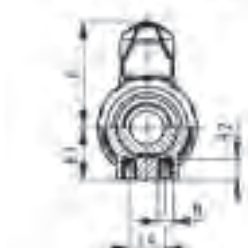
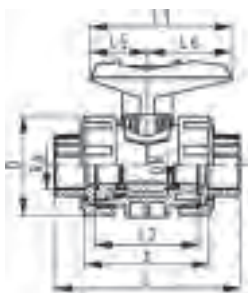
d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16		10	16	71	161 546 061	0.153	161 546 071	0.156
20		15	16	185	161 546 062	0.156	161 546 072	0.158
25		20	16	350	161 546 063	0.240	161 546 073	0.242
32		25	16	700	161 546 064	0.343	161 546 074	0.345
40		32	16	1000	161 546 065	0.610	161 546 075	0.615
50		40	16	1600	161 546 066	0.838	161 546 076	0.844
63		50	16	3100	161 546 067	1.537	161 546 077	1.552
75	2 ½	65	16	5000	161 546 068	4.343	161 546 078	3.563
90		80	16	7000	161 546 069	6.184	161 546 079	5.376
110		100	16	11000	161 546 070	8.642	161 546 080	11.600

d	D	H	H1	H2	L	L1	L2	L4	L5	L6	M	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
													(inch)
16	50	57	27	12	92	77	56	25	32	45	6	64	¾
20	50	57	27	12	95	77	56	25	32	45	6	64	½
25	58	67	30	12	110	97	65	25	39	58	6	72	¾
32	68	73	36	12	123	97	71	25	39	58	6	79	1
40	84	90	44	15	146	128	85	45	54	74	8	94	1 ¼
50	97	97	51	15	157	128	89	45	54	74	8	95	1 ½
63	124	116	64	15	183	152	101	45	66	87	8	107	2
75	166	149	85	15	233	270	136	70	64	206	8	144	2 ½
90	200	161	105	15	254	270	141	70	64	206	8	151	3
110	238	178	123	22	301	320	164	120	64	256	12	174	4





DN10/15 - 50



Ball valve type 546 PVC-U **With mounting inserts** **With threaded sockets Rp**

Model:

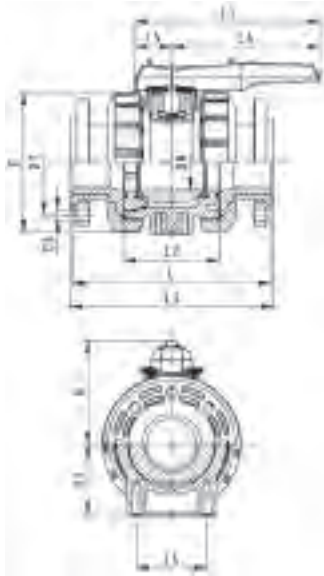
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Rp (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	71	161 546 741	0.152	161 546 751	0.152
1/2	15	10	185	161 546 742	0.159	161 546 752	0.152
3/4	20	10	350	161 546 743	0.242	161 546 753	0.232
1	25	10	700	161 546 744	0.352	161 546 754	0.332
1 1/4	32	10	1000	161 546 745	0.605	161 546 755	0.605
1 1/2	40	10	1600	161 546 746	0.805	161 546 756	0.805
2	50	10	3100	161 546 747	1.580	161 546 757	1.465
2 1/2	65	10	5000	161 546 748	5.000	161 546 758	5.000
3	80	10	7000	161 546 749	1.000	161 546 759	7.500
4	100	10	11000	161 546 750	11.700	161 546 760	11.700

Rp (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
3/8	50	57	27	12	95	77	56	25	32	45	M6	69
1/2	50	57	27	12	100	77	56	25	32	45	M6	67
3/4	58	67	30	12	114	97	65	25	39	58	M6	78
1	68	73	36	12	127	97	71	25	39	58	M6	85
1 1/4	84	90	44	15	146	128	85	45	54	74	M8	100
1 1/2	97	97	51	15	152	128	89	45	54	74	M8	106
2	124	116	64	15	177	152	101	45	66	87	M8	121
2 1/2	166	149	85	15	233	270	136	70	64	206	M8	144
3	200	161	105	15	254	270	141	70	64	206	M8	151
4	238	178	123	22	301	320	164	120	64	256	M12	174



Ball valve type 546 PVC-U
With mounting inserts
With backing flanges PVC-U metric

Model:

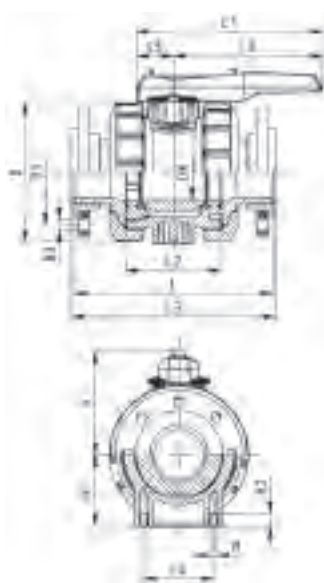
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
75	65	10	5000	161 546 108	4.764	161 546 118	7.200
90	80	10	7000	161 546 109	6.983	161 546 119	7.008
110	100	10	11000	161 546 110	11.879	161 546 120	16.500

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	closest inch (inch)
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
75	166	149	85	15	284	270	136	290	70	64	206	M8	1 ¼
90	200	161	105	15	300	270	141	310	70	64	206	M8	1 ½
110	238	178	123	22	340	320	164	350	120	64	256	M12	2



Ball valve type 546 PVC-U
With mounting inserts
With backing flanges PP-st metric

Model:

- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
75	65	16	5000	161 546 948	9.100	161 546 958	9.100
90	80	16	7000	161 546 949	12.400	161 546 959	12.400
110	100	16	11000	161 546 950	13.825	161 546 960	18.500

d	D	H	H1	L	L1	L2	L3	L4	L5	L6	closest inch (inch)
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
75	166	149	85	284	270	136	290	70	64	206	1 ¼
90	200	161	105	300	270	141	310	70	64	206	1 ½
110	238	178	123	340	320	164	350	120	64	256	2



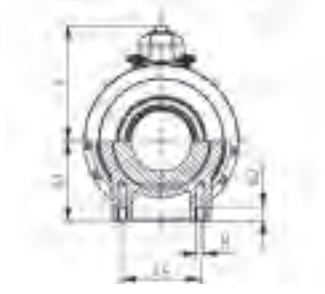
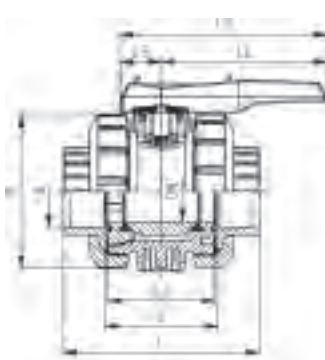
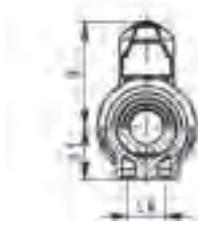
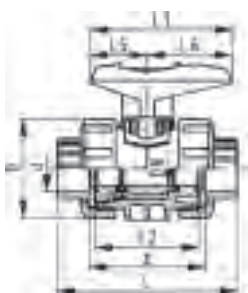
Ball valve type 546 PVC-U **With solvent cement sockets metric**

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

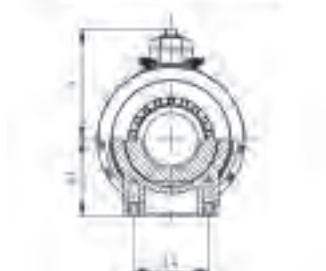
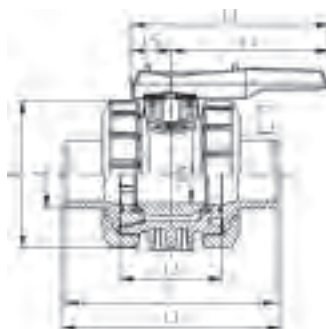
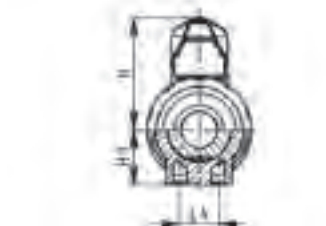
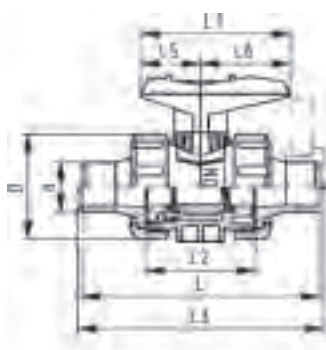
Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	16	71	161 546 001	0.148	161 546 011	0.150
20	15	16	185	161 546 002	0.150	161 546 012	0.152
25	20	16	350	161 546 003	0.233	161 546 013	0.237
32	25	16	700	161 546 004	0.336	161 546 014	0.343
40	32	16	1000	161 546 005	0.600	161 546 015	0.603
50	40	16	1600	161 546 006	0.830	161 546 016	0.851
63	50	16	3100	161 546 007	1.523	161 546 017	1.542
75	65	16	5000	161 546 008	3.781	161 546 018	3.794
90	80	16	7000	161 546 009	5.338	161 546 019	7.400
110	100	16	11000	161 546 010	8.650	161 546 020	11.600

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)	closest inch (inch)
16	50	57	27	92	77	56	25	32	45	64	¾
20	50	57	27	95	77	56	25	32	45	64	¾
25	58	67	30	110	97	65	25	39	58	72	¾
32	68	73	36	123	97	71	25	39	58	79	1
40	84	90	44	146	128	85	45	54	74	94	1 ¼
50	97	97	51	157	128	89	45	54	74	95	1 ½
63	124	116	64	183	152	101	45	66	87	107	2
75	166	149	85	233	270	136	70	64	206	144	2 ½
90	200	161	105	254	270	141	70	64	206	151	3
110	238	178	123	301	320	164	120	64	256	174	4



Ball valve type 546 PVC-U With solvent cement spigots metric

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	16	71	161 546 041	0.155	161 546 051	0.155
20	15	16	185	161 546 042	0.155	161 546 052	0.155
25	20	16	350	161 546 043	0.240	161 546 053	0.240
32	25	16	700	161 546 044	0.351	161 546 054	0.345
40	32	16	1000	161 546 045	0.610	161 546 055	0.615
50	40	16	1600	161 546 046	0.840	161 546 056	0.840
63	50	16	3100	161 546 047	1.602	161 546 057	1.545
75	65	16	5000	161 546 048	5.100	161 546 058	5.100
90	80	16	7000	161 546 049	5.776	161 546 059	7.500
110	100	16	11000	161 546 050	11.900	161 546 060	11.900

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	closest inch (inch)
16	50	57	27	114	77	56		25	32	45	¾
20	50	57	27	124	77	56	130	25	32	45	¾
25	58	67	30	144	97	65	150	25	39	58	¾
32	68	73	36	154	97	71	160	25	39	58	1
40	84	90	44	174	128	85	180	45	54	74	1 ¼
50	97	97	51	194	128	89	200	45	54	74	1 ½
63	124	116	64	224	152	101	230	45	66	87	2
75	166	149	85	284	270	136	290	70	64	206	2 ½
90	200	161	105	300	270	141	310	70	64	206	3
110	238	178	123	340	320	164	350	120	64	256	4



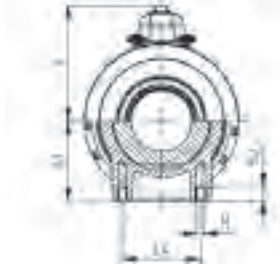
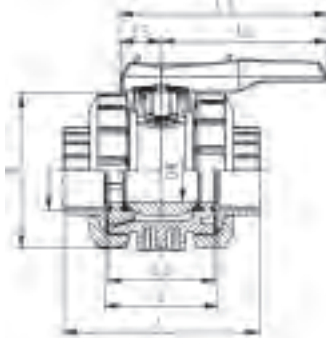
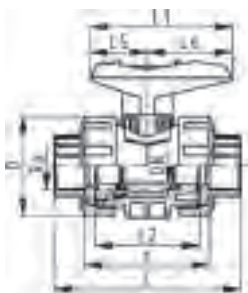
Ball valve type 546 PVC-U **With threaded sockets Rp**

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

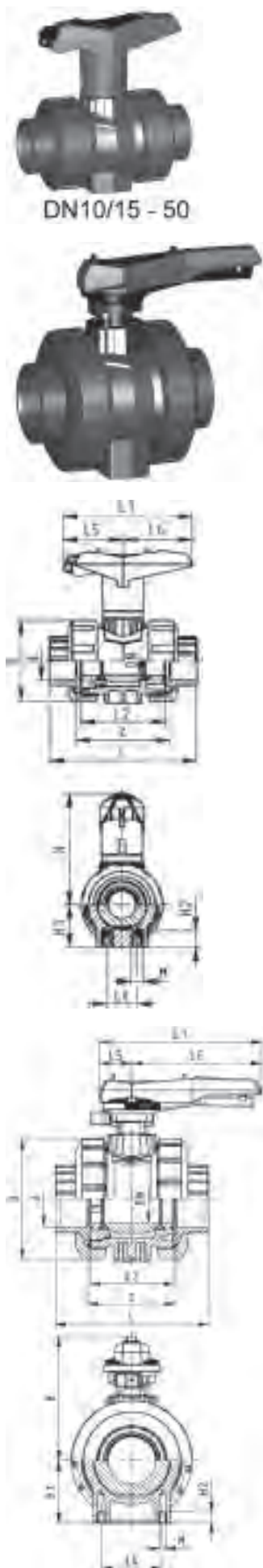
Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



Rp (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	71	161 546 021	0.150	161 546 031	0.150
1/2	15	10	185	161 546 022	0.155	161 546 032	0.150
3/4	20	10	350	161 546 023	0.238	161 546 033	0.230
1	25	10	700	161 546 024	0.348	161 546 034	0.330
1 1/4	32	10	1000	161 546 025	0.603	161 546 035	0.600
1 1/2	40	10	1600	161 546 026	0.800	161 546 036	0.800
2	50	10	3100	161 546 027	1.575	161 546 037	1.460
2 1/2	65	10	5000	161 546 028	5.000	161 546 038	5.000
3	80	10	7000	161 546 029	5.437	161 546 039	7.500
4	100	10	11000	161 546 030	11.700	161 546 040	11.700

Rp (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)
3/8	50	57	27	95	77	56	25	32	45	69
1/2	50	57	27	100	77	56	25	32	45	67
3/4	58	67	30	114	97	65	25	39	58	78
1	68	73	36	127	97	71	25	39	58	85
1 1/4	84	90	44	146	128	85	45	54	74	100
1 1/2	97	97	51	152	128	89	45	54	74	106
2	124	116	64	177	152	101	45	66	87	121
2 1/2	166	149	85	233	270	136	70	64	206	144
3	200	161	105	254	270	141	70	64	206	151
4	238	178	123	301	320	164	120	64	256	174



Ball valve type 546 PVC-U
With lockable handle
With solvent cement sockets metric

Model:

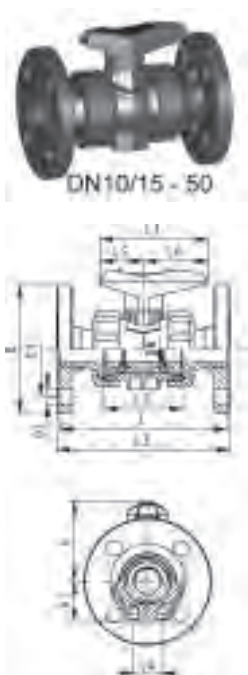
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
16		10	16	71	161 546 081	0.165	161 546 091	0.165
20		15	16	185	161 546 082	0.165	161 546 092	0.165
25		20	16	350	161 546 083	0.255	161 546 093	0.255
32		25	16	700	161 546 084	0.364	161 546 094	0.355
40		32	16	1000	161 546 085	0.640	161 546 095	0.640
50		40	16	1600	161 546 086	0.840	161 546 096	0.840
63		50	16	3100	161 546 087	1.571	161 546 097	1.500
75	2 ½	65	16	5000	161 546 088	5.200	161 546 098	5.200
90		80	16	7000	161 546 089	7.700	161 546 099	7.700
110		100	16	11000	161 546 090	12.000	161 546 100	12.000

d	D	H	H1	H2	L	L1	L2	L4	L5	L6	M	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	inch
													(inch)
16	50	79	27	12	92	87	56	25	42	45	M6	64	¾
20	50	79	27	12	95	87	56	25	42	45	M6	64	½
25	58	88	30	12	110	108	65	25	50	58	M6	72	¾
32	68	94	36	12	123	108	71	25	50	58	M6	79	1
40	84	113	44	15	146	140	85	45	66	75	M8	94	1 ¼
50	97	119	51	15	157	140	89	45	66	75	M8	95	1 ½
63	124	141	64	15	183	165	101	45	78	87	M8	107	2
75	166	224	85	15	233	270	136	70	64	206	M8	144	2 ½
90	200	235	105	15	254	270	141	70	64	206	M8	151	3
110	238	245	123	22	301	320	164	120	64	256	M12	174	4



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

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
20	15	16	185	800 000 182	0.370	800 000 192	0.370
25	20	16	350	800 000 183	0.510	800 000 193	0.510
32	25	16	700	800 000 184	0.724	800 000 194	0.727
40	32	16	1000	800 000 185	1.235	800 000 195	1.230
50	40	16	1600	800 000 186	1.609	800 000 196	1.621
63	50	16	3100	800 000 187	2.636	800 000 197	2.653

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



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

Model:

- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 90° with scale
- Integrated stainless steel mounting inserts

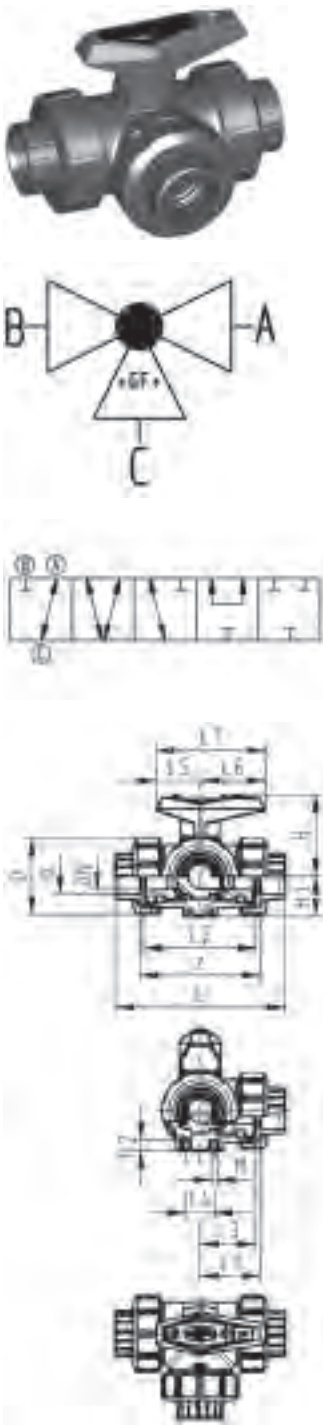
Option:

- Individual configuration of the valve (see diagram)
- Pneumatic or electric actuators from +GF+
- Other materials on demand

d	DN	PN	kv-value	EPDM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
20	15	10	185	800 052 602	0.156
25	20	10	350	800 052 603	0.240
32	25	10	700	800 052 604	0.343
40	32	10	1000	800 052 605	0.610
50	40	10	1600	800 052 606	0.838
63	50	10	3100	800 052 607	1.537

d	D	H	H1	L	L1	L2	L4	L5	L6	z	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
20	50	57	27	95	77	56	25	32	45	64	½
25	58	67	30	110	97	65	25	39	58	72	¾
32	68	73	36	123	97	71	25	39	58	79	1
40	84	90	44	146	128	85	45	54	74	94	1 ¼
50	97	97	51	157	128	89	45	54	74	95	1 ½
63	124	116	64	183	152	101	45	66	87	107	2

3-Way ball valves type 543



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

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

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

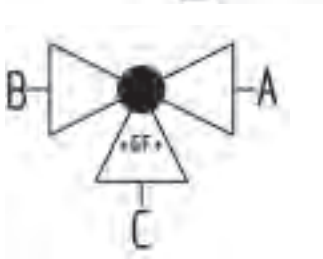
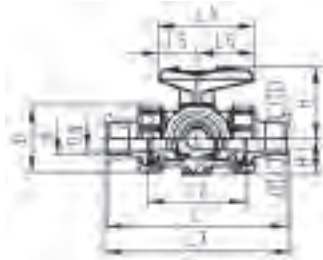
d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
															(inch)
16	50	57	28	8	109	77	73	36	25	32	45	6	81	40	3/8
20	50	57	28	8	112	77	73	36	25	32	45	6	81	40	1/2
25	58	67	32	8	131	97	86	43	25	39	58	6	94	47	3/4
32	68	73	36	8	151	97	99	50	25	39	58	6	107	54	1
40	84	90	45	9	181	128	120	60	45	54	74	8	130	65	1 1/4
50	97	97	51	9	205	128	137	69	45	54	74	8	143	72	1 1/2
63	124	116	65	9	261	152	179	89	45	66	87	8	185	92	2



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

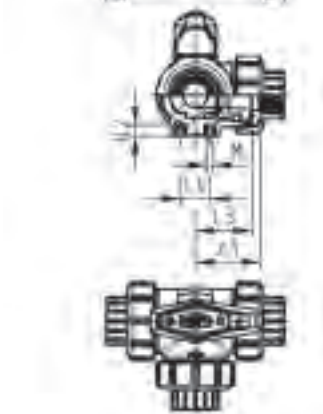
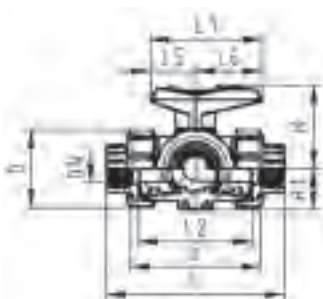
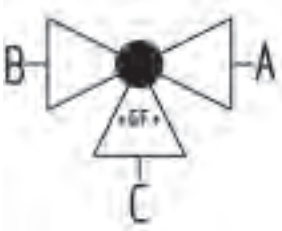
Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme



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

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	L7	M	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		inch
														(inch)
16	50	57	28	8	131	77	73	36	25	32	45	137	6	$\frac{3}{8}$
20	50	57	28	8	141	77	73	36	25	32	45	147	6	$\frac{1}{2}$
25	58	67	32	8	165	97	86	43	25	39	58	171	6	$\frac{3}{4}$
32	68	73	36	8	182	97	99	50	25	39	58	188	6	1
40	84	90	45	9	209	128	120	60	45	54	74	215	8	1 $\frac{1}{4}$
50	97	97	51	9	242	128	137	69	45	54	74	248	8	1 $\frac{1}{2}$
63	124	116	65	9	302	152	179	89	45	66	87	308	8	2



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

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

Rp (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	50	161 543 041	0.245	161 543 051	0.245
1/2	15	10	75	161 543 042	0.251	161 543 052	0.251
3/4	20	10	150	161 543 043	0.361	161 543 053	0.361
1	25	10	280	161 543 044	0.551	161 543 054	0.551
1 1/4	32	10	480	161 543 045	0.938	161 543 055	0.938
1 1/2	40	10	620	161 543 046	1.390	161 543 056	1.390
2	50	10	1230	161 543 047	2.705	161 543 057	2.705

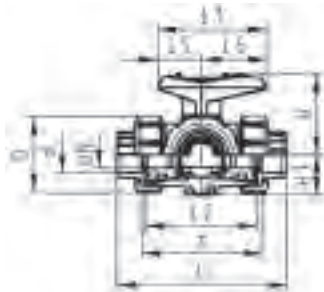
Rp (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)	z (mm)	z1 (mm)
3/8	50	57	28	8	113	77	73	36	25	32	45	6	87	43
1/2	50	57	28	8	117	77	73	36	25	32	45	6	85	42
3/4	58	67	32	8	135	97	86	43	25	39	58	6	100	50
1	68	73	36	8	155	97	99	50	25	39	58	6	113	57
1 1/4	84	90	45	9	179	128	120	60	45	54	74	8	134	67
1 1/2	97	97	51	9	201	128	137	69	45	54	74	8	155	78
2	124	116	65	9	255	152	179	89	45	66	87	8	199	99



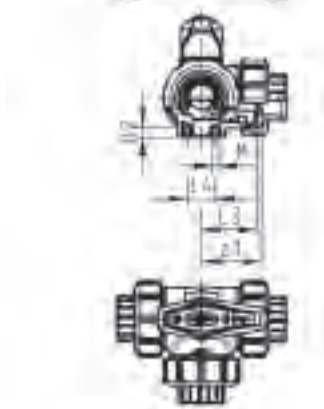
3-Way ball valve type 543 PVC-U
Horizontal/T-port
With solvent cement sockets metric

Model:

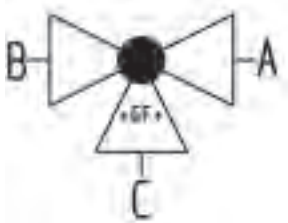
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

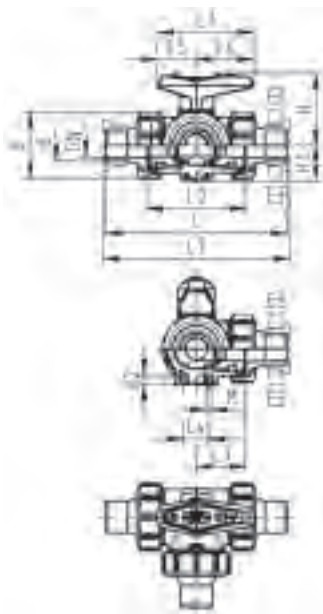
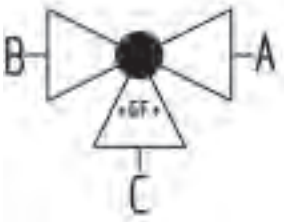


d	DN	PN	kv-value	EPDM	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	Code	(kg)
			(l/min)			
16	10	10	140	161 543 201	161 543 211	0.244
20	15	10	200	161 543 202	161 543 212	0.250
25	20	10	470	161 543 203	161 543 213	0.359
32	25	10	793	161 543 204	161 543 214	0.544
40	32	10	1290	161 543 205	161 543 215	0.927
50	40	10	1910	161 543 206	161 543 216	1.369
63	50	10	3100	161 543 207	161 543 217	2.660



d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
															(inch)
16	50	57	28	8	109	77	73	36	25	32	45	6	81	40	$\frac{3}{8}$
20	50	57	28	8	112	77	73	36	25	32	45	6	81	40	$\frac{1}{2}$
25	58	67	32	8	131	97	86	43	25	39	58	6	94	47	$\frac{3}{4}$
32	68	73	36	8	151	97	99	50	25	39	58	6	107	54	1
40	84	90	45	9	181	128	120	60	45	54	74	8	130	65	1 $\frac{1}{4}$
50	97	97	51	9	205	128	137	69	45	54	74	8	143	72	1 $\frac{1}{2}$
63	124	116	65	9	261	152	179	89	45	66	87	8	185	92	2





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

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	140	161 543 221	0.250	161 543 231	0.250
20	15	10	200	161 543 222	0.259	161 543 232	0.259
25	20	10	470	161 543 223	0.374	161 543 233	0.374
32	25	10	793	161 543 224	0.568	161 543 234	0.568
40	32	10	1290	161 543 225	0.948	161 543 235	0.948
50	40	10	1910	161 543 226	1.432	161 543 236	1.432
63	50	10	3100	161 543 227	2.747	161 543 237	2.786

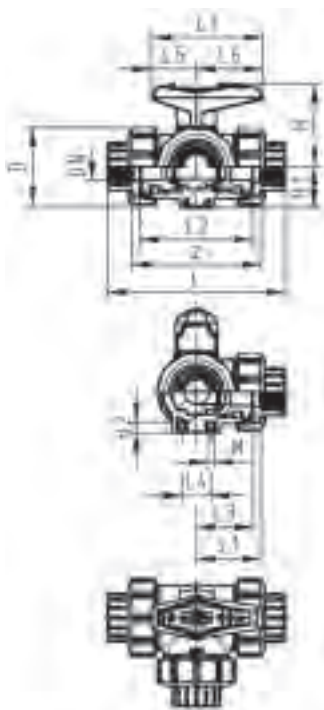
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	M	closest inch (inch)
16	50	57	28	8	131	77	73	36	25	32	45	137	6	$\frac{3}{8}$
20	50	57	28	8	141	77	73	36	25	32	45	147	6	$\frac{1}{2}$
25	58	67	32	8	165	97	86	43	25	39	58	171	6	$\frac{3}{4}$
32	68	73	36	8	182	97	99	50	25	39	58	188	6	1
40	84	90	45	9	209	128	120	60	45	54	74	215	8	1 $\frac{1}{4}$
50	97	97	51	9	242	128	137	69	45	54	74	248	8	1 $\frac{1}{2}$
63	124	116	65	9	302	152	179	89	45	66	87	308	8	2



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

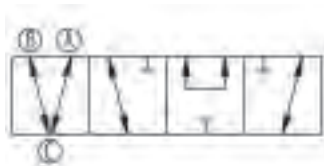
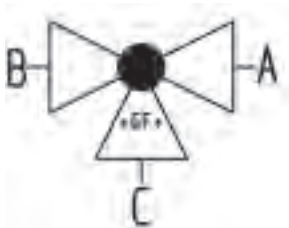
Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme



Rp (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	140	161 543 241	0.244	161 543 251	0.244
1/2	15	10	200	161 543 242	0.250	161 543 252	0.250
3/4	20	10	470	161 543 243	0.359	161 543 253	0.359
1	25	10	793	161 543 244	0.544	161 543 254	0.544
1 1/4	32	10	1290	161 543 245	0.927	161 543 255	0.927
1 1/2	40	10	1910	161 543 246	1.386	161 543 256	1.400
2	50	10	3100	161 543 247	2.660	161 543 257	2.660

Rp (inch)	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)
3/8	50	57	28	8	113	77	73	36	25	32	45	6	87	43
1/2	50	57	28	8	117	77	73	36	25	32	45	6	85	42
3/4	58	67	32	8	135	97	86	43	25	39	58	6	100	50
1	68	73	36	8	155	97	99	50	25	39	58	6	113	57
1 1/4	84	90	45	9	179	128	120	60	45	54	74	8	134	67
1 1/2	97	97	51	9	201	128	137	69	45	54	74	8	155	78
2	124	116	65	9	255	152	179	89	45	66	87	8	199	99





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

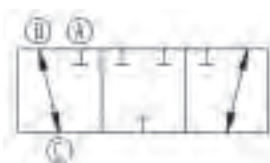
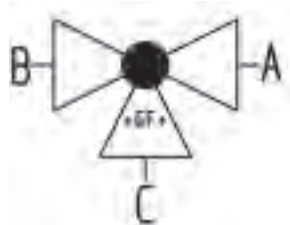
Model:

- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

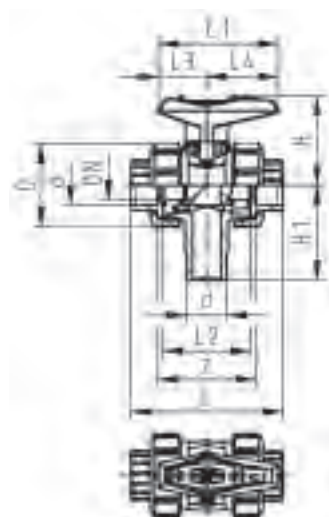
Mode of action:

- For interconnection of two inputs

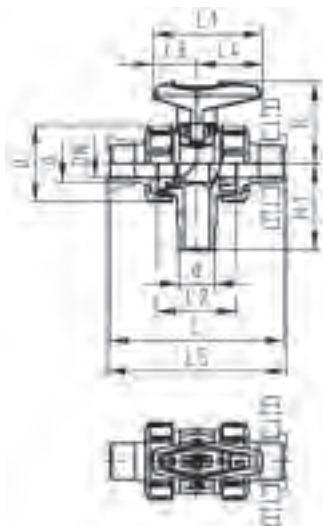
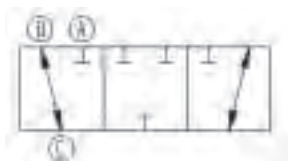
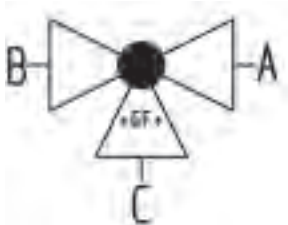
Individual configuration available on special request



d	DN	PN	kv-value	EPDM	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	Code	(kg)
			(l/min)			
16	10	10	49	161 543 401	161 543 411	0.162
20	15	10	77	161 543 402	161 543 412	0.166
25	20	10	146	161 543 403	161 543 413	0.255
32	25	10	260	161 543 404	161 543 414	0.372
40	32	10	437	161 543 405	161 543 415	0.622
50	40	10	667	161 543 406	161 543 416	0.886
63	50	10	1293	161 543 407	161 543 417	1.617



d	D	H	H1	L	L1	L2	L3	L4	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
										(inch)
16	50	57	62	92	77	56	32	45	64	3/8
20	50	57	62	95	77	56	32	45	64	1/2
25	58	67	72	111	97	66	39	58	74	3/4
32	68	73	77	123	97	71	39	58	79	1
40	84	90	87	146	128	85	54	74	95	1 1/4
50	97	97	97	157	128	89	54	74	95	1 1/2
63	124	116	112	183	152	101	66	87	107	2



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

Model:

- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

Mode of action:

- For interconnection of two inputs

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	49	161 543 441	0.166	161 543 451	0.166
20	15	10	77	161 543 442	0.172	161 543 452	0.172
25	20	10	146	161 543 443	0.265	161 543 453	0.265
32	25	10	260	161 543 444	0.388	161 543 454	0.388
40	32	10	437	161 543 445	0.637	161 543 455	0.636
50	40	10	667	161 543 446	0.917	161 543 456	0.928
63	50	10	1293	161 543 447	1.701	161 543 457	1.701

d	D	H	H1	L	L1	L2	L3	L4	L5	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
16	50	57	62	114	77	56	32	45	120	$\frac{3}{8}$
20	50	57	62	124	77	56	32	45	130	$\frac{1}{2}$
25	58	67	72	144	97	66	39	58	150	$\frac{3}{4}$
32	68	73	77	154	97	71	39	58	160	1
40	84	90	87	174	128	85	54	74	180	1 $\frac{1}{4}$
50	97	97	97	194	128	89	54	74	200	1 $\frac{1}{2}$
63	124	116	112	224	152	101	66	87	230	2



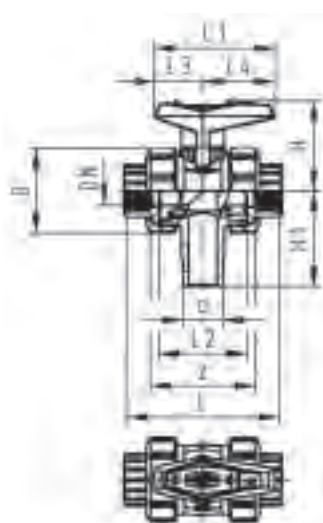
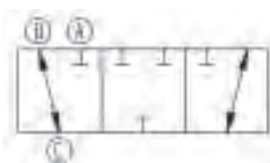
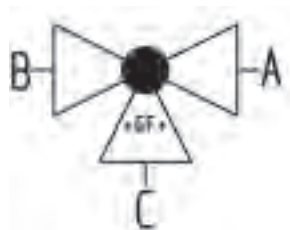
3-Way ball valve type 543 PVC-U
Vertical/L-port
With threaded sockets Rp

Model:

- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

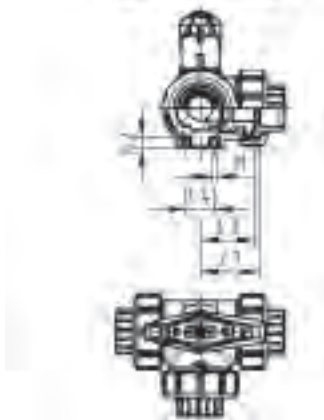
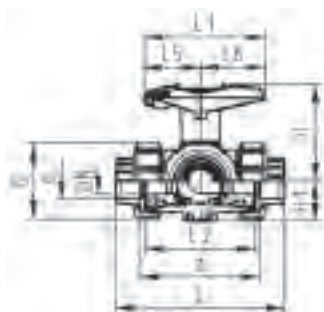
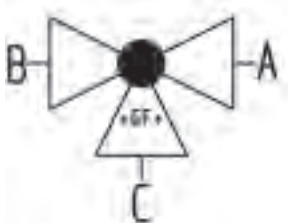
Mode of action:

- For interconnection of two inputs



Rp	DN	PN	kv-value	EPDM	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	Code	(kg)
			(l/min)			
3/8	10	10	49	161 543 421	161 543 431	0.162
1/2	15	10	77	161 543 422	161 543 432	0.166
3/4	20	10	146	161 543 423	161 543 433	0.255
1	25	10	260	161 543 424	161 543 434	0.372
1 1/4	32	10	437	161 543 425	161 543 435	0.622
1 1/2	40	10	667	161 543 426	161 543 436	0.886
2	50	10	1293	161 543 427	161 543 437	1.617

Rp	D	H	H1	L	L1	L2	L3	L4	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	50	57	62	96	77	56	32	45	69
1/2	50	57	62	99	77	56	32	45	67
3/4	58	67	72	115	97	66	39	58	78
1	68	73	77	127	97	71	39	58	85
1 1/4	84	90	87	144	128	85	54	74	100
1 1/2	97	97	97	153	128	89	54	74	106
2	124	116	112	177	152	101	66	87	121



3-Way ball valve type 543 PVC-U

Horizontal/L-port
With lockable handle
With solvent cement sockets metric

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-C opened, see flow scheme

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	50	161 543 161	0.259	161 543 171	0.259
20	15	10	75	161 543 162	0.265	161 543 172	0.265
25	20	10	150	161 543 163	0.378	161 543 173	0.378
32	25	10	280	161 543 164	0.568	161 543 174	0.568
40	32	10	480	161 543 165	0.961	161 543 175	0.961
50	40	10	620	161 543 166	1.413	161 543 176	1.413
63	50	10	1230	161 543 167	2.736	161 543 177	2.736

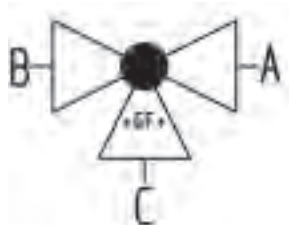
d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
															(inch)
16	50	79	28	8	109	87	73	36	25	42	45	6	81	40	$\frac{3}{8}$
20	50	79	28	8	112	87	73	36	25	42	45	6	81	40	$\frac{1}{2}$
25	58	88	32	8	131	108	86	43	25	50	58	6	94	47	$\frac{3}{4}$
32	68	94	36	8	151	108	99	50	25	50	58	6	107	54	1
40	84	113	45	9	181	141	120	60	45	66	75	8	130	65	1 $\frac{1}{4}$
50	97	119	51	9	205	141	137	69	45	66	75	8	143	72	1 $\frac{1}{2}$
63	124	141	65	9	261	165	179	89	45	78	87	8	185	92	2



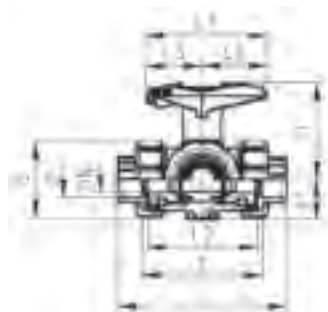
3-Way ball valve type 543 PVC-U
Horizontal/T-port
With lockable handle
With solvent cement sockets metric

Model:

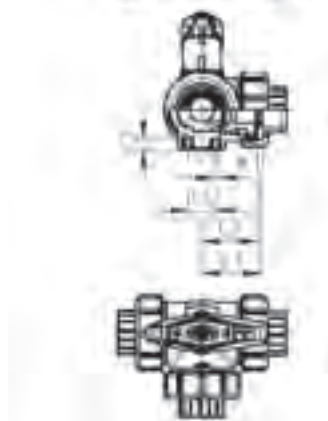
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-B-C opened, see flow scheme

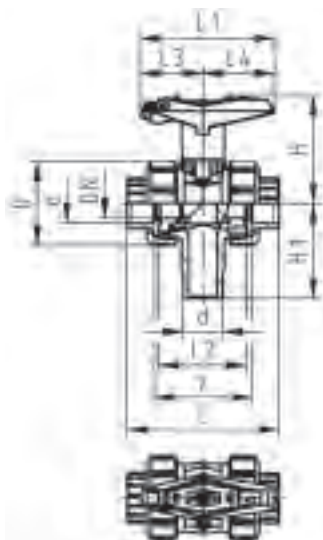


d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	140	161 543 361	0.235	161 543 371	0.258
20	15	10	200	161 543 362	0.229	161 543 372	0.264
25	20	10	470	161 543 363	0.360	161 543 373	0.376
32	25	10	793	161 543 364	0.561	161 543 374	0.561
40	32	10	1290	161 543 365	0.950	161 543 375	0.950
50	40	10	1910	161 543 366	1.392	161 543 376	1.392
63	50	10	3100	161 543 367	2.691	161 543 377	2.691



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	z1 (mm)	closest inch (inch)
16	50	79	28	8	109	87	73	36	25	42	45	6	81	40	3/8
20	50	79	28	8	112	87	73	36	25	42	45	6	81	40	1/2
25	58	88	32	8	131	108	86	43	25	50	58	6	94	47	3/4
32	68	94	36	8	151	108	99	50	25	50	58	6	107	54	1
40	84	113	45	9	181	141	120	60	45	66	75	8	130	65	1 1/4
50	97	119	51	9	205	141	137	69	45	66	75	8	143	72	1 1/2
63	124	141	65	9	261	165	179	89	45	78	87	8	185	92	2





d	D	H	H1	L	L1	L2	L3	L4	z	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
16	50	79	62	92	87	56	42	45	64	¾
20	50	79	62	95	87	56	42	45	64	½
25	58	88	72	111	108	66	50	58	74	¾
32	68	94	77	123	108	71	50	58	79	1
40	84	113	87	146	140	85	66	74	95	1 ¼
50	97	119	97	157	140	89	66	74	95	1 ½
63	124	141	112	183	165	101	78	87	107	2

Metering ball valves type 523



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

Model:

- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

- Other materials on demand

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
16	10	10	11	161 523 401	0.170	161 523 411	0.170
20	15	10	20	161 523 402	0.169	161 523 412	0.170

d	D	H	H1	L	L1	L2	L4	L5	L6	z	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
16	50	68	27	92	77	56	25	32	45	64	3/8
20	50	68	27	95	77	56	25	32	45	64	1/2



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

Model:

- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

- Other materials on demand

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
16	10	10	11	161 523 441	0.170	161 523 451	0.170
20	15	10	20	161 523 442	0.170	161 523 452	0.170

d	D	H	H1	L	L1	L2	L3	L4	L5	L6	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
16	50	68	27	114	77	56		25	32	45	3/8
20	50	68	27	124	77	56	130	25	32	45	1/2



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

Model:

- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

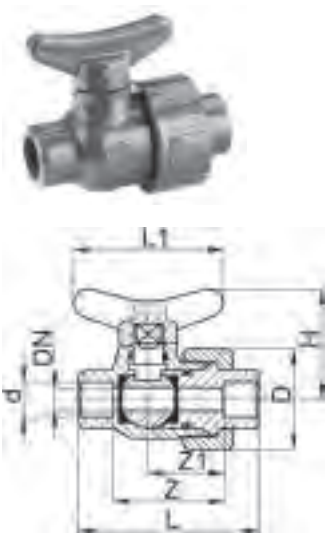
Option:

- Other materials on demand

Rp	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	11	161 523 421	0.170	161 523 431	0.170
1/2	15	10	20	161 523 422	0.170	161 523 432	0.170

Rp	D	H	H1	L	L1	L2	L4	L5	L6	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	50	68	27	95	77	56	25	32	45	69
1/2	50	68	27	100	77	56	25	32	45	67

Laboratory ball valves type 322



Laboratory ball cock type 322 PVC-U
With solvent cement sockets metric

Model:

- Disconnection one end only
- Ball seals PTFE

d	DN	PN	EPDM	Weight	FPM	Weight	D	H	L	L1	z	z1
(mm)	(mm)	(bar)	Code	(kg)	Code	(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
10	6	10	161 322 150	0.043	161 322 199	0.043	34	38	52	45	26	15
12	8	10	161 322 200	0.043	161 322 249	0.050	34	38	60	45	36	25

Diaphragm valves



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

Model:

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

Option:

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

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
16	10	10	125	161 514 001	0.305	161 514 011	0.303	161 514 031	0.306
20	15	10	125	161 514 002	0.398	161 514 012	0.295	161 514 032	0.298
25	20	10	271	161 514 003	0.428	161 514 013	0.423	161 514 033	0.428
32	25	10	481	161 514 004	1.161	161 514 014	0.673	161 514 034	1.181
40	32	10	759	161 514 005	0.958	161 514 015	0.965	161 514 035	0.977
50	40	10	1263	161 514 006	1.625	161 514 016	1.624	161 514 036	1.658
63	50	10	1728	161 514 007	2.501	161 514 017	2.488	161 514 037	2.547

d (mm)	FPM Code	Weight (kg)	PTFE/FPM Code	Weight (kg)
16	161 514 061	0.310	800 047 300	0.420
20	161 514 062	0.302	800 047 301	0.420
25	161 514 063	0.691	800 047 303	0.560
32	161 514 064	0.691	800 047 304	1.210
40	161 514 065	0.982	800 047 306	1.540
50	161 514 066	2.516	800 047 308	2.680
63	161 514 067	2.546	800 047 309	2.581

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
16	65	65	43	73	14	12	170	25	M6	142	7	3/8
20	65	65	43	73	14	12	128	25	M6	96	7	1/2
25	80	65	51	81	18	12	152	25	M6	114	10	3/4
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 1/4
50	117	135	83	148	32	15	222	45	M8	160	19	1 1/2
63	144	135	100	166	39	15	266	45	M8	190	25	2



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

Model:

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

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

d	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
20	15	16	125	800 047 166	0.420	800 047 160	0.420
25	20	16	271	800 047 167	0.560	800 047 161	0.560
32	25	16	481	800 047 168	1.210	800 047 162	1.210
40	32	16	759	800 047 169	1.005	800 047 163	1.540
50	40	16	1263	800 047 170	1.706	800 047 164	2.680
63	50	16	1728	800 047 171	3.630	800 047 165	3.630

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



Diaphragm valve type 514 PVC-U With threaded sockets Rp

Model:

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

Option:

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

Rp	DN	PN	kv-value	NBR	Weight	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)	Code	(kg)
			(l/min)						
½	15	10	125	161 514 402	0.400	161 514 412	0.298	161 514 432	0.410
¾	20	10	271	161 514 403	0.523	161 514 413	0.426	161 514 433	0.534
1	25	10	481	161 514 404	0.678	161 514 414	0.679	161 514 434	0.693
1 ¼	32	10	759	161 514 405	1.429	161 514 415	0.957	161 514 435	1.449
1 ½	40	10	1263	161 514 406	2.528	161 514 416	1.654	161 514 436	2.558
2	50	10	1728	161 514 407	3.449	161 514 417	3.449	161 514 437	3.477



Rp (inch)	FPM Code	Weight (kg)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
½	161 514 462	0.400	65	65	43	73	14	12	128	25	M6	96	7
¾	161 514 463	0.523	80	65	51	81	18	12	152	25	M6	114	10
1	161 514 464	1.163	88	87	58	107	22	12	166	25	M6	122	13
1 ¼	161 514 465	1.429	101	87	72	115	26	15	192	45	M8	140	15
1 ½	161 514 466	2.528	117	135	83	148	32	15	222	45	M8	160	19
2	161 514 467	3.449	144	135	100	166	39	15	266	45	M8	190	25



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

Model:

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

Option:

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



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	10	125	161 515 002	0.335	161 515 012	0.240	161 515 032	0.238
25	20	10	271	161 515 003	0.445	161 515 013	0.445	161 515 033	0.456
32	25	10	481	161 515 004	0.565	161 515 014	0.568	161 515 034	0.575
40	32	10	759	161 515 005	1.237	161 515 015	1.237	161 515 035	1.257
50	40	10	1263	161 515 006	1.363	161 515 016	1.364	161 515 036	2.292
63	50	10	1728	161 515 007	2.963	161 515 017	2.248	161 515 037	2.097

d (mm)	FPM Code	Weight (kg)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)	closest inch (inch)
20	161 515 062	0.243	65	65	73	14	12	124	25	M6	7	½
25	161 515 063	0.445	80	65	81	18	12	144	25	M6	10	¾
32	161 515 064	1.032	88	87	107	22	12	154	25	M6	13	1
40	161 515 065	0.785	101	87	115	26	15	174	45	M8	15	1 ¼
50	161 515 066	2.262	117	135	148	32	15	194	45	M8	19	1 ½
63	161 515 067	2.963	144	135	166	39	15	224	45	M8	25	2



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

Model:

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

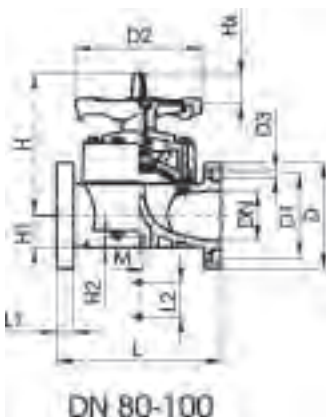
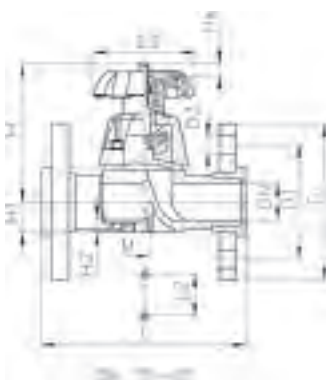
Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	10	125	161 517 002	0.493	161 517 012	0.395	161 517 032	0.503
25	20	10	271	161 517 003	0.661	161 517 013	0.558	161 517 033	0.672
32	25	10	481	161 517 004	1.344	161 517 014	0.887	161 517 034	1.364
40	32	10	759	161 517 005	1.352	161 517 015	1.230	161 517 035	1.247
50	40	10	1263	161 517 006	2.868	161 517 016	1.962	161 517 036	1.992
63	50	10	1728	161 517 007	3.789	161 517 017	2.893	161 517 037	2.939

d (mm)	FPM Code	Weight (kg)
20	161 517 062	0.493
25	161 517 063	0.661
32	161 517 064	0.895
40	161 517 065	1.352
50	161 517 066	2.868
63	161 517 067	2.943

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



DN 80-100

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

Model:

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

Option:

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

	d	Size	DN	PN	kv-value
	(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)
					(l/min)
	75	2 ½	65	10	992
*	90	3	80	10	1700
	110	4	100	10	2700
*	160	6	150	7	6033

d (mm)	NBR Code	EPDM Code	CSM Code	PTFE with EPDM supp. diaphragm Code	FPM Code	Weight (kg)	
75	161 317 508	161 317 523	161 317 553	161 317 538	161 317 568	5.090	
*	90	161 317 009	161 317 024	161 317 054	161 317 039	161 317 069	9.700
	110	161 317 010	161 317 025	161 317 055	161 317 040	161 317 070	13.600
*	160	161 317 012	161 317 027	161 317 057	161 317 042	161 317 072	27.000

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

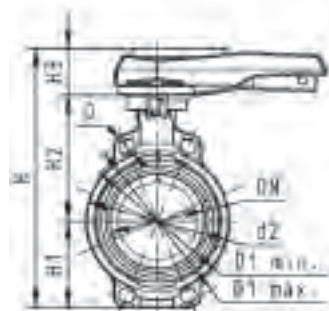
Butterfly valves type 567



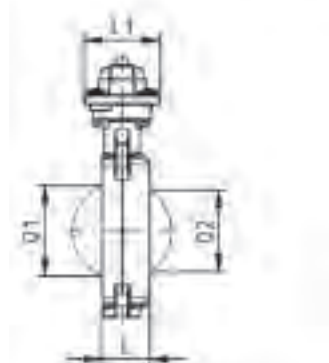
Butterfly valve type 567 PVC-U Hand lever with ratchet settings

Model:

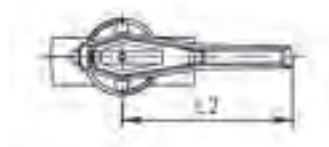
- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

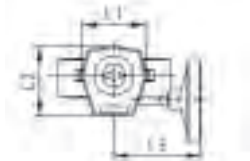
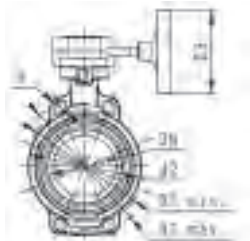


d	Size	DN	PN	kv-value	EPDM	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	Code	(kg)
				(l/min)			
63	2	50	10	1470	161 567 002	161 567 022	1.259
75	2 ½	65	10	2200	161 567 003	161 567 023	1.799
90	3	80	10	3000	161 567 004	161 567 024	1.534
110	4	100	10	6500	161 567 005	161 567 025	2.235
140	5	125	10	11500	161 567 006	161 567 026	2.799
160	6	150	10	16600	161 567 007	161 567 027	3.791
225	8	200	10	39600	161 567 008	161 567 028	6.570
280	10	250	10	55200	161 567 009	161 567 029	12.998
315	12	300	10	80000	161 567 010	161 567 030	19.139



d	D	D1	D1	d2	H	H1	H2	H3	L	L1	L2	Q1	Q2
(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
		(mm)	(mm)										
63	19	120.0	125.0	104	264	77	134	54	45	106	205	40	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	54	35
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50
110	19	175.0	190.5	161	325	104	167	55	56	106	255	88	74
140	23	210.0	215.9	187	352	117	181	55	64	106	255	113	97
160	24	241.3	241.3	215	373	130	189	55	72	106	255	139	123
225	23	290.0	295.0	267	435	158	210	67	73	140	408	178	169
280	25	353.0	362.0	329	554	205	264	85	113	149	408	210	207
315	25	400.0	432.0	379	598	228	285	85	113	149	408	256	253





Butterfly valve type 567 PVC-U Reduction gear with handwheel

Model:

- Up to DN 300: Overall length according to EN558 (DN 50-200: line 25, DN250, 300 line 16), ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
63	2	50	10	1470	161 567 042	3.078	161 567 062	3.082
75	2 ½	65	10	2200	161 567 043	3.181	161 567 063	3.186
90	3	80	10	3000	161 567 044	3.346	161 567 064	3.353
110	4	100	10	6500	161 567 045	4.022	161 567 065	3.973
140	5	125	10	11500	161 567 046	4.185	161 567 066	4.544
160	6	150	10	16600	161 567 047	5.174	161 567 067	5.181
225	8	200	10	39600	161 567 048	7.072	161 567 068	8.339
280	10	250	10	51000	161 567 049	14.741	161 567 069	15.115
315	12	300	10	73000	161 567 050	19.254	161 567 070	35.000
355	14	350	6	90000	161 567 051	50.000	161 567 071	55.000
400	16	400	6	115000	161 567 052	60.000	161 567 072	60.000

d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	D3 (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Q1 (mm)	Q2 (mm)
63	104	19	120	125	160	77	134	59	45	80	114	155	40	
75	115	19	140	145	150	83	140	59	46	80	114	155	54	35
90	131	19	150	160	150	89	146	59	49	80	114	155	67	50
110	160	19	175	191	150	104	167	59	56	80	114	155	88	74
140	187	23	210	216	150	117	181	59	64	80	114	155	113	97
160	215	24	241	241	160	130	189	59	72	80	114	155	139	123
225	267	23	290	295	160	158	210	59	73	80	114	155	178	169
280	329	25	353	362	200	205	264	67	113	100	131	170	210	207
315	379	25	400	432	200	228	285	67	113	100	131	170	256	253
355	535	29	445	477	200	268	410	69	129	180	168	218	325	305
400	595	29	510	540	200	300	435	69	169	180	195	218	353	350

Lugstyle butterfly valve type 578



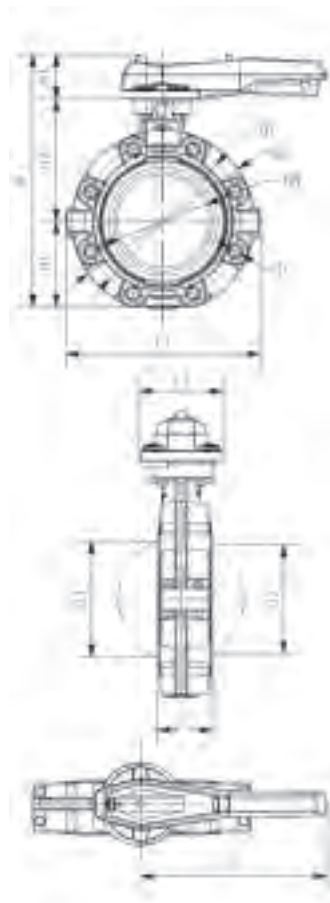
Lugstyle butterfly valve type 578 PVC-U
Hand lever with ratchet settings

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	161 578 002	1.800	161 578 022	1.800
75	2 ½	65	10	2200	161 578 003	1.895	161 578 023	1.895
90	3	80	10	3000	161 578 004	2.251	161 578 024	2.251
110	4	100	10	6500	161 578 005	3.146	161 578 025	3.146
140	5	125	10	11500	161 578 006	4.660	161 578 026	4.660
160	6	150	10	16600	161 578 007	6.430	161 578 027	6.430
225	8	200	10	39600	161 578 008	8.625	161 578 028	8.625
280	10	250	10	55200	161 578 009	19.528	161 578 029	19.528
315	12	300	10	80000	161 578 010	26.106	161 578 030	26.106

d	d2	D	D1	H	H1	H2	H3	L	L1	L2	L3	Q1	Q2
(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	160	M16	125	265	77	134	54	45	106	205	165	40	
75	180	M16	145	277	83	140	54	46	106	205	182	54	35
90	195	M16	160	289	89	146	54	49	106	205	210	67	50
110	226	M16	180	328	106	167	55	56	106	255	240	88	74
140	258	M16	210	357	121	181	55	64	106	255	272	113	97
160	284	M20	240	377	133	189	55	72	106	255	300	139	123
225	341	M20	295	436	159	210	67	73	140	408	360	178	169
280	412	M20	350	536	205	264	67	113	140	408	440	210	207
315	482	M20	400	586	234	285	67	113	140	408	510	256	253



Lugstyle butterfly valve type 578 PVC-U Reduction gear with handwheel

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)

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
63	2	50	10	1470	161 578 042	3.522	161 578 062	3.522
75	2 ½	65	10	2200	161 578 043	3.672	161 578 063	3.672
90	3	80	10	3000	161 578 044	3.929	161 578 064	3.929
110	4	100	10	6500	161 578 045	4.834	161 578 065	4.834
140	5	125	10	11500	161 578 046	6.348	161 578 066	6.348
160	6	150	10	16600	161 578 047	8.109	161 578 067	8.109
225	8	200	10	39600	161 578 048	9.353	161 578 068	9.353
280	10	250	10	55200	161 578 049	21.210	161 578 069	21.210
315	12	300	10	80000	161 578 050	27.746	161 578 070	27.746

d (mm)	d2 (mm)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	Q1 (mm)	Q2 (mm)
63	160	M16	125	160	261	77	134	59	45	80	114	165	155	40	
75	180	M16	145	150	273	83	140	59	46	80	114	182	155	54	35
90	195	M16	160	150	285	89	146	59	49	80	114	210	155	67	50
110	226	M16	180	150	323	106	167	59	56	80	114	240	155	88	74
140	258	M16	210	150	352	121	181	59	64	80	114	272	155	113	97
160	284	M20	240	160	372	133	189	59	72	80	114	300	155	139	123
225	341	M20	295	160	419	159	210	59	73	80	114	360	155	178	169
280	412	M20	350	200	524	205	264	67	113	100	131	440	170	210	207
315	482	M20	400	200	574	234	285	67	113	100	131	510	170	256	253

Process control valves



Ventilating and bleed valve
Type 591 PVC-U
With solvent cement sockets metric

- Model:**
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
 - Floater made of PP-H
 - Designed for easy installation and removal
 - Compact installation length

d	DN	PN	EPDM	FPM	D	L	t	closest
(mm)	(mm)	(bar)	Code	Code	(mm)	(mm)	(mm)	inch
								(inch)
16	10	16	161 591 001	161 591 011	50	118	14	3⁄8
20	15	16	161 591 002	161 591 012	50	124	16	1⁄2
25	20	16	161 591 003	161 591 013	58	142	19	3⁄4
32	25	16	161 591 004	161 591 014	68	157	22	1
40	32	16	161 591 005	161 591 015	84	179	26	1 1⁄4
50	40	16	161 591 006	161 591 016	97	197	31	1 1⁄2
63	50	16	161 591 007	161 591 017	124	229	38	2
75	65	16	161 591 008	161 591 018	166	258	45	2 1⁄2
90	80	16	161 591 009	161 591 019	200	277	52	3
110	100	16	161 591 010	161 591 020	238	320	64	4



Ventilating and bleed valve
Type 591 PVC-U
With solvent cement spigots metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FPM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	161 591 041	161 591 051	50	129	14	$\frac{3}{8}$
20	15	16	161 591 042	161 591 052	50	139	16	$\frac{1}{2}$
25	20	16	161 591 043	161 591 053	58	160	19	$\frac{3}{4}$
32	25	16	161 591 044	161 591 054	68	172	22	1
40	32	16	161 591 045	161 591 055	84	193	26	1 $\frac{1}{4}$
50	40	16	161 591 046	161 591 056	97	215	31	1 $\frac{1}{2}$
63	50	16	161 591 047	161 591 057	124	249	38	2
75	65	16	161 591 048	161 591 058	166	284	44	2 $\frac{1}{2}$
90	80	16	161 591 049	161 591 059	200	300	52	3
110	100	16	161 591 050	161 591 060	238	340	61	4



Ventilating valve type 595 PVC-U
With solvent cement sockets metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FPM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	161 595 001	161 595 011	50	118	14	$\frac{3}{8}$
20	15	16	161 595 002	161 595 012	50	124	16	$\frac{1}{2}$
25	20	16	161 595 003	161 595 013	58	142	19	$\frac{3}{4}$
32	25	16	161 595 004	161 595 014	68	157	22	1
40	32	16	161 595 005	161 595 015	84	179	26	1 $\frac{1}{4}$
50	40	16	161 595 006	161 595 016	97	197	31	1 $\frac{1}{2}$
63	50	16	161 595 007	161 595 017	124	229	38	2
75	65	16	161 595 008	161 595 018	166	258	45	2 $\frac{1}{2}$
90	80	16	161 595 009	161 595 019	200	277	52	3
110	100	16	161 595 010	161 595 020	238	320	64	4



Ventilating valve type 595 PVC-U With solvent cement spigots metric

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d (mm)	DN (mm)	PN (bar)	EPDM Code	FPM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	161 595 041	161 595 051	50	129	14	$\frac{3}{8}$
20	15	16	161 595 042	161 595 052	50	139	16	$\frac{1}{2}$
25	20	16	161 595 043	161 595 053	58	160	19	$\frac{3}{4}$
32	25	16	161 595 044	161 595 054	68	172	22	1
40	32	16	161 595 045	161 595 055	84	193	26	1 $\frac{1}{4}$
50	40	16	161 595 046	161 595 056	97	215	31	1 $\frac{1}{2}$
63	50	16	161 595 047	161 595 057	124	249	38	2
75	65	16	161 595 048	161 595 058	166	284	44	2 $\frac{1}{2}$
90	80	16	161 595 049	161 595 059	200	300	52	3
110	100	16	161 595 050	161 595 060	238	340	61	4



Gauge guard type Z700 PVC-U With manometer

d (mm)	PTFE Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	closest inch (inch)	Pressure range (bar)	G_R (inch)
25	199 041 000	0.271	72	63	129	71	15	$\frac{3}{4}$	0 - 10	$\frac{1}{4}$
25	199 041 292	0.267	72	63	129	71	15	$\frac{3}{4}$	0 - 6	$\frac{1}{4}$
32	199 041 001	0.633	100	100	210	90	22	1	0 - 10	$\frac{1}{2}$
32	199 041 293	0.657	100	100	210	90	22	1	0 - 6	$\frac{1}{2}$



Gauge guard type Z701 PVC-U Without manometer

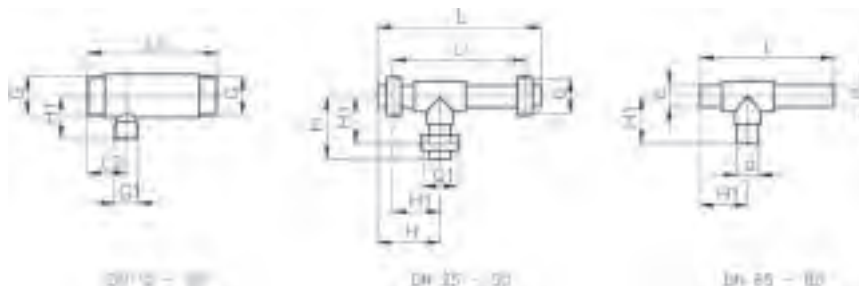
d (mm)	PTFE Code	Weight (kg)	D (mm)	H1 (mm)	H2 (mm)	closest inch (inch)	G_R (inch)
25	199 041 006	0.144	72	71	15	¾	¾
32	199 041 007	0.261	100	90	22	1	½



Water jet suction pump type P20 PVC-U

- DN 10-20: BSP parallel female thread
- DN 25-50: Solvent cement socket metric
- DN 65-80: Solvent cement spigot metric

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)	G1 (inch)	G (inch)
16	10	10	199 041 120	0.138		35		110	40	¾	¾	R 3/4
20	15	10	199 041 121	0.228		35		125	40	½	¾	R 1
25	20	10	199 041 122	0.363		45		145	45	¾	¾	R 1 1/4
32	25	10	199 041 123	0.468	96	71	245	195		1	1 ½	R 1 1/2
40	32	10	199 041 124	0.841	116	87	297	239		1 ¼	2	R 2
50	40	10	199 041 125	1.360	139	105	369	301		1 ½	2 ¼	R 2 1/4
63	50	10	199 041 126	2.440	169	128	433	351		2	2 ¾	R 2 3/4
75	65	10	199 041 127	2.313		115	388			2 ½		
90	80	10	199 041 128	4.090		149	465			3		





Throttle valve type V251 PVC-U
With solvent cement sockets metric

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)	D (mm)	H (mm)	H1 (mm)	L (mm)	closest inch (inch)
16	10	10	199 041 203	0.048	199 041 210	0.048	29	57	45	47	$\frac{3}{8}$
20	15	10	199 041 204	0.077	199 041 211	0.081	35	66	51	55	$\frac{1}{2}$
25	20	10	199 041 205	0.123	199 041 212	0.122	40	80	63	66	$\frac{3}{4}$
32	25	10	199 041 206	0.217	199 041 213	0.219	47	96	75	80	1
40	32	10	199 041 207	0.352	199 041 214	0.329	56	111	86	100	1 $\frac{1}{4}$
50	40	10	199 041 208	0.662	199 041 215	0.662	70	133	101	120	1 $\frac{1}{2}$
63	50	10	199 041 209	1.213	199 041 216	1.213	88	158	118	146	2



Float valve type V140 PVC-U
With solvent cement spigots metric

- Lever 1:10

d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	6	199 041 147	0.300	199 041 156	0.300
20	15	6	199 041 148	0.300	199 041 157	0.300
25	20	6	199 041 149	2.469	199 041 158	0.300
32	25	6	199 041 150	0.400	199 041 159	0.400
40	32	6	199 041 151	4.500	199 041 160	4.000
50	40	6	199 041 152	6.200	199 041 161	6.200
63	50	6	199 041 153	8.100	199 041 162	8.100
75	65	6	199 041 154	10.400	199 041 163	10.400
90	80	6	199 041 155	11.400	199 041 164	11.400

d (mm)	D (mm)	D1 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	L (mm)	closest inch (inch)
16	45	125	270	120	80	14	130	380	$\frac{3}{8}$
20	45	125	270	120	80	16	130	380	$\frac{1}{2}$
25	65	200	340	160	110	19	170	530	$\frac{3}{4}$
32	65	200	345	165	110	22	170	530	1
40	90	225	440	210	130	26	210	720	1 $\frac{1}{4}$
50	90	225	445	215	130	31	210	720	1 $\frac{1}{2}$
63	130	315	595	255	160	38	290	975	2
75	130	315	600	260	160	44	290	975	2 $\frac{1}{2}$
90	150	355	640	290	180	51	340	1140	3

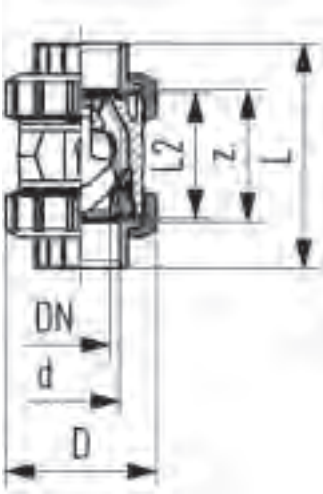
Cone check valves



Check valve type 561 PVC-U
With transparent housing
With solvent cement sockets metric

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Sealing at a minimum water column of 2 m



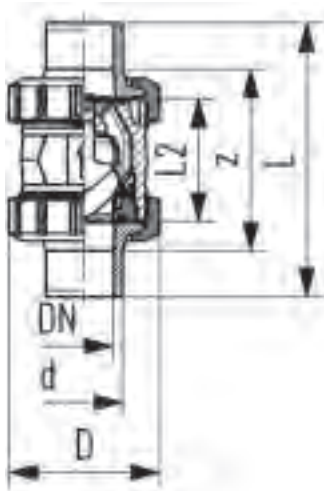
d	DN	PN	kv-value	EPDM	Weight	D	L	L2	z	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)							(inch)
32	25	16	460	192 561 004	0.290	68	123	71	79	1
63	50	16	1670	192 561 007	1.330	124	183	101	107	2



Check valve type 561 PVC-U
With solvent cement spigots metric

Model:

- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	16	190	161 561 041	0.130	161 561 051	0.130
20	15	16	180	161 561 042	0.130	161 561 052	0.130
25	20	16	380	161 561 043	0.188	161 561 053	0.290
32	25	16	460	161 561 044	0.296	161 561 054	0.320
40	32	16	850	161 561 045	0.530	161 561 055	0.530
50	40	16	1080	161 561 046	0.762	161 561 056	0.810
63	50	16	1670	161 561 047	1.419	161 561 057	1.450
75	65	16	2950	161 561 048	3.370	161 561 058	3.380
90	80	16	3600	161 561 049	5.320	161 561 059	5.340
110	100	16	4150	161 561 050	8.500	161 561 060	8.540

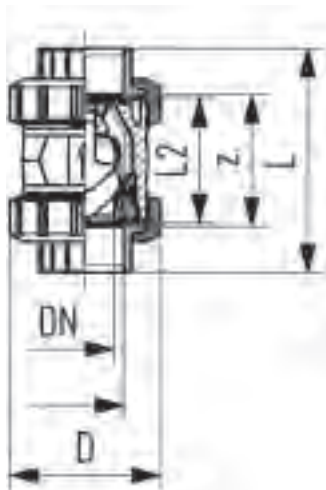
d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	114	56	$\frac{3}{8}$
20	50	124	56	$\frac{1}{2}$
25	58	144	65	$\frac{3}{4}$
32	68	154	71	1
40	84	174	85	$1 \frac{1}{4}$
50	97	194	89	$1 \frac{1}{2}$
63	124	224	101	2
75	166	284	136	$2 \frac{1}{2}$
90	200	300	141	3
110	238	340	164	4



Check valve type 561 PVC-U
With threaded sockets Rp

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



Rp	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	190	161 561 021	0.130	161 561 031	0.130
1/2	15	10	180	161 561 022	0.130	161 561 032	0.130
3/4	20	10	380	161 561 023	0.260	161 561 033	0.280
1	25	10	460	161 561 024	0.300	161 561 034	0.300
1 1/4	32	10	850	161 561 025	0.510	161 561 035	0.520
1 1/2	40	10	1080	161 561 026	0.780	161 561 036	0.790
2	50	10	1670	161 561 027	1.390	161 561 037	1.400
2 1/2	65	10	2950	161 561 028	3.800	161 561 038	3.820
3	80	10	3600	161 561 029	5.160	161 561 039	5.180
4	100	10	4150	161 561 030	8.140	161 561 040	8.180

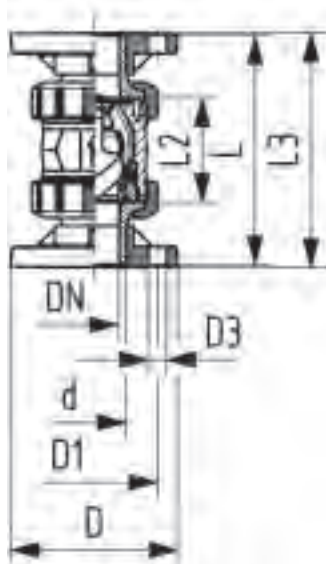
Rp	D	L	L2	z
(inch)	(mm)	(mm)	(mm)	(mm)
3/8	50	95	56	69
1/2	50	100	56	67
3/4	58	114	65	78
1	68	127	71	85
1 1/4	84	146	85	100
1 1/2	97	152	89	106
2	124	177	101	121
2 1/2	166	233	136	144
3	200	254	141	151
4	238	301	164	174



Check valve type 561 PVC-U With fixed flanges metric

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Sealing at a minimum water column of 2 m



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
20	15	16	180	161 561 082	0.330	161 561 092	0.330
25	20	16	380	161 561 083	0.520	161 561 093	0.540
32	25	16	460	161 561 084	0.670	161 561 094	0.670
40	32	16	850	161 561 085	1.100	161 561 095	1.100
50	40	16	1080	161 561 086	1.490	161 561 096	1.490
63	50	16	1670	161 561 087	2.430	161 561 097	2.440

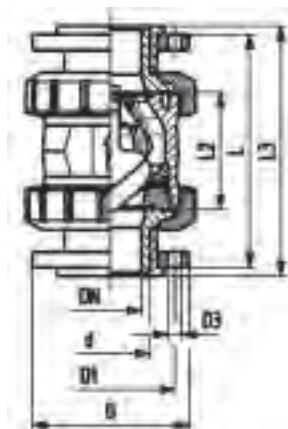
d (mm)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	95	65	14	124	56	130	½
25	105	75	14	144	65	150	¾
32	115	85	14	154	71	160	1
40	140	100	18	174	85	180	1 ¼
50	150	110	18	194	89	200	1 ½
63	165	125	18	224	101	230	2



Check valve type 561 PVC-U With backing flanges PVC-U metric

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Sealing at a minimum water column of 2 m



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
75	65	16	2950	161 561 408	4.440	161 561 418	4.450
90	80	16	3600	161 561 409	6.740	161 561 419	6.770
110	100	16	4150	161 561 410	10.280	161 561 420	10.320

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	149	85	284	270	136	70	64	206	M8	1 ¼
90	200	161	105	300	270	141	70	64	206	M8	1 ½
110	238	178	123	340	320	164	120	64	256	M12	2



Check valve type 561 PVC-U **With backing flanges PP-st metric**

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Sealing at a minimum water column of 2 m

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
75	65	10	2950	161 561 428	4.640	161 561 438	4.640
90	80	10	3600	161 561 429	5.810	161 561 439	5.810
110	100	10	4150	161 561 430	8.160	161 561 440	8.160

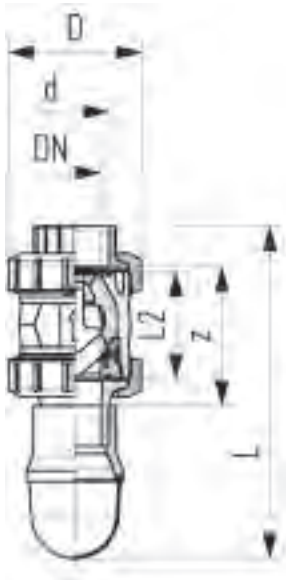
d	D	H	H1	L	L1	L2	L3	L4	L5	L6	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
											(inch)
75	166	149	85	284	270	136	290	70	64	206	1 ¼
90	200	161	105	300	270	141	310	70	64	206	1 ½
110	238	178	123	340	320	164	350	120	64	256	2



Foot valve type 561 PVC-U
With solvent cement sockets metric

Model:

- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Sealing at a minimum water column of 2 m



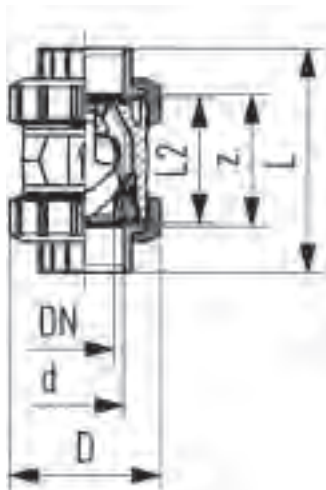
d	DN	PN	kv-value	EPDM	Weight	D	L	L2	z	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)							(inch)
16	10	16	190	161 561 901	0.120	50	173	56	64	$\frac{3}{8}$
20	15	16	180	161 561 902	0.130	50	175	56	64	$\frac{1}{2}$
25	20	16	380	161 561 903	0.250	58	192	65	72	$\frac{3}{4}$
32	25	16	460	161 561 904	0.290	68	204	71	79	1
40	32	16	850	161 561 905	0.510	90	267	85	94	1 $\frac{1}{4}$
50	40	16	1080	161 561 906	0.750	90	282	83	95	1 $\frac{1}{2}$
63	50	16	1670	161 561 907	1.330	90	310	101	107	2



Check valve type 562 PVC-U
With solvent cement sockets metric

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	16	190	161 562 001	0.120	161 562 011	0.120
20	15	16	180	161 562 002	0.130	161 562 012	0.130
25	20	16	380	161 562 003	0.250	161 562 013	0.270
32	25	16	460	161 562 004	0.290	161 562 014	0.290
40	32	16	850	161 562 005	0.510	161 562 015	0.510
50	40	16	1080	161 562 006	0.750	161 562 016	0.750
63	50	16	1670	161 562 007	1.330	161 562 017	1.340
75	65	16	2950	161 562 008	3.160	161 562 018	3.170
90	80	16	3600	161 562 009	5.040	161 562 019	5.060
110	100	16	4150	161 562 010	8.130	161 562 020	8.170

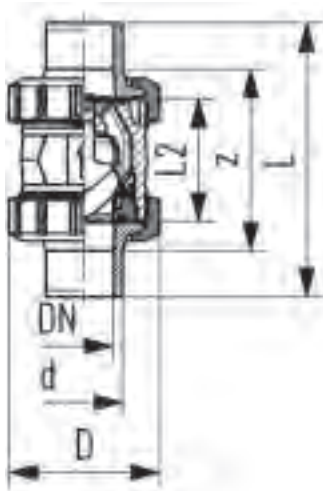
d	D	L	L2	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	inch
					(inch)
16	50	92	56	64	$\frac{3}{8}$
20	50	95	56	64	$\frac{1}{2}$
25	58	110	65	72	$\frac{3}{4}$
32	68	123	71	79	1
40	84	146	85	94	1 $\frac{1}{4}$
50	97	157	89	95	1 $\frac{1}{2}$
63	124	183	101	107	2
75	166	233	136	144	2 $\frac{1}{2}$
90	200	254	141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



Check valve type 562 PVC-U
With solvent cement spigots metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	16	190	161 562 041	0.130	161 562 051	0.130
20	15	16	180	161 562 042	0.130	161 562 052	0.130
25	20	16	380	161 562 043	0.270	161 562 053	0.290
32	25	16	460	161 562 044	0.320	161 562 054	0.320
40	32	16	850	161 562 045	0.530	161 562 055	0.530
50	40	16	1080	161 562 046	0.810	161 562 056	0.810
63	50	16	1670	161 562 047	1.450	161 562 057	1.450
75	65	16	2950	161 562 048	3.370	161 562 058	3.380
90	80	16	3600	161 562 049	5.320	161 562 059	5.340
110	100	16	4150	161 562 050	8.500	161 562 060	8.540

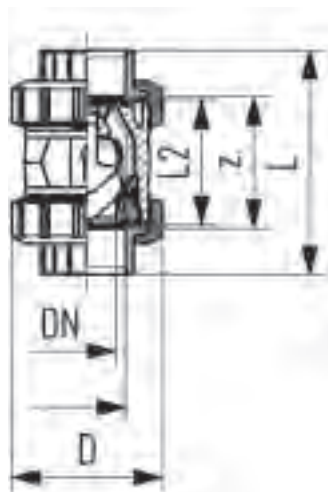
d	D	L	L2	closest
(mm)	(mm)	(mm)	(mm)	inch
				(inch)
16	50	114	56	$\frac{3}{8}$
20	50	124	56	$\frac{1}{2}$
25	58	144	65	$\frac{3}{4}$
32	68	154	71	1
40	84	174	85	1 $\frac{1}{4}$
50	97	194	89	1 $\frac{1}{2}$
63	124	224	101	2
75	166	284	136	2 $\frac{1}{2}$
90	200	300	141	3
110	238	340	164	4



Check valve type 562 PVC-U **With threaded sockets Rp**

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



Rp	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
¾	10	10	190	161 562 021	0.130	161 562 031	0.130
½	15	10	180	161 562 022	0.130	161 562 032	0.130
¾	20	10	380	161 562 023	0.260	161 562 033	0.280
1	25	10	460	161 562 024	0.300	161 562 034	0.300
1 ¼	32	10	850	161 562 025	0.510	161 562 035	0.520
1 ½	40	10	1080	161 562 026	0.780	161 562 036	0.790
2	50	10	1670	161 562 027	1.390	161 562 037	1.400
2 ½	65	10	2950	161 562 028	3.800	161 562 038	3.820
3	80	10	3600	161 562 029	5.160	161 562 039	5.180
4	100	10	4150	161 562 030	8.140	161 562 040	8.180

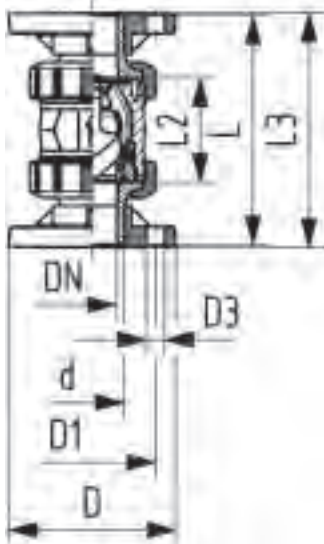
Rp	D	L	L2	z
(inch)	(mm)	(mm)	(mm)	(mm)
¾	50	95	56	69
½	50	100	56	67
¾	58	114	65	78
1	68	127	71	85
1 ¼	84	146	85	100
1 ½	97	152	89	106
2	124	177	101	121
2 ½	166	233	136	144
3	200	254	141	151
4	238	301	164	174



Check valve type 562 PVC-U With fixed flanges metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
20	15	16	180	161 562 082	0.330	161 562 092	0.330
25	20	16	380	161 562 083	0.520	161 562 093	0.540
32	25	16	460	161 562 084	0.670	161 562 094	0.670
40	32	16	850	161 562 085	1.100	161 562 095	1.100
50	40	16	1080	161 562 086	1.490	161 562 096	1.490
63	50	16	1670	161 562 087	2.430	161 562 097	2.440

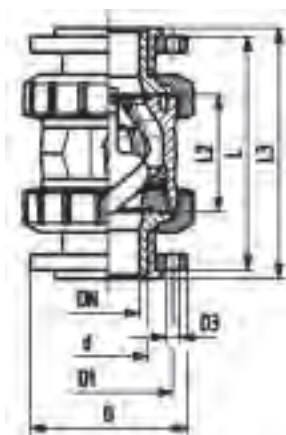
d (mm)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)	closest inch (inch)
20	95	65	14	124	56	130	½
25	105	75	14	144	65	150	¾
32	115	85	14	154	71	160	1
40	140	100	18	174	85	180	1 ¼
50	150	110	18	194	89	200	1 ½
63	165	125	18	224	101	230	2



Check valve type 562 PVC-U With backing flanges PVC-U metric

Model:

- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
75	65	16	2950	161 562 408	4.440	161 562 418	4.450
90	80	16	3600	161 562 409	6.740	161 562 419	6.770
110	100	16	4150	161 562 410	10.280	161 562 420	10.320

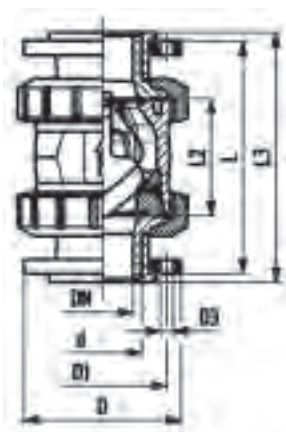
d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	closest inch (inch)
75	166	149	85	284	270	136	70	64	206	M8	1 ¼
90	200	161	105	300	270	141	70	64	206	M8	1 ½
110	238	178	123	340	320	164	120	64	256	M12	2



Check valve type 562 PVC-U **With backing flanges PP-st metric**

Model:

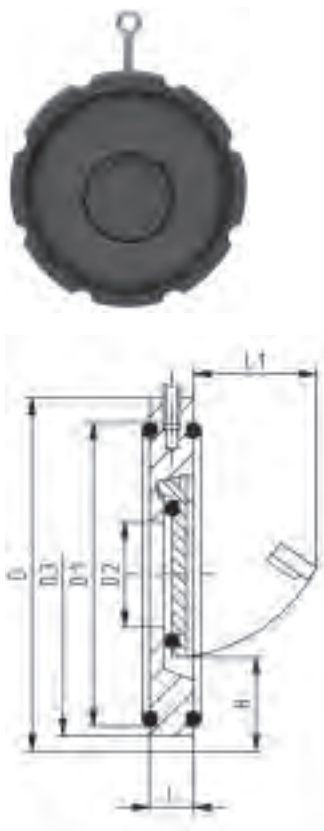
- For horizontal or vertical installation
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
75	65	10	2950	161 562 428	6.220	161 562 438	6.230
90	80	10	3600	161 562 429	8.330	161 562 439	8.360
110	100	10	4150	161 562 430	12.300	161 562 440	12.340

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	closest inch (inch)
75	166	149	85	284	270	136	290	70	64	206	1 ¼
90	200	161	105	300	270	141	310	70	64	206	1 ½
110	238	178	123	340	320	164	350	120	64	256	2

Wafer check valves



Wafer check valve type 369 PVC-U Without spring

Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- Installation with ANSI flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)

d	Size	DN	PN	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
40	1 1/4	32	10	161 369 002	0.110	161 369 022	0.108
50	1 1/2	40	10	161 369 003	0.174	161 369 023	0.202
63	2	50	10	161 369 004	0.273	161 369 024	0.277
75	2 1/2	65	10	161 369 005	0.352	161 369 025	0.386
90	3	80	10	161 369 006	0.560	161 369 026	0.591
110	4	100	10	161 369 007	0.651	161 369 027	0.667
140	5	125	10	161 369 009	0.791	161 369 029	0.856
160	6	150	6	161 369 010	1.153	161 369 030	1.207
225	8	200	6	161 369 011	2.215	161 369 031	2.306
280	10	250	6	161 369 012	3.850	161 369 032	3.915
315	12	300	6	161 369 013	7.059	161 369 033	5.300

d	D	D1	D2	D3	H	L	L1	Opening pressure vertical	Opening pressure horizontal	Minimum water column for sealing
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mbar)	(mbar)	(m)
40	85	59	18	85	25	15	22	10	1	2
50	105	74	22	95	27	16	27	10	1	2
63	124	90	32	109	29	18	40	10	1	2
75	137	110	40	129	31	20	55	10	1	2
90	175	130	54	144	32	20	67	10	1	2
110	175	150	70	164	31	23	67	10	1	2
140	195	178	92	195	35	23	94	10	1	2
160	222	192	105	220	41	26	100	10	1	2
225	279	256	154	275	38	35	152	18	1	2
280	340	306	192	330	41	40	180	18	1	2
315	410	342	227	380	41	45	215	18	1	2



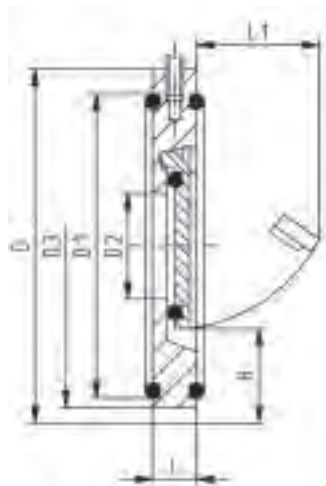
Wafer check valve type 369 PVC-U **With Hastelloy C spring**

Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

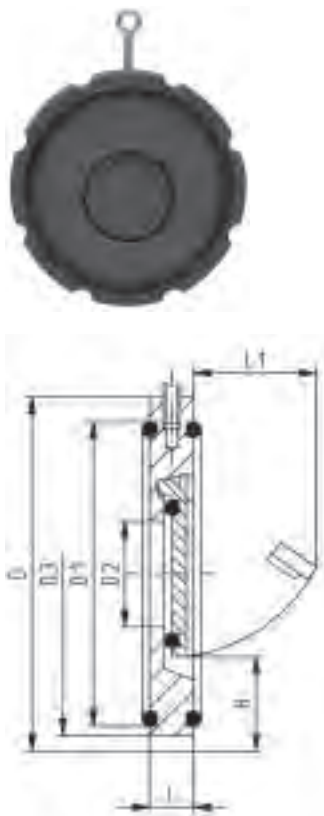
Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- Installation with ANSI flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63



d	Size	DN	PN	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
40	1 1/4	32	10	161 369 082	0.130	161 369 102	0.130
50	1 1/2	40	10	161 369 083	0.174	161 369 103	0.160
63	2	50	10	161 369 084	0.250	161 369 104	0.277
75	2 1/2	65	10	161 369 085	0.320	161 369 105	0.320
90	3	80	10	161 369 086	0.390	161 369 106	0.390
110	4	100	10	161 369 087	0.654	161 369 107	0.550
140	5	125	10	161 369 089	0.750	161 369 109	0.750
160	6	150	6	161 369 090	1.164	161 369 110	1.100
225	8	200	6	161 369 091	2.100	161 369 111	2.100
280	10	250	6	161 369 092	3.500	161 369 112	3.500
315	12	300	6	161 369 093	5.300	161 369 113	5.300

d	D	D1	D2	D3	H	L	L1	Opening pressure vertical	Opening pressure horizontal	Minimum water column for sealing
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mbar)	(mbar)	(m)
40	85	59	18	85	25	15	22	30	20	2
50	105	74	22	95	27	16	27	30	20	2
63	124	90	32	109	29	18	40	30	20	2
75	137	110	40	129	31	20	55	30	20	2
90	175	125	54	144	32	20	67	30	20	2
110	175	150	70	164	31	23	67	30	20	2
140	195	178	92	195	35	23	94	30	20	2
160	222	192	105	220	41	26	100	30	20	2
225	279	256	154	275	38	35	152	38	20	2
280	340	306	192	330	41	40	180	38	20	2
315	410	342	227	380	41	45	215	38	20	2



Wafer check valve type 369 PVC-U
With V4A spring (stainless steel 316)

Model:

- Supporting eyelets for simple fitting
- Suitable for vertical and horizontal mounting

Installation instruction:

- Installation between ISO/DIN (all dimensions) and ANSI flange adaptors (all except DN32 and DN125)
- Installation with ANSI flange adaptor: for wafer check valves DN40 to DN80 you have to use ANSI flange adaptors with the next bigger dimension (example DN40 wafer check valve between DN50 ANSI flange adaptor)
- Centering by body diameter (ISO/DIN by D3, ANSI by D)
- Sealing with special flange gasket (except DN32, o-ring)
- A stabilizing zone of at least 5 times nominal diameter (DN) should be provided before and after the wafer check valve (10 times DN is recommended)
- No direct installation on pump flange or following bend allowed
- The using of PVC-U pipe PN16 is only possible up to d63

d	Size	DN	PN	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	Code	(kg)	Code	(kg)
40	1 1/4	32	10	161 369 042	0.130	161 369 062	0.107
50	1 1/2	40	10	161 369 043	0.160	161 369 063	0.206
63	2	50	10	161 369 044	0.273	161 369 064	0.250
75	2 1/2	65	10	161 369 045	0.357	161 369 065	0.320
90	3	80	10	161 369 046	0.561	161 369 066	0.390
110	4	100	10	161 369 047	0.651	161 369 067	0.684
140	5	125	10	161 369 049	0.791	161 369 069	0.750
160	6	150	6	161 369 050	1.171	161 369 070	1.100
225	8	200	6	161 369 051	2.252	161 369 071	2.100
280	10	250	6	161 369 052	3.790	161 369 072	3.500
315	12	300	6	161 369 053	6.274	161 369 073	5.300

d	D	D1	D2	D3	H	L	L1	Opening pressure vertical	Opening pressure horizontal	Minimum water column for sealing
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mbar)	(mbar)	(m)
40	85	59	18	85	25	15	22	30	20	2
50	105	74	22	95	27	16	27	30	20	2
63	124	90	32	109	29	18	40	30	20	2
75	137	110	40	129	31	20	55	30	20	2
90	175	125	54	144	32	20	67	30	20	2
110	175	150	70	164	31	23	67	30	20	2
140	195	178	92	195	35	23	94	30	20	2
160	222	192	105	220	41	26	100	30	20	2
225	279	256	154	275	38	35	152	38	20	2
280	340	306	192	330	41	40	180	38	20	2
315	410	342	227	380	41	45	215	38	20	2

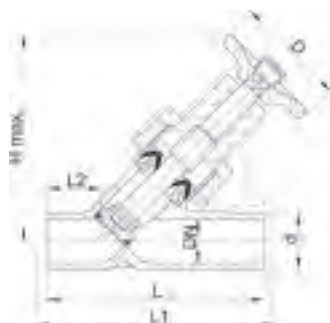
Angle seat valves



Angle seat valve type 300 PVC-U
With solvent cement spigots metric

Model:

- Overall length EN 558



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	PE Code	Weight (kg)	PTFE Code	Weight (kg)
16	10	10	41	161 300 250	0.125	161 300 299	0.128
20	15	10	95	161 300 300	0.164	161 300 349	0.168
25	20	10	180	161 300 350	0.223	161 300 399	0.255
32	25	10	327	161 300 400	0.352	161 300 449	0.389
40	32	10	484	161 300 450	0.534	161 300 499	0.590
50	40	10	725	161 300 500	0.970	161 300 549	1.000
63	50	10	1130	161 300 550	1.510	161 300 599	1.540
75	65	10	1700	161 300 600	2.664	161 300 649	2.713
90	80	10	2500	161 300 650	3.370	161 300 699	4.097

d (mm)	D (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)	H max. (mm)
16	50	114	120	24	3/8	105
20	63	124	130	28	1/2	126
25	63	144	150	37	3/4	140
32	80	154	160	37	1	166
40	80	174	180	44	1 1/4	191
50	100	194	200	48	1 1/2	233
63	100	224	230	60	2	264
75	160	284	290	74	2 1/2	335
90	200	300	310	85	3	390



Angle seat valve bracket type 123 PVC-U

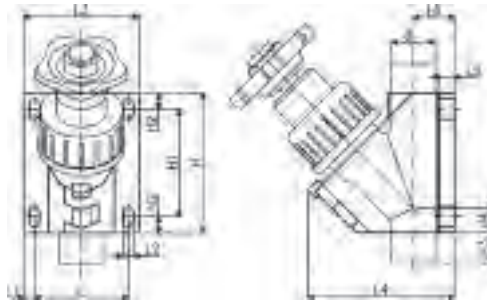
Model:

- Can be fitted to existing installations without interrupting their operation
- Easily assembled without tools
- For Angle Seat Valves Type 300

d (mm)	DN (mm)	Code	Weight (kg)
16	10	161 123 250	0.114
20	15	161 123 300	0.146
25	20	161 123 350	0.230
32	25	161 123 400	0.289
40	32	161 123 450	0.374

table continued on the next page

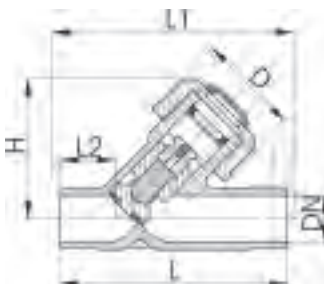
d	H	H1	H2	H3	H4	L	L1	L2	L3	L4	L5	L6	closest inch (inch)
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
16	76	55	11	15	9	62	8	7	78	67	10	22	¾
20	86	65	11	17	11	65	9	7	82	74	10	25	½
25	100	76	12	20	17	73	9	8	91	87	11	30	¾
32	102	78	12	23	14	84	9	8	102	104	13	35	1
40	116	85	16	27	17	90	9	8	107	122	15	42	1 ¼



Angle seat check valve type 303 PVC-U With solvent cement spigots metric

Model:

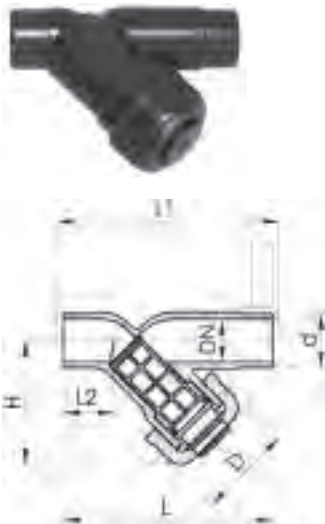
- For horizontal or vertical installation
- Leakproof from: EPDM 2m, FPM 3m water column
- Specific gravity of piston approx. 2 kg/dm³
- Overall length EN 558



d	DN	PN	kv-value (Δp=1 bar)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
(mm)	(mm)	(bar)	(l/min)				
16	10	10	41	161 303 005	0.075	161 303 030	0.094
20	15	10	95	161 303 006	0.113	161 303 031	0.132
25	20	10	180	161 303 007	0.170	161 303 032	0.172
32	25	10	327	161 303 008	0.288	161 303 033	0.290
40	32	10	484	161 303 009	0.444	161 303 034	0.448
50	40	10	725	161 303 010	0.791	161 303 035	0.798
63	50	10	1130	161 303 011	1.345	161 303 036	1.345
75	65	10	1700	161 303 012	2.483	161 303 037	2.499
90	80	10	2500	161 303 013	3.514	161 303 038	3.540

d	D	H	L	L1	L2	closest inch (inch)
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
16	39	58	114	120	24	¾
20	43	65	124	130	28	½
25	47	75	144	150	37	¾
32	56	90	154	160	37	1
40	64	102	174	180	44	1 ¼
50	82	123	194	200	48	1 ½
63	95	144	224	230	60	2
75	92	186	284	290	74	2 ½
90	104	204	300	310	85	3

Strainers



Line strainer type 305 PVC-U
With solvent cement spigots metric

Model:

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- **Screen perforation need be ordered separately**
- Overall length according to EN 558

d	DN	PN	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	Code	(kg)	Code	(kg)
20	15	10	161 305 300	0.101	161 305 349	0.134
25	20	10	161 305 350	0.141	161 305 399	0.215
32	25	10	161 305 400	0.226	161 305 449	0.257
40	32	10	161 305 450	0.348	161 305 499	0.386
50	40	10	161 305 500	0.600	161 305 549	0.632
63	50	10	161 305 550	0.985	161 305 599	1.045
75	65	10	161 305 600	1.868	161 305 649	1.871
90	80	10	161 305 650	2.590	161 305 699	2.585

d	D	H	L	L1	L2	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
20	43	65	124	130	28	1/2
25	47	76	144	150	37	3/4
32	56	90	154	160	37	1
40	64	104	174	180	44	1 1/4
50	82	124	194	200	48	1 1/2
63	95	148	224	230	60	2
75	106	188	284	290	74	2 1/2
90	120	205	300	310	85	3

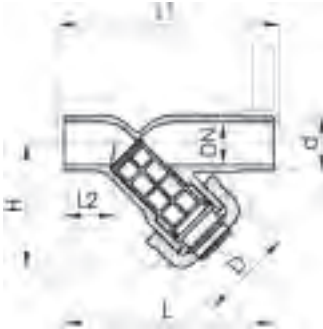


Line strainer type 305 PVC-U

Transparent body with solvent cement spigots metric

Model:

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens
- **Screen perforation need be ordered separately**
- Overall length according to EN 558



d (mm)	DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
20	15	10	192 305 300	0.098	192 305 349	0.100
25	20	10	192 305 350	0.143	192 305 399	0.170
32	25	10	192 305 400	0.227	192 305 449	0.227
40	32	10	192 305 450	0.342	192 305 499	0.346
50	40	10	192 305 500	0.589	192 305 549	0.594
63	50	10	192 305 550	0.968	192 305 599	0.972
75	65	10	192 305 600	1.826	192 305 649	1.838
90	80	10	192 305 650	2.548	192 305 699	2.565

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
20	43	65	124	130	28	½
25	47	76	144	150	37	¾
32	56	90	154	160	37	1
40	64	104	174	180	44	1 ¼
50	82	124	194	200	48	1 ½
63	95	148	224	230	60	2
75	106	188	284	290	74	2 ½
90	120	205	300	310	85	3



Cylindrical screen type 305 PVC-U

Screen perforations 2.2 mm

- For line strainers Type 305

d (mm)	DN (mm)	kv-value (Δp=1 bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	35	161 305 336	0.005	14	39	½
25	20	65	161 305 386	0.003	18	48	¾
32	25	90	161 305 436	0.003	24	60	1
40	32	155	161 305 486	0.003	30	71	1 ¼
50	40	225	161 305 536	0.005	38	87	1 ½
63	50	370	161 305 586	0.008	48	106	2
75	65	575	161 305 636	0.009	61	100	2 ½
90	80	955	161 305 686	0.013	73	118	3



Cylindrical screen type 305 PVC-U
Screen perforations 1.4 mm

- For line strainers Type 305

d (mm)	DN (mm)	kv-value ($\Delta p=1$ bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	35	161 305 337	0.003	14	39	½
25	20	65	161 305 387	0.003	18	48	¾
32	25	90	161 305 437	0.003	24	60	1
40	32	155	161 305 487	0.004	30	71	1 ¼
50	40	225	161 305 537	0.005	38	87	1 ½
63	50	370	161 305 587	0.008	48	106	2
75	65	575	161 305 637	0.011	61	100	2 ½
90	80	955	161 305 687	0.013	73	118	3



Cylindrical screen type 305 PVC-U
Screen perforations 0.8 mm

- For line strainers Type 305

d (mm)	DN (mm)	kv-value ($\Delta p=1$ bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)	closest inch (inch)
20	15	35	161 305 338	0.005	14	39	½
25	20	65	161 305 388	0.007	18	48	¾
32	25	90	161 305 438	0.003	24	60	1
40	32	155	161 305 488	0.004	30	71	1 ¼
50	40	225	161 305 538	0.006	38	87	1 ½
63	50	370	161 305 588	0.003	48	106	2
75	65	575	161 305 638	0.012	61	100	2 ½
90	80	955	161 305 688	0.015	73	118	3



Cylindrical screen type 305 PVC-U
Screen perforations 0.5 mm

- For line strainers Type 305

d (mm)	Size (inch)	DN (mm)	kv-value ($\Delta p=1$ bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)
20	½	15	35	161 305 339	0.005	14	39
25	¾	20	65	161 305 389	0.007	18	48
32	1	25	90	161 305 439	0.003	24	60
40	1 ¼	32	155	161 305 489	0.004	30	71
50	1 ½	40	225	161 305 539	0.007	38	87
63	2	50	370	161 305 589	0.009	48	106
75	2 ½	65	575	161 305 639	0.012	61	100
90	3	80	955	161 305 689	0.016	73	118

Screen assemblies and Inspection glass



DN 15 - 50



DN 15-50

Screen assembly type 050 PVC-U With solvent cement sockets metric

d (mm)	Size (inch)	DN (mm)	kv-value ($\Delta p=1$ bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	perforations ϕ (mm)
20	½	15	105	161 050 026	0.035	50	80	64	2
25	¾	20	228	161 050 027	0.039	50	83	64	2
32	1	25	390	161 050 028	0.046	50	86	64	2
40	1 ¼	32	563	161 050 029	0.147	90	131	105	2
50	1 ½	40	813	161 050 030	0.172	90	136	105	2
63	2	50	1590	161 050 031	0.192	90	143	105	2

Screen assembly type 050 PVC-U With solvent cement sockets metric

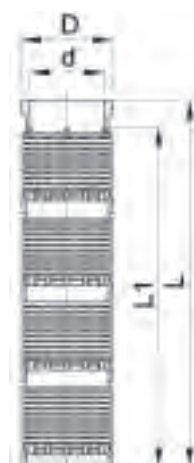
Model:

- ¹ Screen with 1 extension and end plate, solvent cemented
- ² Screen with 2 extensions and end plate, solvent cemented
- ³ Screen with 3 extensions and end plate, solvent cemented

d (mm)	DN (mm)	kv-value ($\Delta p=1$ bar) (l/min)	Code	Weight (kg)	D (mm)	L (mm)	L1 (mm)	closest inch (inch)	lamina width (mm)	
*	75	65	9640	161 050 032	0.837	110	260	216	2 ½	3
*	90	80	14790	161 050 033	0.944	110	345	312	3	3
*	110	100	15213	161 050 034	1.338	125	490	460	4	3

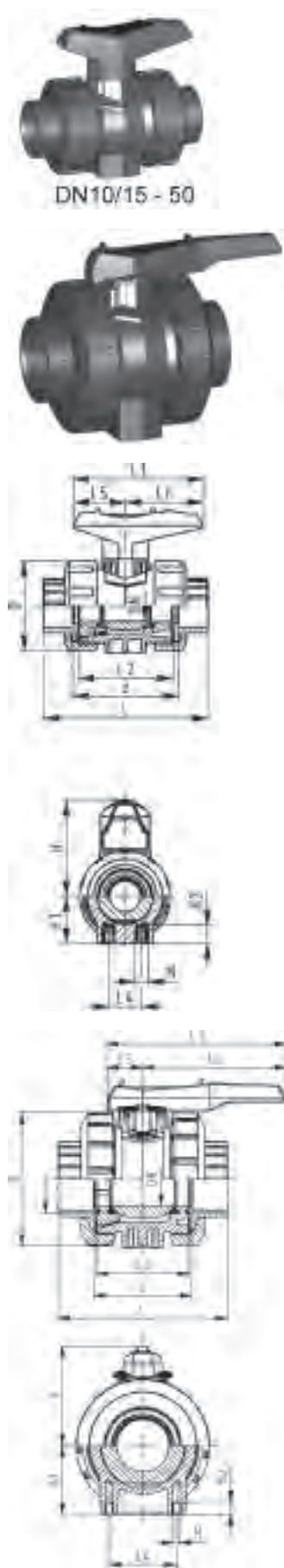


DN 65-100



DN 85-100

Ball valves type 546



Ball valve type 546 PVC-U
With mounting inserts
With solvent cement sockets inch BS

Model:

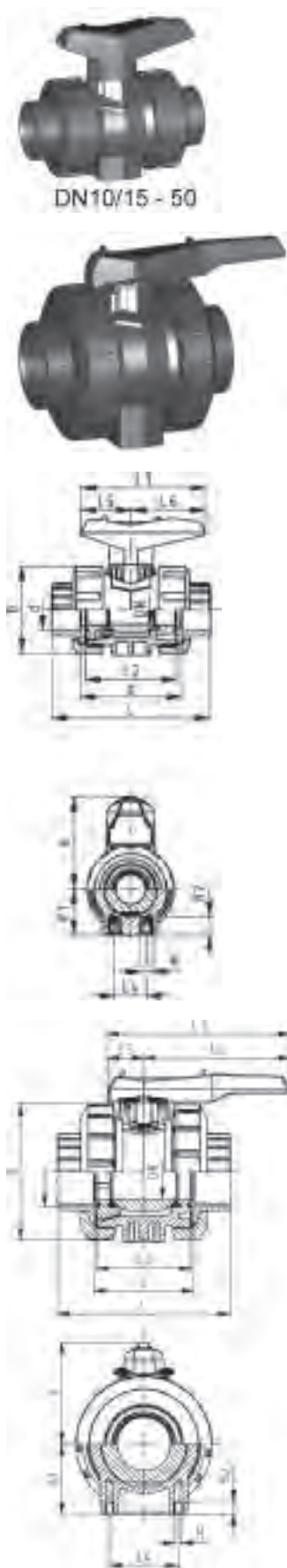
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
	$\frac{3}{8}$	10	16	71	161 546 241	0.150	161 546 251	0.150
	$\frac{1}{2}$	15	16	185	161 546 242	0.150	161 546 252	0.150
	$\frac{3}{4}$	20	16	350	161 546 243	0.230	161 546 253	0.230
	1	25	16	700	161 546 244	0.335	161 546 254	0.330
	1 $\frac{1}{4}$	32	16	1000	161 546 245	0.585	161 546 255	0.585
	1 $\frac{1}{2}$	40	16	1600	161 546 246	0.850	161 546 256	0.862
	2	50	16	3100	161 546 247	1.567	161 546 257	1.582
75	2 $\frac{1}{2}$	65	16	5000	161 546 068	4.343	161 546 078	3.563
	3	80	16	7000	161 546 249	5.607	161 546 259	5.404
	4	100	16	11000	161 546 250	8.531	161 546 260	8.581

D	H	H1	H2	L	L1	L2	L4	L5	L6	M	z	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
50	57	27	12	92	77	56	25	32	45	6	67	
50	57	27	12	95	77	56	25	32	45	6	61	
58	67	30	12	110	97	65	25	39	58	6	70	
68	73	36	12	123	97	71	25	39	58	6	76	
84	90	44	15	146	128	85	45	54	74	8	90	
97	97	51	15	157	128	89	45	54	74	8	94	
124	116	64	15	183	152	101	45	66	87	8	107	
166	149	85	15	233	270	136	70	64	206	8	144	2 $\frac{1}{2}$
200	161	105	15	254	270	141	70	64	206	8	151	
238	178	123	22	301	320	164	120	64	256	12	174	



Ball valve type 546 PVC-U
With mounting inserts
With solvent cement sockets JIS

Model:

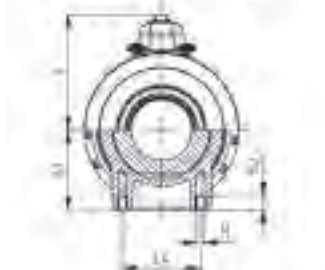
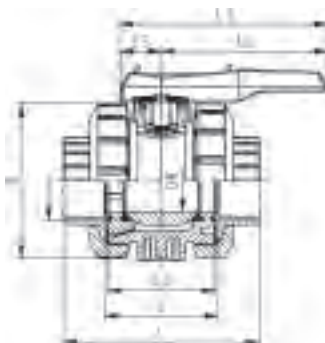
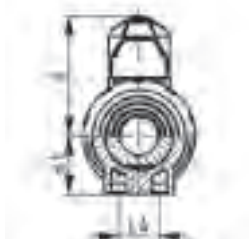
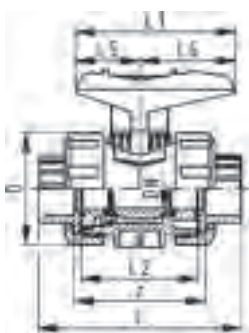
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	16	185	161 546 882	0.157	161 546 892	0.155
¾	20	16	350	161 546 883	0.236	161 546 893	0.241
1	25	16	700	161 546 884	0.346	161 546 894	0.349
1 ¼	32	16	1000	161 546 885	0.617	161 546 895	0.610
1 ½	40	16	1600	161 546 886	0.851	161 546 896	0.862
2	50	16	3100	161 546 887	1.568	161 546 897	1.495
2 ½	65	16	5000	161 546 888	4.298	161 546 898	4.900
3	80	16	7000	161 546 889	7.400	161 546 899	7.400
4	100	16	11000	161 546 890	8.539	161 546 900	11.500

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
½	50	57	27	12	95	77	56	25	32	45	M6	64
¾	58	67	30	12	110	97	65	25	39	58	M6	72
1	68	73	36	12	123	97	71	25	39	58	M6	79
1 ¼	84	90	44	15	146	128	85	45	54	74	M8	94
1 ½	97	97	51	15	157	128	89	45	54	74	M8	95
2	124	116	64	15	183	152	101	45	66	87	M8	107
2 ½	166	149	85	15	233	270	136	70	64	206	M8	144
3	200	161	105	15	254	270	141	70	64	206	M8	151
4	238	178	123	22	301	320	164	70	64	256	M12	174



Ball valve type 546 PVC-U With solvent cement sockets Inch BS

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
	3/8	10	16	71	161 546 201	0.151	161 546 211	0.150
	1/2	15	16	185	161 546 202	0.149	161 546 212	0.150
	3/4	20	16	350	161 546 203	0.229	161 546 213	0.230
	1	25	16	700	161 546 204	0.334	161 546 214	0.336
	1 1/4	32	16	1000	161 546 205	0.588	161 546 215	0.585
	1 1/2	40	16	1600	161 546 206	0.843	161 546 216	0.815
	2	50	16	3100	161 546 207	1.564	161 546 217	1.577
75		65	16	5000	161 546 008	3.781	161 546 018	3.794
	3	80	16	7000	161 546 209	6.189	161 546 219	7.400
	4	100	16	11000	161 546 210	11.600	161 546 220	11.600

D	H	H1	L	L1	L2	L4	L5	L6	z	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
50	57	27	92	77	56	25	32	45	60	
50	57	27	95	77	56	25	32	45	60	
58	67	30	110	97	65	25	39	58	69	
68	73	36	123	97	71	25	39	58	75	
84	90	44	146	128	85	45	54	74	89	
97	97	51	157	128	89	45	54	74	97	
124	116	64	183	152	101	45	66	87	110	
166	149	85	233	270	136	70	64	206	144	2 1/2
200	161	105	254	270	141	70	64	206	151	
238	178	123	301	320	164	120	64	256	174	



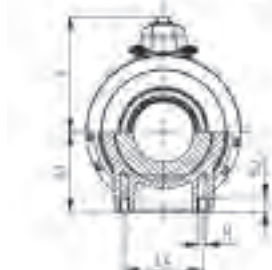
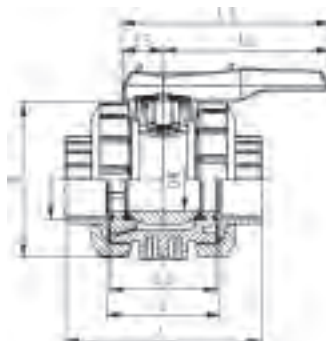
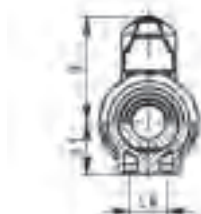
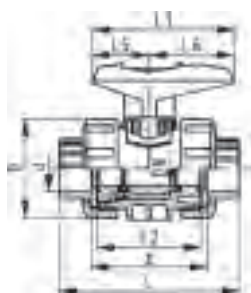
Ball valve type 546 PVC-U **With solvent cement sockets JIS**

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

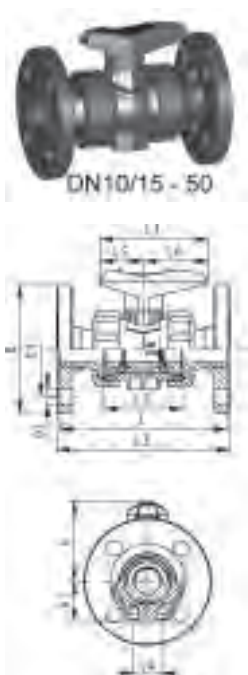
Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
1/2	15	16	185	161 546 402	0.150	161 546 412	0.150
3/4	20	16	350	161 546 403	0.232	161 546 413	0.236
1	25	16	700	161 546 404	0.340	161 546 414	0.343
1 1/4	32	16	1000	161 546 405	0.611	161 546 415	0.610
1 1/2	40	16	1600	161 546 406	0.844	161 546 416	0.855
2	50	16	3100	161 546 407	1.563	161 546 417	1.576
2 1/2	65	16	5000	161 546 408	4.900	161 546 418	4.900
3	80	16	7000	161 546 409	7.400	161 546 419	7.400
4	100	16	11000	161 546 410	11.500	161 546 420	11.500

Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)
1/2	50	57	27	95	77	56	25	32	45	64
3/4	58	67	30	110	97	65	25	39	58	72
1	68	73	36	123	97	71	25	39	58	79
1 1/4	84	90	44	146	128	85	45	54	74	94
1 1/2	97	97	51	157	128	89	45	54	74	95
2	124	116	64	183	152	101	45	66	87	107
2 1/2	166	149	85	233	270	136	70	64	206	144
3	200	161	105	254	270	141	70	64	206	151
4	238	178	123	301	320	164	120	64	256	174



Ball valve type 546 PVC-U
With fixed flanges PVC-U JIS

Model:

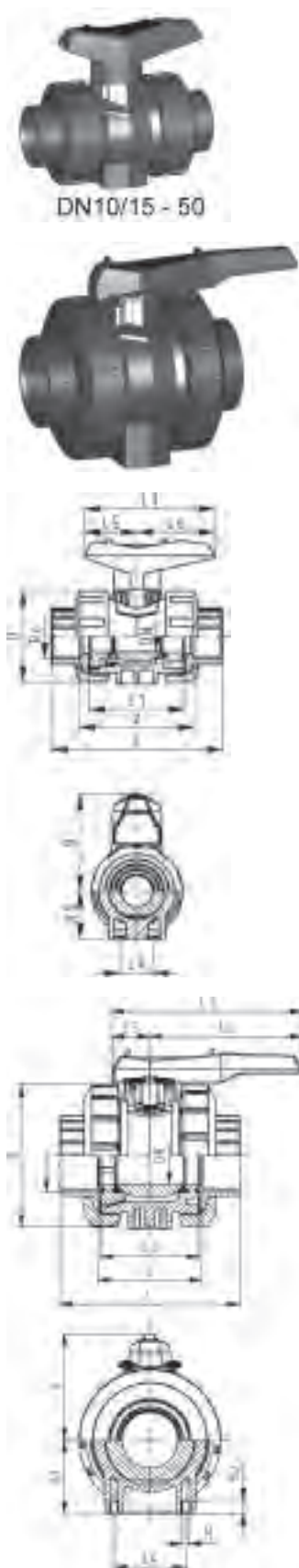
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	16	185	161 546 482	0.411	161 546 492	0.412
¾	20	16	350	161 546 483	0.534	161 546 493	0.535
1	25	16	700	161 546 484	0.816	161 546 494	0.818
1 ¼	32	16	1000	161 546 485	1.385	161 546 495	1.385
1 ½	40	16	1600	161 546 486	1.561	161 546 496	1.569
2	50	16	3100	161 546 487	2.546	161 546 497	2.572

Size (inch)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	T (mm)
½	95	70	15	57	27	77	56	143	25	32	45	14
¾	100	75	15	67	30	97	65	172	25	39	58	14
1	125	90	19	73	36	97	71	187	25	39	58	14
1 ¼	135	100	19	90	44	128	85	190	45	54	74	17
1 ½	140	105	19	97	51	128	89	212	45	54	74	18
2	155	120	19	116	64	152	101	234	45	66	87	20



Ball valve type 546 PVC-U **With threaded sockets Rc**

Model:

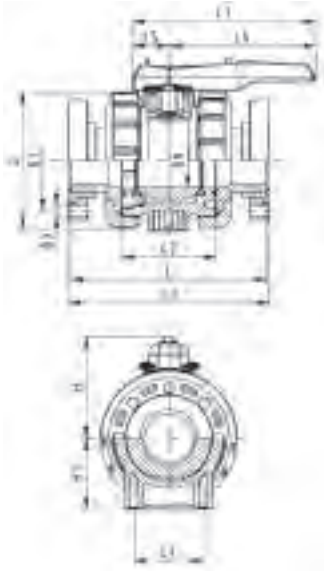
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Rc (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	185	161 546 422	0.160	161 546 432	0.159
¾	20	10	350	161 546 423	0.240	161 546 433	0.240
1	25	10	700	161 546 424	0.345	161 546 434	0.345
1 ¼	32	10	1000	161 546 425	0.610	161 546 435	0.610
1 ½	40	10	1600	161 546 426	0.835	161 546 436	0.835
2	50	10	3100	161 546 427	1.583	161 546 437	1.520
2 ½	65	10	5000	161 546 428	5.000	161 546 438	5.000
3	80	10	7000	161 546 429	7.500	161 546 439	7.500
4	100	10	11000	161 546 430	11.700	161 546 440	11.700

Rc (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)
½	50	57	27	100	77	56	25	32	45	66
¾	58	67	30	114	97	65	25	39	58	78
1	68	73	36	127	97	71	25	39	58	85
1 ¼	84	90	44	146	128	85	45	54	74	98
1 ½	97	97	51	152	128	89	45	54	74	104
2	124	116	64	177	152	101	45	66	87	119
2 ½	166	149	85	233	270	136	70	64	206	144
3	200	161	105	254	270	141	70	64	206	151
4	238	178	123	301	320	164	120	64	256	174



Ball valve type 546 PVC-U **With backing flanges PVC-U JIS**

Model:

- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
2 1/2	65	10	5000	161 546 268	4.670	161 546 278	5.600
3	80	10	7000	161 546 269	8.400	161 546 279	8.400
4	100	10	11000	161 546 270	11.473	161 546 280	13.100

Size (inch)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
2 1/2	166	140	19	149	85	284	270	136	261	70	64	206
3	200	150	19	161	105	300	270	141	304	70	64	206
4	238	175	19	178	123	340	320	164	373	120	64	256



Ball valve type 546 PVC-U
With lockable handle
With solvent cement sockets Inch BS

Model:

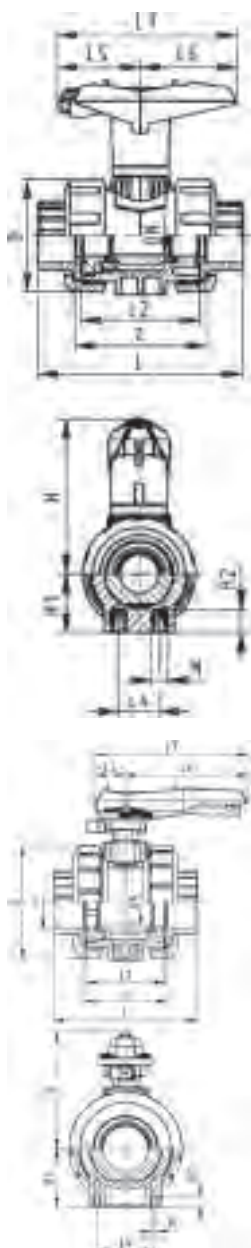
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	16	71	161 546 221	0.165	161 546 231	0.165
1/2	15	16	185	161 546 222	0.164	161 546 232	0.165
3/4	20	16	350	161 546 223	0.255	161 546 233	0.255
1	25	16	700	161 546 224	0.358	161 546 234	0.355
1 1/4	32	16	1000	161 546 225	0.625	161 546 235	0.625
1 1/2	40	16	1600	161 546 226	0.855	161 546 236	0.855
2	50	16	3100	161 546 227	1.605	161 546 237	1.535
2 1/2	65	16	5000	161 546 088	5.200	161 546 098	5.200
3	80	16	7000	161 546 229	7.700	161 546 239	7.700
4	100	16	11000	161 546 230	12.000	161 546 240	12.000

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
3/8	50	79	27	12	92	87	56	25	42	45	M6	60
1/2	50	79	27	12	95	87	56	25	42	45	M6	60
3/4	58	88	30	12	110	108	65	25	50	58	M6	69
1	68	94	36	12	123	108	71	25	50	58	M6	75
1 1/4	84	113	44	15	146	140	85	45	66	75	M8	89
1 1/2	97	119	51	15	157	140	89	45	66	75	M8	97
2	124	141	64	15	183	165	101	45	78	87	M8	110
2 1/2	166	224	85	15	233	270	136	70	64	206	M8	144
3	200	235	105	15	254	270	141	70	64	206	M8	151
4	238	245	123	22	301	320	164	120	64	256	M12	174





Ball valve type 546 PVC-U
With lockable handle
With solvent cement sockets JIS

Model:

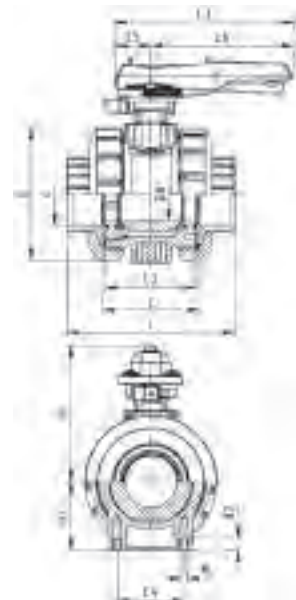
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Lockable hand lever with ratchet settings

Option:

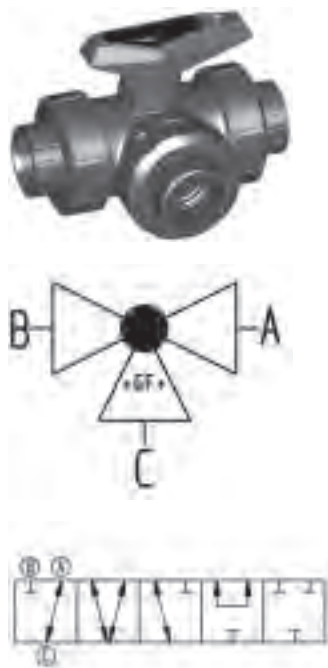
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)
2 1/2	65	16	5000	161 546 448	5.200
3	80	16	7000	161 546 449	7.700
4	100	16	11000	161 546 450	11.900

Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)
2 1/2	166	224	85	233	270	136	70	64	206	144
3	200	235	105	254	270	141	70	64	206	151
4	238	245	123	301	320	164	120	64	256	174



3-Way ball valves type 543



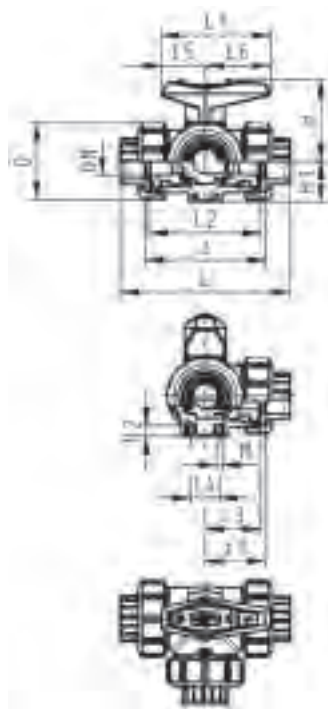
3-Way ball valve type 543 PVC-U Horizontal/L-port With solvent cement sockets BS

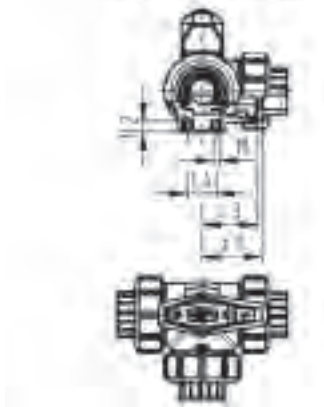
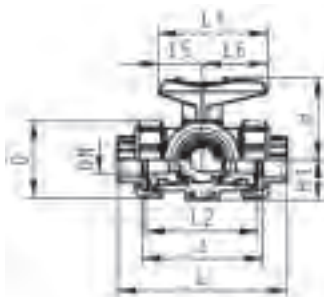
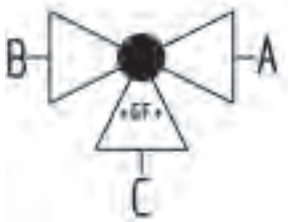
Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	50	161 543 061	0.245	161 543 071	0.245
1/2	15	10	75	161 543 062	0.251	161 543 072	0.251
3/4	20	10	150	161 543 063	0.361	161 543 073	0.361
1	25	10	280	161 543 064	0.551	161 543 074	0.551
1 1/4	32	10	480	161 543 065	0.938	161 543 075	0.938
1 1/2	40	10	620	161 543 066	1.388	161 543 076	1.390
2	50	10	1230	161 543 067	2.728	161 543 077	2.705

Size	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	50	57	28	8	109	77	73	36	25	32	45	6	77	38
1/2	50	57	28	8	112	77	73	36	25	32	45	6	77	38
3/4	58	67	32	8	131	97	86	43	25	39	58	6	90	45
1	68	73	36	8	151	97	99	50	25	39	58	6	103	52
1 1/4	84	90	45	9	181	128	120	60	45	54	74	8	124	62
1 1/2	97	97	51	9	205	128	137	69	45	54	74	8	145	73
2	124	116	65	9	261	152	179	89	45	66	87	8	189	94





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

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
1/2	15	10	75	161 543 122	0.226	161 543 132	0.251
3/4	20	10	150	161 543 123	0.361	161 543 133	0.361
1	25	10	280	161 543 124	0.551	161 543 134	0.551
1 1/4	32	10	480	161 543 125	0.938	161 543 135	0.938
1 1/2	40	10	620	161 543 126	1.390	161 543 136	1.390
2	50	10	1230	161 543 127	2.723	161 543 137	2.705

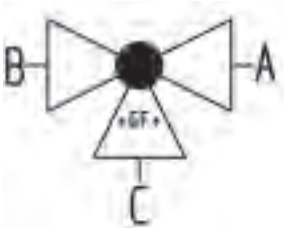
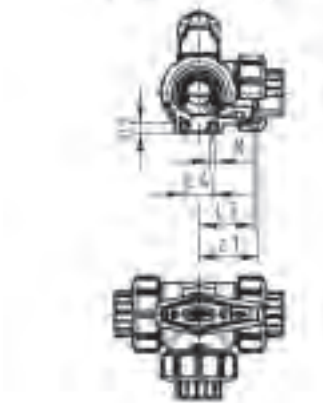
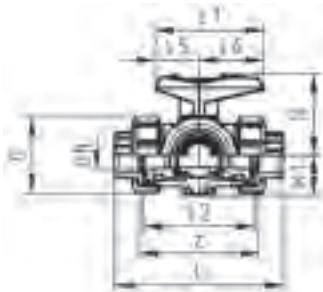
Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)	z (mm)	z1 (mm)
1/2	50	57	28	8	112	77	73	36	25	32	45	6	81	40
3/4	58	67	32	8	131	97	86	43	25	39	58	6	94	47
1	68	73	36	8	151	97	99	50	25	39	58	6	107	54
1 1/4	84	90	45	9	181	128	120	60	45	54	74	8	130	65
1 1/2	97	97	51	9	205	128	137	69	45	54	74	8	143	72
2	124	116	65	9	261	152	179	89	45	66	87	8	185	92



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

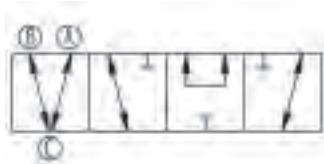
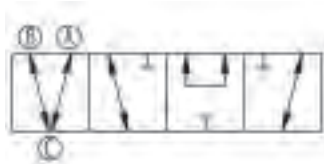
Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	140	161 543 261	0.244	161 543 271	0.244
1/2	15	10	200	161 543 262	0.250	161 543 272	0.250
3/4	20	10	470	161 543 263	0.359	161 543 273	0.359
1	25	10	793	161 543 264	0.544	161 543 274	0.544
1 1/4	32	10	1290	161 543 265	0.927	161 543 275	0.927
1 1/2	40	10	1910	161 543 266	1.370	161 543 276	1.391
2	50	10	3100	161 543 267	2.689	161 543 277	2.660

Size (inch)	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)
3/8	50	57	28	8	109	77	73	36	25	32	45	6	77	38
1/2	50	57	28	8	112	77	73	36	25	32	45	6	77	38
3/4	58	67	32	8	131	97	86	43	25	39	58	6	90	45
1	68	73	36	8	151	97	99	50	25	39	58	6	103	52
1 1/4	84	90	45	9	181	128	120	60	45	54	74	8	124	62
1 1/2	97	97	51	9	205	128	137	69	45	54	74	8	145	73
2	124	116	65	9	261	152	179	89	45	66	87	8	189	94





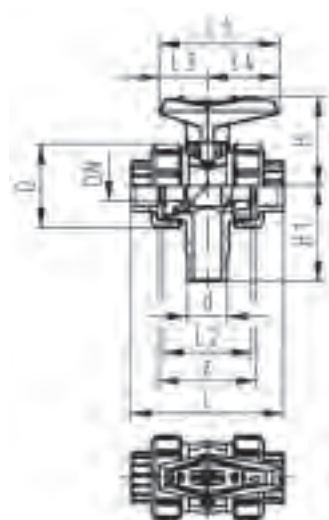
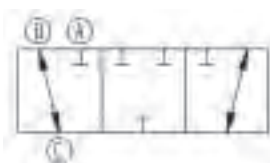
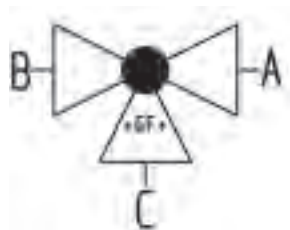
3-Way ball valve type 543 PVC-U Vertical/L-port With solvent cement sockets BS

Model:

- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

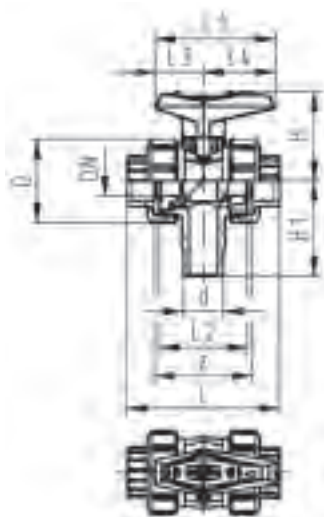
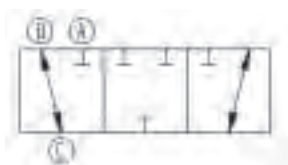
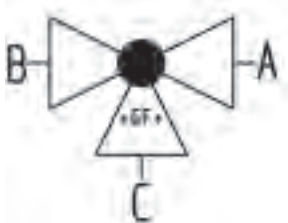
Mode of action:

- For interconnection of two inputs



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	49	161 543 601	0.162	161 543 611	0.162
1/2	15	10	77	161 543 602	0.166	161 543 612	0.166
3/4	20	10	146	161 543 603	0.255	161 543 613	0.255
1	25	10	260	161 543 604	0.372	161 543 614	0.372
1 1/4	32	10	437	161 543 605	0.622	161 543 615	0.622
1 1/2	40	10	667	161 543 606	0.886	161 543 616	0.886
2	50	10	1293	161 543 607	1.617	161 543 617	1.617

Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	z (mm)
3/8	50	57	62	92	77	56	32	45	60
1/2	50	57	62	95	77	56	32	45	60
3/4	58	67	72	111	97	66	39	58	69
1	68	73	77	123	97	71	39	58	75
1 1/4	84	90	87	146	128	85	54	74	89
1 1/2	97	97	97	157	128	89	54	74	97
2	124	116	112	183	152	101	66	87	110



3-Way ball valve type 543 PVC-U Vertical/L-port With solvent cement sockets JIS

Model:

- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

Mode of action:

- For interconnection of two inputs

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
1/2	15	10	77	161 543 942	0.166	161 543 952	0.159
3/4	20	10	146	161 543 943	0.255	161 543 953	0.255
1	25	10	260	161 543 944	0.372	161 543 954	0.372
1 1/4	32	10	437	161 543 945	0.622	161 543 955	0.622
1 1/2	40	10	667	161 543 946	0.886	161 543 956	0.886
2	50	10	1293	161 543 947	1.617	161 543 957	1.617

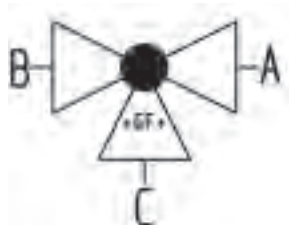
Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	z (mm)
1/2	50	57	62	95	77	56	32	45	64
3/4	58	67	72	111	97	66	39	58	74
1	68	73	77	123	97	71	39	58	79
1 1/4	84	90	87	146	128	85	54	74	95
1 1/2	97	97	97	157	128	89	54	74	95
2	124	116	112	183	152	101	66	87	107



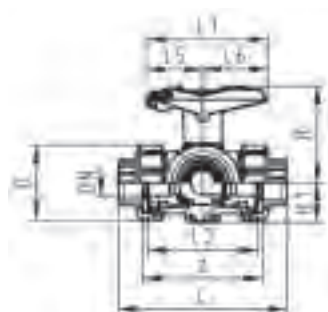
3-Way ball valve type 543 PVC-U
Horizontal/L-port
With lockable handle
With solvent cement sockets BS

Model:

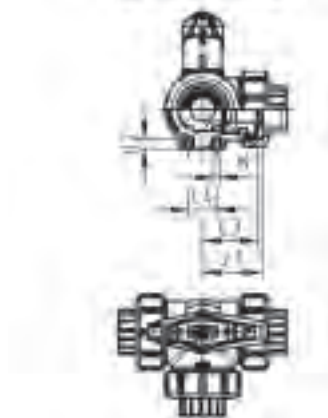
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-C opened, see flow scheme

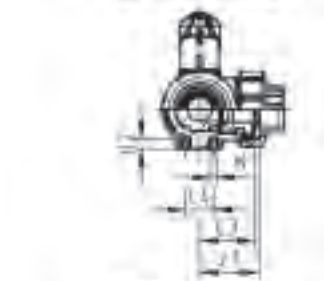
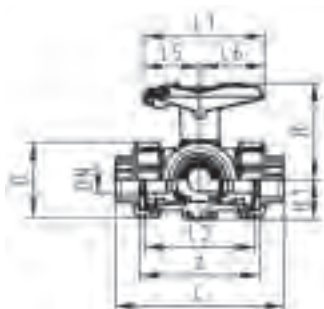
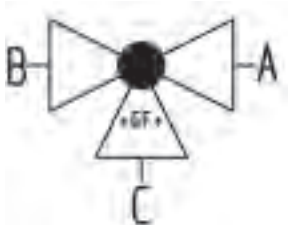


Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	50	161 543 861	0.259	161 543 871	0.259
1/2	15	10	75	161 543 862	0.265	161 543 872	0.265
3/4	20	10	150	161 543 863	0.378	161 543 873	0.378
1	25	10	280	161 543 864	0.568	161 543 874	0.568
1 1/4	32	10	480	161 543 865	0.961	161 543 875	0.961
1 1/2	40	10	620	161 543 866	1.413	161 543 876	1.413
2	50	10	1230	161 543 867	2.736	161 543 877	2.736



Size	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
3/8	50	79	28	8	109	87	73	36	25	42	45	6	77	38
1/2	50	79	28	8	112	87	73	36	25	42	45	6	77	38
3/4	58	88	32	8	131	108	86	43	25	50	58	6	90	45
1	68	94	36	8	151	108	99	50	25	50	58	6	103	52
1 1/4	84	113	45	9	181	141	120	60	45	66	75	8	124	62
1 1/2	97	119	51	9	205	141	137	69	45	66	75	8	145	73
2	124	141	65	9	261	165	179	89	45	78	87	8	189	94





3-Way ball valve type 543 PVC-U

Horizontal/L-port

With lockable handle

With solvent cement sockets JIS

Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-C opened, see flow scheme

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10	75	161 543 522	0.265	161 543 532	0.265
¾	20	10	150	161 543 523	0.378	161 543 533	0.378
1	25	10	280	161 543 524	0.568	161 543 534	0.568
1 ¼	32	10	480	161 543 525	0.961	161 543 535	0.961
1 ½	40	10	620	161 543 526	1.413	161 543 536	1.413
2	50	10	1230	161 543 527	2.736	161 543 537	2.736

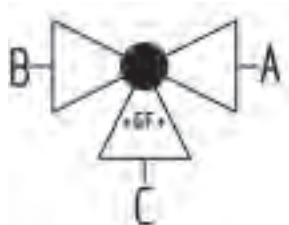
Size	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	50	79	28	8	112	87	73	36	25	42	45	6	81	40
¾	58	88	32	8	131	108	86	43	25	50	58	6	94	47
1	68	94	36	8	151	108	99	50	25	50	58	6	107	54
1 ¼	84	113	45	9	181	141	120	60	45	66	75	8	130	65
1 ½	97	119	51	9	205	141	137	69	45	66	75	8	143	72
2	124	141	65	9	261	165	179	89	45	78	87	8	185	92



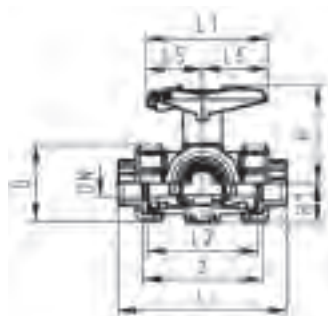
3-Way ball valve type 543 PVC-U
Horizontal/T-port
With lockable handle
With solvent cement sockets BS

Model:

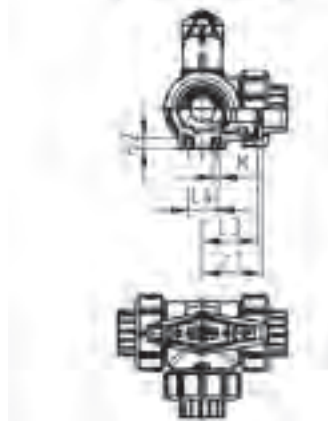
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Multifunctional lever red with ratched setting 45°, lockable
- Delivery status A-B-C opened, see flow scheme



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
3/8	10	10	140	161 543 881	0.258	161 543 891	0.258
1/2	15	10	200	161 543 882	0.264	161 543 892	0.264
3/4	20	10	470	161 543 883	0.376	161 543 893	0.376
1	25	10	793	161 543 884	0.561	161 543 894	0.561
1 1/4	32	10	1290	161 543 885	0.950	161 543 895	0.950
1 1/2	40	10	1910	161 543 886	1.392	161 543 896	1.392
2	50	10	3100	161 543 887	2.691	161 543 897	2.691

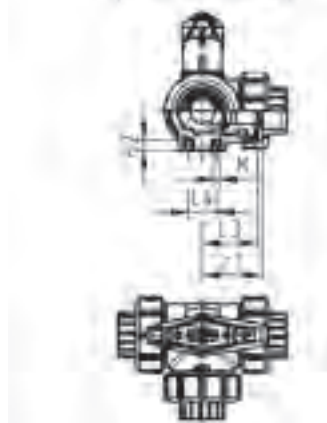


Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)	z (mm)	z1 (mm)
3/8	50	79	28	8	109	87	73	36	25	42	45	6	77	38
1/2	50	79	28	8	112	87	73	36	25	42	45	6	77	38
3/4	58	88	32	8	131	108	86	43	25	50	58	6	90	45
1	68	94	36	8	151	108	99	50	25	50	58	6	103	52
1 1/4	84	113	45	9	181	141	120	60	45	66	75	8	124	62
1 1/2	97	119	51	9	205	141	137	69	45	66	75	8	145	73
2	124	141	65	9	261	165	179	89	45	78	87	8	189	94





Size	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	50	79	28	8	112	87	73	36	25	42	45	6	81	40
¾	58	88	32	8	131	108	86	43	25	50	58	6	94	47
1	68	94	36	8	151	108	99	50	25	50	58	6	107	54
1 ¼	84	113	45	9	181	141	120	60	45	66	75	8	130	65
1 ½	97	119	51	9	205	141	137	69	45	66	75	8	143	72
2	124	141	65	9	261	165	179	89	45	78	87	8	185	92



Metering ball valves type 523



Metering ball valve type 523 PVC-U
With mounting inserts
With solvent cement sockets Inch BS

Model:

- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

- Other materials on demand

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
3/8	10	10	11	161 523 501	0.170	161 523 511	0.170
1/2	15	10	20	161 523 502	0.170	161 523 512	0.170

Size	D	H	H1	L	L1	L2	L4	L5	L6	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3/8	50	68	27	92	77	56	25	32	45	60
1/2	50	68	27	95	77	56	25	32	45	60



Metering ball valve type 523 PVC-U
With mounting inserts
With solvent cement sockets JIS

Model:

- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

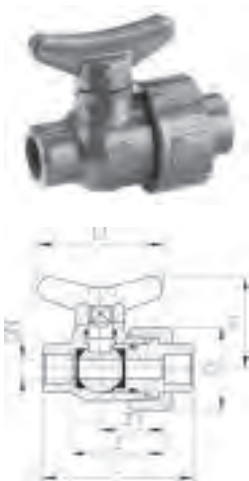
Option:

- Other materials on demand

Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
1/2	15	10	20	161 523 562	0.170	161 523 572	0.170

Size	D	H	H1	L	L1	L2	L4	L5	L6	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
1/2	50	68	27	95	77	56	25	32	45	64

Laboratory ball valves type 322



Laboratory ball cock type 322 PVC-U
With solvent cement sockets Inch BS/ASTM

Model:

- Disconnection one end only
- Ball seals PTFE
- Angle of operation 90°

DN (mm)	PN (bar)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
6	10	161 324 150	0.043	161 324 199	0.042
8	10	161 324 200	0.044	161 324 249	0.045

D (mm)	H (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	Inch (inch)
34	38	52	45	26	15	1/8
34	38	60	45	36	25	1/4

Diaphragm valves



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

Model:

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

Option:

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

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	NBR Code	Weight (kg)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10	125	161 514 502	0.396	161 514 512	0.296	161 514 532	0.295
¾	20	10	271	161 514 503	0.525	161 514 513	0.422	161 514 533	0.536
1	25	10	481	161 514 504	1.159	161 514 514	0.671	161 514 534	1.179
1 ¼	32	10	759	161 514 505	1.419	161 514 515	0.942	161 514 535	1.439
1 ½	40	10	1263	161 514 506	2.528	161 514 516	1.636	161 514 536	2.558
2	50	10	1728	161 514 507	3.409	161 514 517	2.514	161 514 537	2.564

Size (inch)	FPM Code	Weight (kg)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
½	161 514 562	0.396	65	65	43	73	14	12	128	25	M6	96	7
¾	161 514 563	0.432	80	65	51	81	18	12	152	25	M6	114	10
1	161 514 564	0.687	88	87	58	107	22	12	166	25	M6	122	13
1 ¼	161 514 565	1.419	101	87	72	115	26	15	192	45	M8	140	15
1 ½	161 514 566	2.528	117	135	83	148	32	15	222	45	M8	160	19
2	161 514 567	3.409	144	135	100	166	39	15	266	45	M8	190	25



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

Model:

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

Option:

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

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10	125	161 514 812	0.433	161 514 832	0.548
¾	20	10	271	161 514 813	0.421	161 514 833	0.538
1	25	10	481	161 514 814	1.163	161 514 834	1.183
1 ¼	32	10	759	161 514 815	1.437	161 514 835	1.457
1 ½	40	10	1263	161 514 816	1.640	161 514 836	2.588
2	50	10	1728	161 514 817	2.530	161 514 837	3.453

table continued on the next page



Size	D	D2	D3	H	H1	H2	L	L2	M	z	Lift = Hx
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	80	65	51	81	18	12	152	25	M6	120	10
¾	80	65	51	81	18	12	152	25	M6	114	10
1	88	87	58	107	22	12	166	25	M6	122	13
1 ¼	101	87	72	115	26	15	192	45	M8	140	15
1 ½	117	135	83	148	32	15	222	45	M8	160	19
2	144	135	100	166	39	15	266	45	M8	190	25



Diaphragm valve type 514 PVC-U With threaded sockets Rc

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 (see diagram)
- Self adjusting multifunctional module with integrated limit switches
- PN16 available as a configuration



Rc	DN	PN	kv-value (Δp=1 bar)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
(inch)	(mm)	(bar)	(L/min)				
½	15	10	125	161 514 912	0.537	161 514 932	0.548
¾	20	10	271	161 514 913	0.528	161 514 933	0.540
1	25	10	481	161 514 914	1.165	161 514 934	1.185
1 ¼	32	10	759	161 514 915	1.433	161 514 935	1.453
1 ½	40	10	1263	161 514 916	2.556	161 514 936	2.586
2	50	10	1728	161 514 917	3.497	161 514 937	3.525

Rc	D	D2	D3	H	H1	H2	L	L2	M	z	Lift = Hx
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	80	65	51	81	18	12	152	25	M6	120	10
¾	80	65	51	81	18	12	152	25	M6	114	10
1	88	87	58	107	22	12	166	25	M6	122	13
1 ¼	101	87	72	115	26	15	192	45	M8	140	15
1 ½	117	135	83	148	32	15	222	45	M8	160	19
2	144	135	100	166	39	15	266	45	M8	190	25



Diaphragm valve type 517 PVC-U With fixed flanges PVC-U JIS

Model:

- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches



Size	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10	125	161 517 912	0.528	161 517 932	0.538
¾	20	10	271	161 517 913	0.626	161 517 933	0.637
1	25	10	481	161 517 914	1.334	161 517 934	1.354
1 ¼	32	10	759	161 517 915	1.745	161 517 935	1.765
1 ½	40	10	1263	161 517 916	2.814	161 517 936	2.844
2	50	10	1728	161 517 917	3.652	161 517 937	3.680

Size	D	D2	D3	D4	D5	H	H1	H2	L	L2	M	Lift = Hx
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
½	65	65	95	70	15	73	14	12	110	25	M6	7
¾	80	65	100	75	15	81	18	12	120	25	M6	10
1	88	87	125	90	19	107	22	12	130	25	M6	13
1 ¼	101	87	135	100	19	115	26	15	180	45	M8	15
1 ½	117	135	140	105	19	148	32	15	180	45	M8	19
2	144	135	155	120	19	166	39	15	210	45	M8	25



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

Model:

- Flat sealing faces
- Overall length according to EN 558

Option:

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



Size	DN	PN	kv-value	EPDM	PTFE with	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	EPDM supp. diaphragm Code	(kg)
			(l/min)			
2 ½	65	10	992	161 317 868	161 317 883	4.300
3	80	10	1700	161 317 824	161 317 839	9.700
4	100	10	2700	161 317 825	161 317 840	11.500
6	150	7	6033	161 317 827		

table continued on the next page

Size (inch)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	M	Lift = Hx (mm)	AL
2 ½	175	140	152	18	201	46	15	250		70		M8	30	4
3	185	150	270	18	265	57	23	280	35	120		M12	40	8
4	210	175	270	18	304	69	23	340	35	120		M12	50	8
6	230	240	400	22	437	108	23	480	26	100	200	M12	70	8



Process control valves



Ventilating and bleed valve
Type 591 PVC-U
With solvent cement sockets Inch BS

- Model:**
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
 - Floater made of PP-H
 - Designed for easy installation and removal
 - Compact installation length

d	Size	DN	PN	EPDM	FPM	D	L	t	closest inch
(mm)	(inch)	(mm)	(bar)	Code	Code	(mm)	(mm)	(mm)	(inch)
	3/8	10	16	161 591 061	161 591 071	50	118	16	
	1/2	15	16	161 591 062	161 591 072	50	124	18	
	3/4	20	16	161 591 063	161 591 073	58	142	21	
	1	25	16	161 591 064	161 591 074	68	157	24	
	1 1/4	32	16	161 591 065	161 591 075	84	179	29	
	1 1/2	40	16	161 591 066	161 591 076	97	197	30	
	2	50	16	161 591 067	161 591 077	124	229	36	
75		65	16	161 591 008	161 591 018	166	258	45	2 1/2
	3	80	16	161 591 069	161 591 079	200	277	51	
	4	100	16	161 591 070	161 591 080	238	320	64	

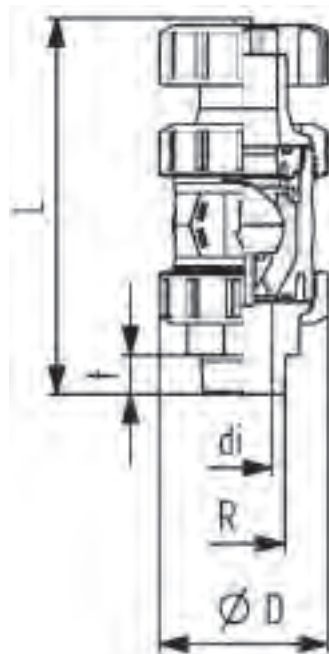


Ventilating and bleed valve
Type 591 PVC-U
With BSP brass thread

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	DN	PN	EPDM	FPM	di	D	L	t	R
(mm)	(mm)	(bar)	Code	Code	(mm)	(mm)	(mm)	(mm)	(inch)
16	10	16	161 591 139	161 591 149	10	50	135	13.0	½
20	15	16	161 591 140	161 591 150	13	50	140	14.0	½
25	20	16	161 591 141	161 591 151	16	58	156	16.5	¾
32	25	16	161 591 142	161 591 152	20	68	172	19.0	1
40	32	16	161 591 143	161 591 153	26	84	195	21.5	1 ¼
50	40	16	161 591 144	161 591 154	33	97	216	22.5	1 ½
63	50	16	161 591 145	161 591 155	40	124	252	27.0	2
75	65	16	161 591 146	161 591 156	58	166	292	38.2	2 ½
90	80	16	161 591 147	161 591 157	70	200	311	41.3	3
110	100	16	161 591 148	161 591 158	95	238	354	47.3	4





Ventilating valve type 595 PVC-U
With solvent cement sockets Inch BS

Model:

- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Spring HALAR coated
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Compact installation length

d	Size	DN	PN	EPDM	FPM	D	L	t	closest inch
(mm)	(inch)	(mm)	(bar)	Code	Code	(mm)	(mm)	(mm)	(inch)
	¾	10	16	161 595 061	161 595 071	50	118	16	
	½	15	16	161 595 062	161 595 072	50	124	18	
	¾	20	16	161 595 063	161 595 073	58	142	21	
	1	25	16	161 595 064	161 595 074	68	157	24	
	1 ¼	32	16	161 595 065	161 595 075	84	179	29	
	1 ½	40	16	161 595 066	161 595 076	97	197	30	
	2	50	16	161 595 067	161 595 077	124	229	36	
75		65	16	161 595 008	161 595 018	166	258	45	2 ½
	3	80	16	161 595 069	161 595 079	200	277	51	
	4	100	16	161 595 070	161 595 080	238	320	64	

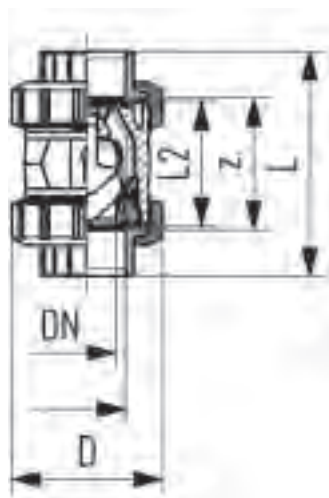
Cone check valves



Check valve type 561 PVC-U
With solvent cement sockets Inch BS

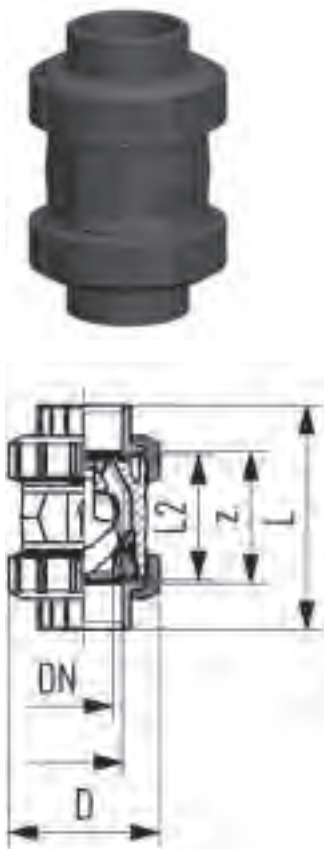
Model:

- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
	3/8	10	16	190	161 561 061	0.120	161 561 071	0.120
	1/2	15	16	180	161 561 062	0.120	161 561 072	0.120
	3/4	20	16	380	161 561 063	0.250	161 561 073	0.270
	1	25	16	460	161 561 064	0.276	161 561 074	0.280
	1 1/4	32	16	850	161 561 065	0.490	161 561 075	0.490
	1 1/2	40	16	1080	161 561 066	0.760	161 561 076	0.770
	2	50	16	1670	161 561 067	1.374	161 561 077	1.370
75		65	16	2950	161 561 008	3.160	161 561 018	3.170
	3	80	16	3600	161 561 069	5.070	161 561 079	5.090
	4	100	16	4150	161 561 070	8.010	161 561 080	8.050

D	L	L2	z	closest inch
(mm)	(mm)	(mm)	(mm)	(inch)
50	92	56	60	
50	95	56	60	
58	110	65	69	
68	123	71	75	
84	146	85	89	
97	157	89	97	
124	183	101	110	
166	233	136	144	2 1/2
200	254	141	151	
238	301	164	174	

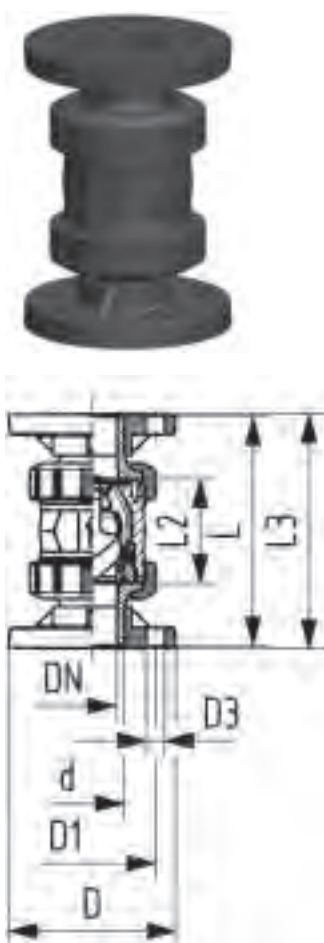


Check valve type 561 PVC-U With solvent cement sockets JIS

Model:

- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
½	15	16	180	161 561 302	0.130	50	95	56	64
¾	20	16	380	161 561 303	0.250	58	110	65	72
1	25	16	460	161 561 304	0.290	68	123	71	79
1 ¼	32	16	850	161 561 305	0.510	84	146	85	94
1 ½	40	16	1080	161 561 306	0.750	97	157	89	95
2	50	16	1670	161 561 307	1.330	124	183	101	107
2 ½	65	16	2950	161 561 308	3.160	166	233	136	144
3	80	16	3600	161 561 309	5.040	200	254	141	151
4	100	16	4150	161 561 310	8.130	238	301	164	174



Check valve type 561 PVC-U With fixed flanges JIS

Model:

- Sealing at a minimum water column of 2 m
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360

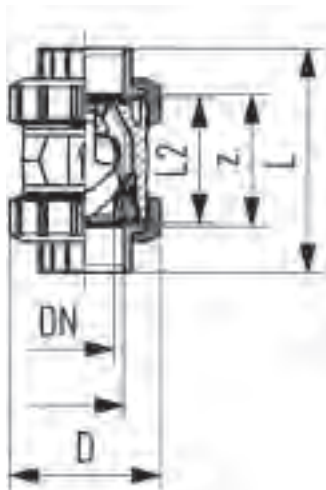
Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)
¾	20	16	380	161 561 323	0.520	100	75	15	170	65	172
1	25	16	460	161 561 324	0.670	130	90	19	190	71	187
1 ¼	32	16	850	161 561 325	1.100	140	100	19	190	85	190
1 ½	40	16	1080	161 561 326	1.490	140	105	19	210	89	212
2	50	16	1670	161 561 327	2.430	160	120	19	240	101	234



Check valve type 562 PVC-U
With solvent cement sockets Inch BS

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
	3/8	10	16	190	161 562 061	0.120	161 562 071	0.120
	1/2	15	16	180	161 562 062	0.120	161 562 072	0.120
	3/4	20	16	380	161 562 063	0.250	161 562 073	0.270
	1	25	16	460	161 562 064	0.280	161 562 074	0.280
	1 1/4	32	16	850	161 562 065	0.490	161 562 075	0.490
	1 1/2	40	16	1080	161 562 066	0.760	161 562 076	0.770
	2	50	16	1670	161 562 067	1.378	161 562 077	1.370
75		65	16	2950	161 562 008	3.160	161 562 018	3.170
	3	80	16	3600	161 562 069	5.070	161 562 079	5.090
	4	100	16	4150	161 562 070	8.010	161 562 080	8.050

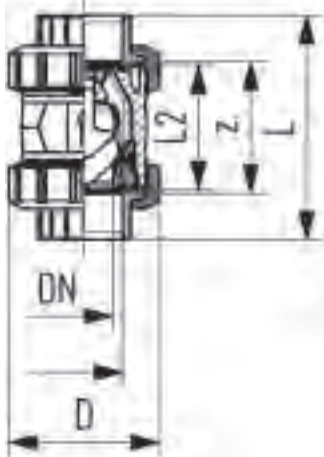
D	L	L2	z	closest inch
(mm)	(mm)	(mm)	(mm)	(inch)
50	92	56	60	
50	95	56	60	
58	110	65	69	
68	123	71	75	
84	146	85	89	
97	157	89	97	
124	183	101	110	
166	233	136	144	2 1/2
200	254	141	151	
238	301	164	174	



Check valve type 562 PVC-U
With solvent cement sockets JIS

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



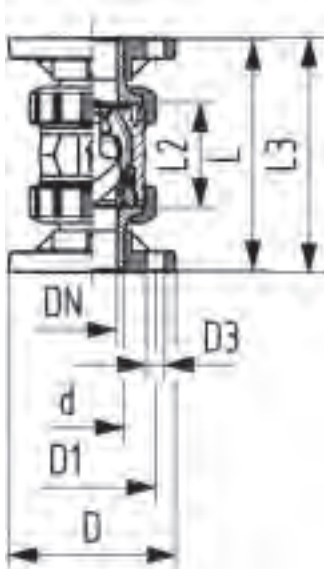
Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)
½	15	16	180	161 562 302	0.130	50	95	56	64
¾	20	16	380	161 562 303	0.250	58	110	65	72
1	25	16	460	161 562 304	0.290	68	123	71	79
1 ¼	32	16	850	161 562 305	0.510	84	146	85	94
1 ½	40	16	1080	161 562 306	0.750	97	157	89	95
2	50	16	1670	161 562 307	1.330	124	183	101	107
2 ½	65	16	2950	161 562 308	3.160	166	233	136	144
3	80	16	3600	161 562 309	5.040	200	254	141	151
4	100	16	4150	161 562 310	8.130	238	301	164	174



Check valve type 562 PVC-U
With fixed flanges JIS

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D3 (mm)	L (mm)	L2 (mm)	L3 (mm)
¾	20	16	380	161 562 323	0.520	100	75	15	170	65	172
1	25	16	460	161 562 324	0.670	130	90	19	190	71	187
1 ¼	32	16	850	161 562 325	1.100	140	100	19	190	85	190
1 ½	40	16	1080	161 562 326	1.490	140	105	19	210	89	212
2	50	16	1670	161 562 327	2.430	160	120	19	240	101	234

Angle seat valves



Angle seat valve type 300 PVC-U
Unions with solvent cement sockets JIS

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	PE Code	Weight (kg)	PTFE Code	Weight (kg)
3/8	15	10	95	161 300 716	0.335	161 300 741	0.340
3/4	20	10	180	161 300 717	0.380	161 300 742	0.385
1	25	10	327	161 300 718	0.565	161 300 743	0.575
1 1/4	32	10	484	161 300 719	0.844	161 300 744	0.920
1 1/2	40	10	725	161 300 720	1.355	161 300 745	1.050
2	50	10	1130	161 300 721	2.191	161 300 746	1.600

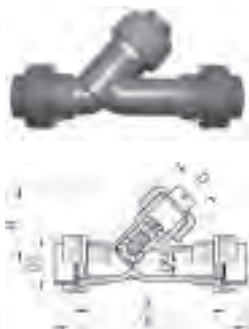
Size (inch)	D (mm)	D2 (mm)	L (mm)	L1 (mm)	H max. (mm)
3/8	53	63	194	162	126
3/4	53	63	208	170	140
1	60	80	224	180	166
1 1/4	74	80	256	204	191
1 1/2	83	100	290	228	233
2	103	100	342	266	264



Angle seat valve type 300 PVC-U
With fixed flanges JIS

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	PE Code	Weight (kg)	PTFE Code	Weight (kg)
3/8	15	10	95	161 300 766	0.390	161 300 791	0.385
3/4	20	10	180	161 300 767	0.520	161 300 792	0.525
1	25	10	327	161 300 768	0.810	161 300 793	0.810
1 1/4	32	10	484	161 300 769	1.220	161 300 794	1.240
1 1/2	40	10	725	161 300 770	1.740	161 300 795	1.770
2	50	10	1130	161 300 771	2.515	161 300 796	2.387

Size (inch)	D (mm)	D1 (mm)	D2 (mm)	L (mm)	H max. (mm)
3/8	95	70	63	130	126
3/4	100	75	63	150	140
1	125	90	80	160	166
1 1/4	135	100	80	180	191
1 1/2	140	105	100	200	233
2	155	120	100	230	261

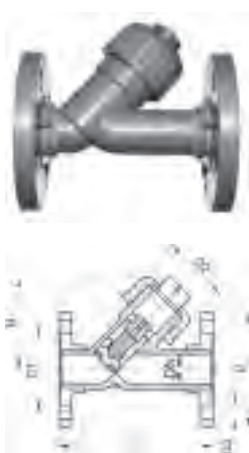


Angle seat check valve type 303 PVC-U Unions with solvent cement sockets JIS

Model:

- For horizontal or vertical installation
- Leakproof even at minimum pressure
- Specific gravity of piston approx. 2 kg/dm³

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	L (mm)	z (mm)
1/2	15	10	95	161 303 102	0.300	43	53	65	194	162
3/4	20	10	180	161 303 103	0.286	47	53	75	208	170
1	25	10	327	161 303 104	0.457	56	53	90	224	180
1 1/4	32	10	484	161 303 105	0.833	64	74	102	256	204
1 1/2	40	10	725	161 303 106	1.300	82	83	123	290	228
2	50	10	1130	161 303 107	2.205	95	103	144	342	266



Angle seat check valve type 303 PVC-U With fixed flanges JIS

Model:

- For horizontal or vertical installation
- Leakproof even at minimum pressure
- Specific gravity of piston approx. 2 kg/dm³

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	L (mm)
1/2	15	10	95	161 303 117	0.330	95	70	48	15	65	130
3/4	20	10	180	161 303 118	0.450	100	75	54	15	75	150
1	25	10	327	161 303 119	0.780	125	90	62	19	90	160
1 1/4	32	10	484	161 303 120	1.140	135	100	71	19	102	180
1 1/2	40	10	725	161 303 121	1.650	140	105	88	19	123	200
2	50	10	1130	161 303 122	2.256	155	120	103	19	144	230
2 1/2	65	10	1700	161 303 123	3.750	185	140	106	19	186	290
3	80	10	2500	161 303 124	5.070	200	150	120	19	204	310

Strainers



Line strainer type 305 PVC-U
Transparent body with solvent cement unions JIS

Model:

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens

Cylindrical screens must be ordered separately

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	H (mm)	L (mm)	L1 (mm)
½	15	10	35	192 305 702	0.271	43	53	65	194	164
¾	20	10	64	192 305 703	0.615	47	53	76	208	170
1	25	10	90	192 305 704	0.393	56	60	90	224	180
1 ½	40	10	225	192 305 706	1.000	82	83	123	290	228
2	50	10	370	192 305 707	1.800	95	103	147	342	226



Line strainer type 305 PVC-U
Grey body with fixed flanges JIS

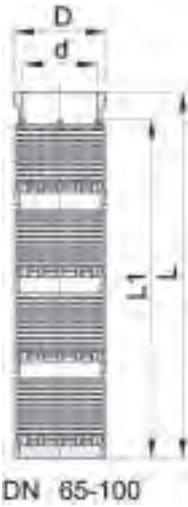
Model:

- Protects valves, pumps, etc. from becoming soiled
- Easy dismantling for cleaning the screens

Cylindrical screens must be ordered separately

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	L (mm)
½	15	10	35	192 305 717	0.320	95	70	43	15	65	130
¾	20	10	64	192 305 718	0.170	100	75	47	15	76	150
1	25	10	90	192 305 719	0.255	125	90	56	19	90	160
1 ¼	32	10	154	192 305 720	0.380	135	100	64	19	102	180
1 ½	40	10	225	192 305 721	1.239	140	105	82	19	123	200
2	50	10	370	192 305 722	1.893	155	120	95	19	147	230
2 ½	65	10	575	192 305 723	3.140	185	140	106	19	188	290
3	80	10	905	192 305 724	4.140	200	150	120	19	205	310

Screen assemblies



Screen assembly type 050 PVC-U
With solvent cement sockets BS/ASTM

- Model:**
- ² Screen with 2 extensions and end plate, solvent cemented
 - Modular extensions can be lengthened as required

d	Size	DN	kv-value	Code	Weight	D	L	L1	L2	L3	lamina width
(mm)	(inch)	(mm)	($\Delta p=1$ bar)		(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
			(l/min)								
90	3	80	14790	161 050 053	0.930	110	312	345	90	103	3

Screen type 050 PVC-U
With solvent cement sockets BS/ASTM

- For Screen Assemblies Type 050, PVC-U, DN 65-100

d	Size	DN	Code	Weight	D	L2	lamina width
(mm)	(inch)	(mm)		(kg)	(mm)	(mm)	(mm)
75	2 ½	65	161 090 024	0.447	110	90	3.0
90	3	80	161 090 016	0.300	110	90	2.5
110	4	100	161 090 017	0.440	125	135	2.5





Screen type 050 PVC-U
With solvent cement sockets metric

- For Screen Assemblies Type 050, PVC-U, DN 65-100

d	Size	DN	Code	Weight	D	L2
(mm)	(inch)	(mm)		(kg)	(mm)	(mm)
75	2 1/2	65	161 090 024	0.447	110	90
90	3	80	161 090 002	0.303	110	90
110	4	100	161 090 003	0.469	125	135



Extention type 050 PVC-U

- For Screen Assemblies Type 050, PVC-U, DN 65-100

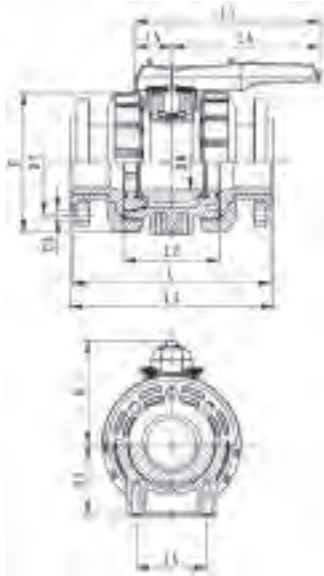
DN-DN	Code	Weight	L3	Inch	d-d
(mm)		(kg)	(mm)	(inch)	(mm)
65 - 100	161 090 019	0.249	103	2 1/2 - 4	75 - 110



Plate type 050 PVC-U

- For Screen Assemblies Type 050, PVC-U, DN 65-100

DN-DN	Code	Weight	D	L	Inch	d-d
(mm)		(kg)	(mm)	(mm)	(inch)	(mm)
65 - 100	161 090 018	0.155	100	16	2 1/2 - 4	75 - 110



Ball valve type 546 PVC-U SF
With mounting inserts
With backing flanges PVC-U metric

Model:

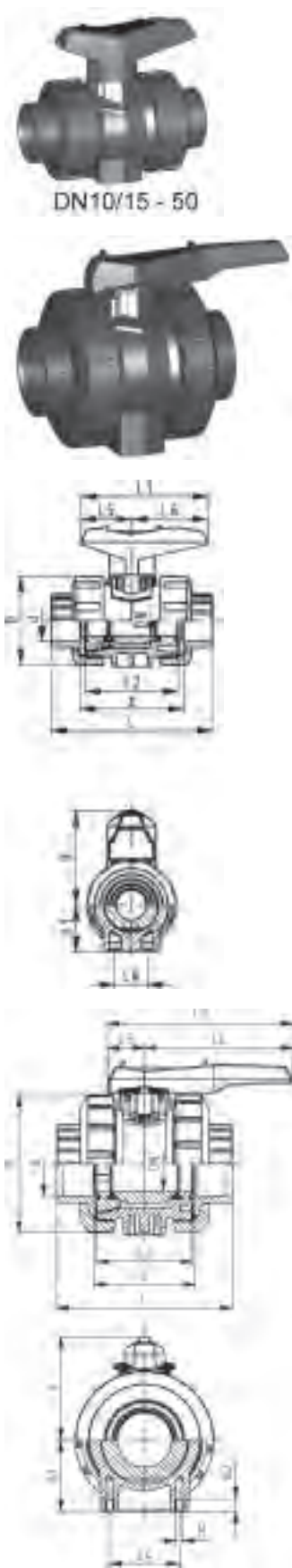
- Silicone free/paint-compatible
- For easy installation and removal
- With PVDF ball seal
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
75	65	10	5000	161 546 128	7.200	161 546 138	7.200
90	80	10	7000	161 546 129	10.600	161 546 139	10.600
110	100	10	11000	161 546 130	16.500	161 546 140	16.500

d	D	D1	D3	H	H1	L	L1	L2	L3	L4	L5	L6	M	closest inch (inch)
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
75	166	145	18	149	85	284	270	136	290	70	64	206	8	2 ½
90	200	160	18	161	105	300	270	141	310	70	64	206	8	3
110	238	180	18	178	123	340	320	164	350	120	64	256	12	4



Ball valve type 546 PVC-U SF
With solvent cement sockets metric

Model:

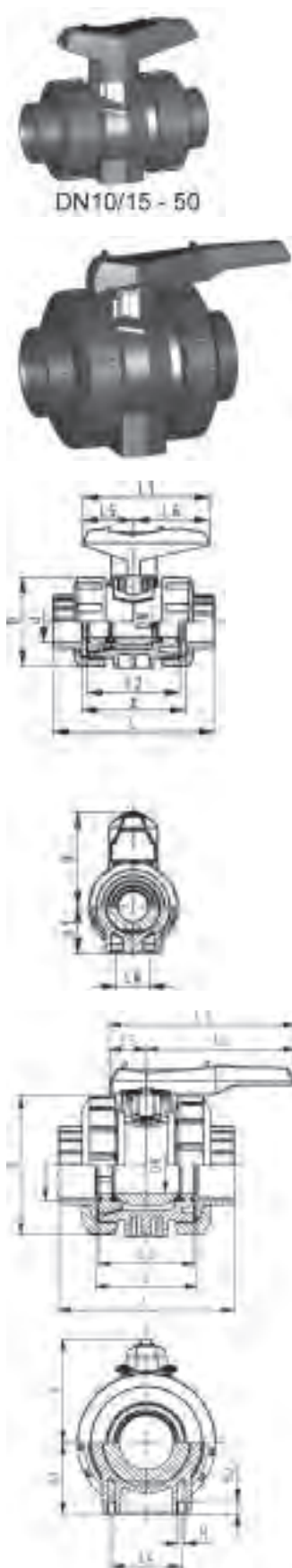
- Silicone free/paint-compatible
- For easy installation and removal
- With PVDF ball seal
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	16	71	161 546 601	0.150	161 546 611	0.150
20	15	16	185	161 546 602	0.150	161 546 612	0.150
25	20	16	350	161 546 603	0.230	161 546 613	0.230
32	25	16	700	161 546 604	0.343	161 546 614	0.330
40	32	16	1000	161 546 605	0.599	161 546 615	0.603
50	40	16	1600	161 546 606	0.800	161 546 616	0.800
63	50	16	3100	161 546 607	1.522	161 546 617	1.460
75	65	16	5000	161 546 608	3.792	161 546 618	4.900
90	80	16	7000	161 546 609	7.400	161 546 619	7.400
110	100	16	11000	161 546 610	11.600	161 546 620	11.600

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)	closest inch (inch)
16	50	57	27	92	77	56	25	32	45	64	¾
20	50	57	27	95	77	56	25	32	45	64	¾
25	58	67	30	110	97	65	25	39	58	72	¾
32	68	73	36	123	97	71	25	39	58	79	1
40	84	90	44	146	128	85	45	54	74	94	1 ¼
50	97	97	51	157	128	89	45	54	74	95	1 ½
63	124	116	64	183	152	101	45	66	87	107	2
75	166	149	85	233	270	136	70	64	206	144	2 ½
90	200	161	105	254	270	141	70	64	206	151	3
110	238	178	123	301	320	164	120	64	256	174	4



Ball valve type 546 PVC-U OF
With mounting inserts
With solvent cement sockets JIS

Model:

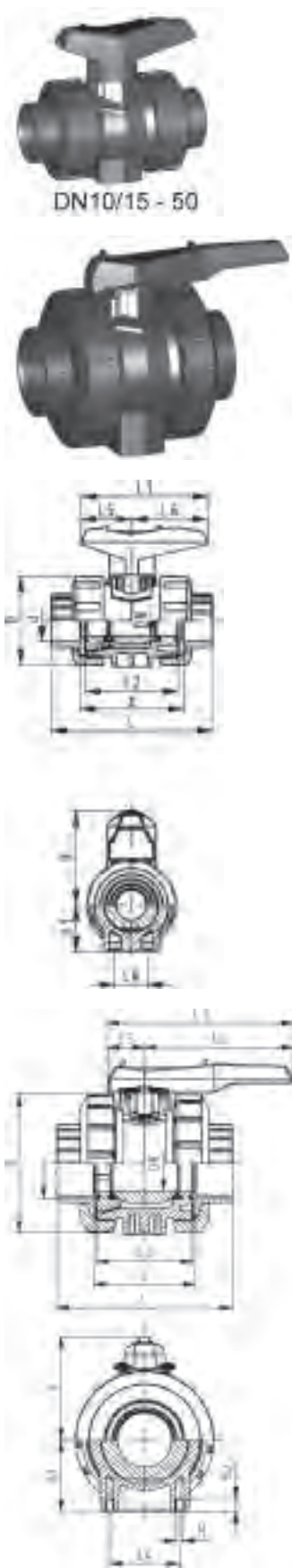
- Oil free
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (L/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	16	185	161 546 902	0.155	161 546 912	0.156
¾	20	16	350	161 546 903	0.239	161 546 913	0.242
1	25	16	700	161 546 904	0.345	161 546 914	0.330
1 ¼	32	16	1000	161 546 905	0.100	161 546 915	0.622
1 ½	40	16	1600	161 546 906	0.850	161 546 916	0.867
2	50	16	3100	161 546 907	1.576	161 546 917	1.592
2 ½	65	16	5000	161 546 908	4.333	161 546 918	4.900
3	80	16	7000	161 546 909	7.400	161 546 919	6.273
4	100	16	11000	161 546 910	11.500	161 546 920	11.500

Size (inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)
½	50	57	27	12	95	77	56	25	32	45	M6	64
¾	58	67	30	12	110	97	65	25	39	58	M6	72
1	68	73	36	12	123	97	71	25	39	58	M6	79
1 ¼	84	90	44	15	146	128	85	45	54	74	M8	94
1 ½	97	97	51	15	157	128	89	45	54	74	M8	95
2	124	116	64	15	183	152	101	45	66	87	M8	107
2 ½	166	149	85	15	233	270	136	70	64	206	M8	144
3	200	161	105	15	254	270	141	70	64	206	M8	151
4	238	178	123	22	301	320	164	120	64	256	M12	174



Ball valve type 546 PVC-U OF **With solvent cement sockets JIS**

Model:

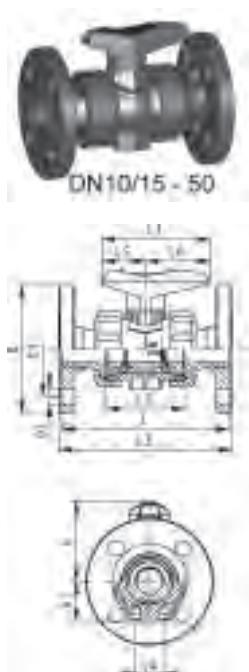
- Oil free
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	16	185	161 546 502	0.149	161 546 512	0.150
¾	20	16	350	161 546 503	0.233	161 546 513	0.235
1	25	16	700	161 546 504	0.342	161 546 514	0.330
1 ¼	32	16	1000	161 546 505	0.610	161 546 515	0.610
1 ½	40	16	1600	161 546 506	0.846	161 546 516	0.815
2	50	16	3100	161 546 507	1.495	161 546 517	1.578
2 ½	65	16	5000	161 546 508	4.900	161 546 518	3.559
3	80	16	7000	161 546 509	7.400	161 546 519	7.400
4	100	16	11000	161 546 510	11.500	161 546 520	11.500

Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)
½	50	57	27	95	77	56	25	32	45	64
¾	58	67	30	110	97	65	25	39	58	72
1	68	73	36	123	97	71	25	39	58	79
1 ¼	84	90	44	146	128	85	45	54	74	94
1 ½	97	97	51	157	128	89	45	54	74	95
2	124	116	64	183	152	101	45	66	87	107
2 ½	166	149	85	233	270	136	70	64	206	144
3	200	161	105	254	270	141	70	64	206	151
4	238	178	123	301	320	164	120	64	256	174



Ball valve type 546 PVC-U OF With fixed flanges PVC-U JIS

Model:

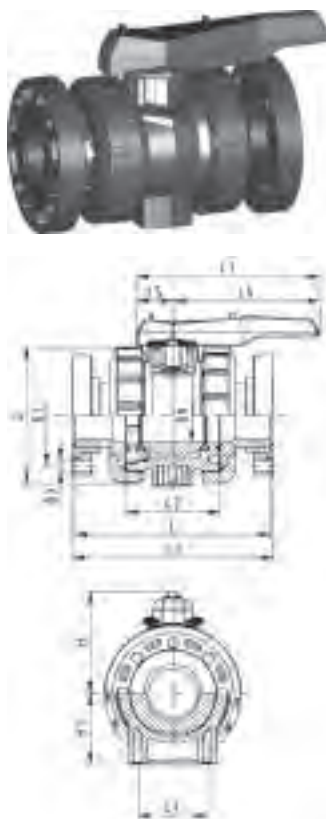
- Oil free
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	16	185	161 546 922	0.415	161 546 932	0.415
¾	20	16	350	161 546 923	0.535	161 546 933	0.535
1	25	16	700	161 546 924	0.825	161 546 934	0.825
1 ¼	32	16	1000	161 546 925	1.385	161 546 935	1.385
1 ½	40	16	1600	161 546 926	1.620	161 546 936	1.620
2	50	16	3100	161 546 927	2.630	161 546 937	2.630

Size (inch)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	T (mm)
½	95	70	15	57	27	77	56	143	25	32	45	14
¾	100	75	15	67	30	97	65	172	25	39	58	14
1	125	90	15	73	36	97	71	187	25	39	58	14
1 ¼	135	100	19	90	44	128	85	190	45	54	74	17
1 ½	140	105	19	97	51	128	89	212	45	54	74	18
2	155	120	19	116	64	152	101	234	45	66	87	20



Ball valve type 546 PVC-U OF With backing flanges PVC-U JIS

Model:

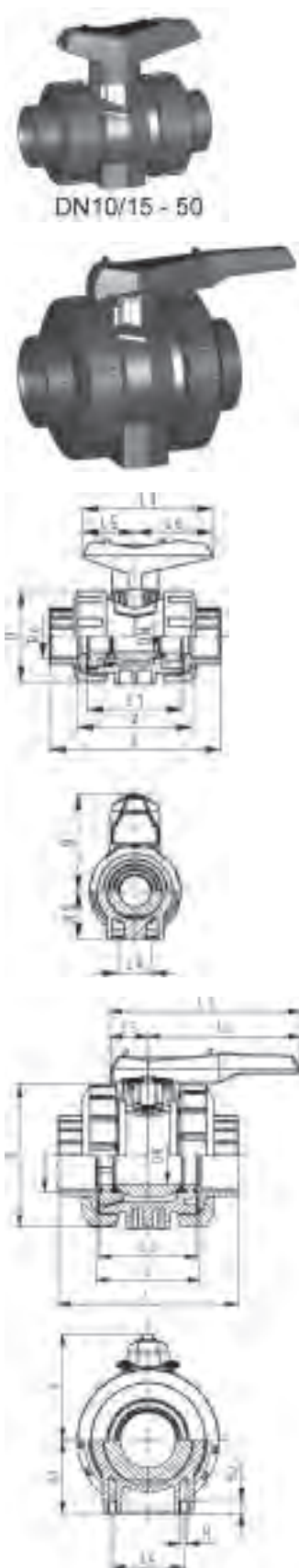
- Oil free
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimensions: JIS B 2220, 10K

Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
2 ½	65	10	5000	161 546 468	5.600	161 546 478	5.600
3	80	10	7000	161 546 469	8.400	161 546 479	8.400
4	100	10	11000	161 546 470	13.100	161 546 480	13.100

Size (inch)	D (mm)	D1 (mm)	D3 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)
2 ½	166	140	19	149	85	284	270	136	290	70	64	206
3	200	150	19	161	105	300	270	141	310	70	64	206
4	238	175	19	178	123	340	320	164	350	120	64	256



Ball valve type 546 PVC-U OF **With threaded sockets Rc**

Model:

- Oil free
- For easy installation and removal
- Ball seals PTFE
- Without mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)

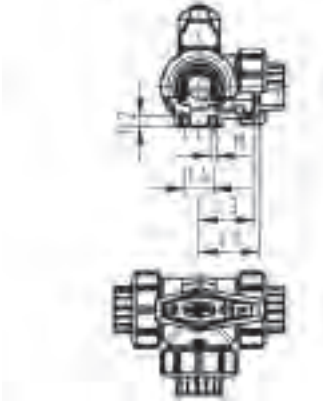
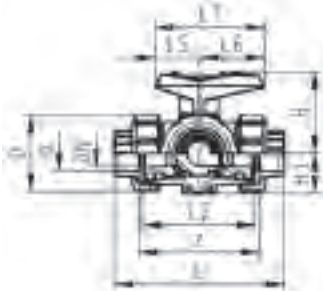
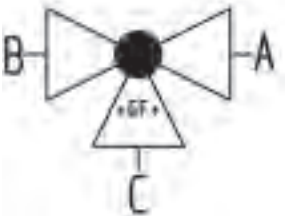
Option:

- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches

Rc	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10	185	161 546 522	0.155	161 546 532	0.160
¾	20	10	350	161 546 523	0.240	161 546 533	0.240
1	25	10	700	161 546 524	0.345	161 546 534	0.345
1 ¼	32	10	1000	161 546 525	0.610	161 546 535	0.610
1 ½	40	10	1600	161 546 526	0.835	161 546 536	0.835
2	50	10	3100	161 546 527	1.520	161 546 537	1.520
2 ½	65	10	5000	161 546 528	5.000	161 546 538	5.000
3	80	10	7000	161 546 529	7.500	161 546 539	7.500
4	100	10	11000	161 546 530	11.700	161 546 540	11.700

Rc	D	H	H1	L	L1	L2	L4	L5	L6	z
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
½	50	57	27	100	77	56	25	32	45	66
¾	58	67	30	114	97	65	25	39	58	78
1	68	73	36	127	97	71	25	39	58	85
1 ¼	84	90	44	146	128	85	45	54	74	98
1 ½	97	97	51	152	128	89	45	54	74	104
2	124	116	64	177	152	101	45	66	87	119
2 ½	166	149	85	233	270	136	70	64	206	144
3	200	161	105	254	270	141	70	64	206	151
4	238	178	123	301	320	164	120	64	256	174

3-Way ball valves type 543



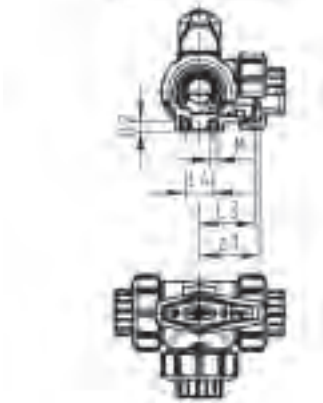
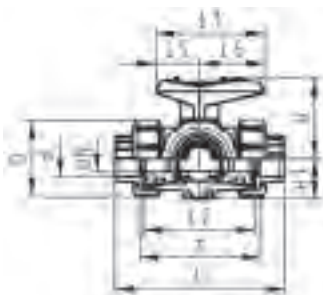
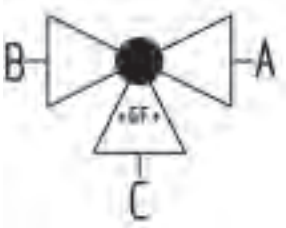
3-Way ball valve type 543 PVC-U SF
Horizontal/L-port
With solvent cement sockets metric

Model:

- Silicone free/paint-compatible
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PVDF
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	50	161 543 141	0.245	161 543 151	0.245
20	15	10	75	161 543 142	0.251	161 543 152	0.251
25	20	10	150	161 543 143	0.343	161 543 153	0.361
32	25	10	280	161 543 144	0.524	161 543 154	0.551
40	32	10	480	161 543 145	0.938	161 543 155	0.938
50	40	10	620	161 543 146	1.390	161 543 156	1.390
63	50	10	1230	161 543 147	2.705	161 543 157	2.705

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
															(inch)
16	50	57	28	8	109	77	73	36	25	32	45	6	81	40	$\frac{3}{8}$
20	50	57	28	8	112	77	73	36	25	32	45	6	81	40	$\frac{1}{2}$
25	58	67	32	8	131	97	86	43	25	39	58	6	94	47	$\frac{3}{4}$
32	68	73	36	8	151	97	99	50	25	39	58	6	107	54	1
40	84	90	45	9	181	128	120	60	45	54	74	8	130	65	1 $\frac{1}{4}$
50	97	97	51	9	205	128	137	69	45	54	74	8	143	72	1 $\frac{1}{2}$
63	124	116	65	9	261	152	179	89	45	66	87	8	185	92	2



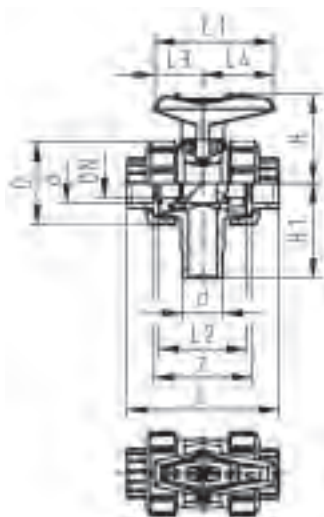
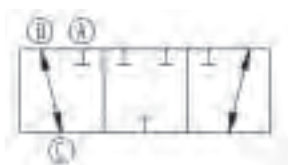
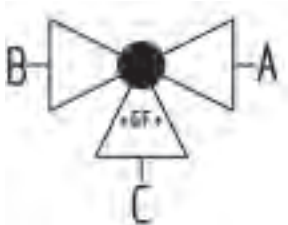
3-Way ball valve type 543 PVC-U SF Horizontal/T-port With solvent cement sockets metric

Model:

- Silicone free/paint-compatible
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PVDF
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	140	161 543 341	0.244	161 543 351	0.244
20	15	10	200	161 543 342	0.232	161 543 352	0.250
25	20	10	470	161 543 343	0.339	161 543 353	0.359
32	25	10	793	161 543 344	0.544	161 543 354	0.544
40	32	10	1290	161 543 345	0.891	161 543 355	0.927
50	40	10	1910	161 543 346	1.369	161 543 356	1.369
63	50	10	3100	161 543 347	2.660	161 543 357	2.660

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
16	50	57	28	8	109	77	73	36	25	32	45	6	81	40	$\frac{3}{8}$
20	50	57	28	8	112	77	73	36	25	32	45	6	81	40	$\frac{1}{2}$
25	58	67	32	8	131	97	86	43	25	39	58	6	94	47	$\frac{3}{4}$
32	68	73	36	8	151	97	99	50	25	39	58	6	107	54	1
40	84	90	45	9	181	128	120	60	45	54	74	8	130	65	1 $\frac{1}{4}$
50	97	97	51	9	205	128	137	69	45	54	74	8	143	72	1 $\frac{1}{2}$
63	124	116	65	9	261	152	179	89	45	66	87	8	185	92	2



3-Way ball valve type 543 PVC-U SF

Vertical/L-port

With solvent cement sockets metric

Model:

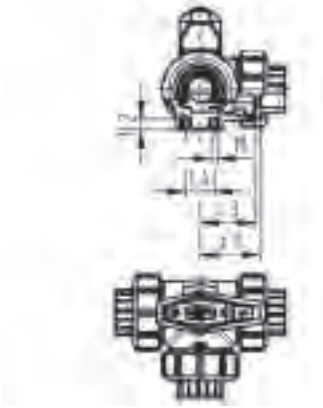
- Silicone free/paint-compatible
- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PVDF
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

Mode of action:

- For interconnection of two inputs

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	49	161 543 781	0.156	161 543 791	0.162
20	15	10	77	161 543 782	0.166	161 543 792	0.166
25	20	10	146	161 543 783	0.255	161 543 793	0.255
32	25	10	260	161 543 784	0.372	161 543 794	0.372
40	32	10	437	161 543 785	0.622	161 543 795	0.622
50	40	10	667	161 543 786	0.886	161 543 796	0.886
63	50	10	1293	161 543 787	1.617	161 543 797	1.617

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	z (mm)	closest inch (inch)
16	50	57	62	92	77	56	32	45	64	$\frac{3}{8}$
20	50	57	62	95	77	56	32	45	64	$\frac{1}{2}$
25	58	67	72	111	97	66	39	58	74	$\frac{3}{4}$
32	68	73	77	123	97	71	39	58	79	1
40	84	90	87	146	128	85	54	74	95	1 $\frac{1}{4}$
50	97	97	97	157	128	89	54	74	95	1 $\frac{1}{2}$
63	124	116	112	183	152	101	66	87	107	2

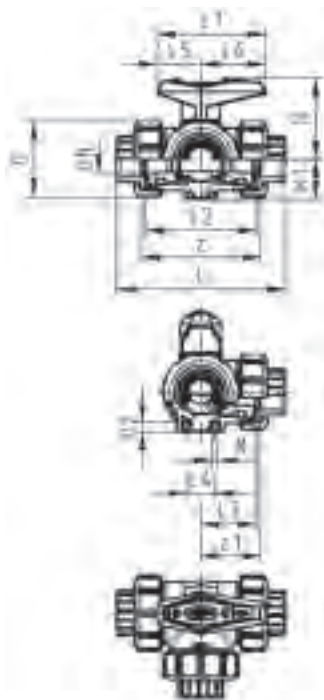




3-Way ball valve type 543 PVC-U OF
Horizontal/T-port
With solvent cement sockets JIS

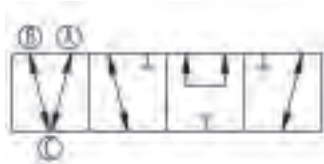
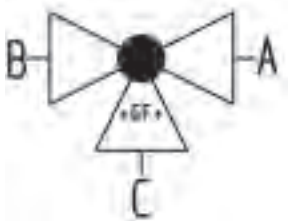
Model:

- Oil free
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme



Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10	200	161 543 582	0.250	161 543 592	0.250
¾	20	10	470	161 543 583	0.359	161 543 593	0.359
1	25	10	793	161 543 584	0.523	161 543 594	0.544
1 ¼	32	10	1290	161 543 585	0.927	161 543 595	0.927
1 ½	40	10	1910	161 543 586	1.369	161 543 596	1.369
2	50	10	3100	161 543 587	2.683	161 543 597	2.660

Size	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	M	z	z1
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	50	57	28	8	112	77	73	36	25	32	45	6	81	40
¾	58	67	32	8	131	97	86	43	25	39	58	6	94	47
1	68	73	36	8	151	97	99	50	25	39	58	6	107	54
1 ¼	84	90	45	9	181	128	120	60	45	54	74	8	130	65
1 ½	97	97	51	9	205	128	137	69	45	54	74	8	143	72
2	124	116	65	9	261	152	179	89	45	66	87	8	185	92





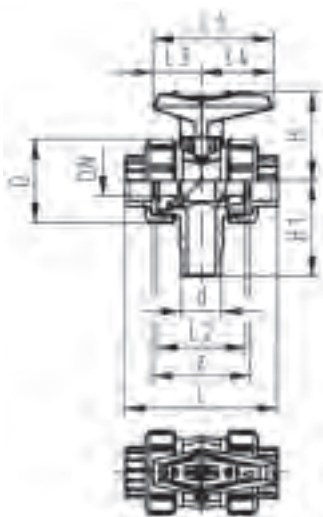
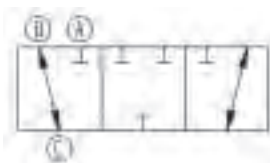
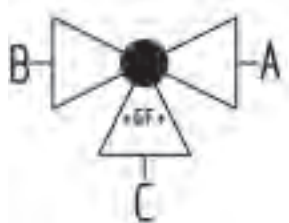
3-Way ball valve type 543 PVC-U OF
Vertical/L-port
With solvent cement sockets JIS

Model:

- Oil free
- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

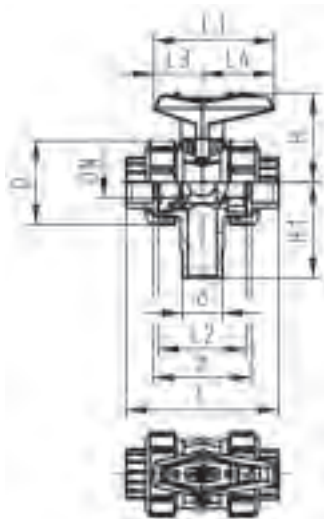
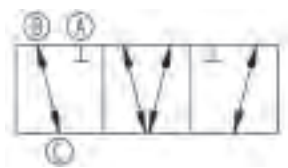
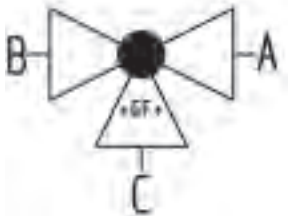
Mode of action:

- For interconnection of two inputs



Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	77	161 543 802	0.166	161 543 812	0.166
¾	20	10	146	161 543 803	0.255	161 543 813	0.255
1	25	10	260	161 543 804	0.372	161 543 814	0.372
1 ¼	32	10	437	161 543 805	0.622	161 543 815	0.622
1 ½	40	10	667	161 543 806	0.886	161 543 816	0.886
2	50	10	1293	161 543 807	1.617	161 543 817	1.617

Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	z (mm)
½	50	57	62	95	77	56	32	45	64
¾	58	67	72	111	97	66	39	58	74
1	68	73	77	123	97	71	39	58	79
1 ¼	84	90	87	146	128	85	54	74	95
1 ½	97	97	97	157	128	89	54	74	95
2	124	116	112	183	152	101	66	87	107



3-Way ball valve type 543 PVC-U OF

Vertical diverter ball

With solvent cement sockets JIS

Model:

- Oil free
- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
1/2	15	10	77	161 543 982	0.165	161 543 992	0.165
3/4	20	10	146	161 543 983	0.243	161 543 993	0.253
1	25	10	260	161 543 984	0.354	161 543 994	0.365
1 1/4	32	10	437	161 543 985	0.611	161 543 995	0.611
1 1/2	40	10	667	161 543 986	0.880	161 543 996	0.865
2	50	10	1293	161 543 987	1.604	161 543 997	1.572

Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	z (mm)
1/2	50	57	62	95	77	56	32	45	64
3/4	58	67	72	111	97	66	39	58	74
1	68	73	77	123	97	71	39	58	79
1 1/4	84	90	87	146	128	85	54	74	95
1 1/2	97	97	97	157	128	89	54	74	95
2	124	116	112	183	152	101	66	87	107

Metering ball valves type 523



Metering ball valve type 523 PVC-U SF
With mounting inserts
With solvent cement sockets metric

Model:

- Silicone free/paint-compatible
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PVDF
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

- Other materials on demand

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	11	161 523 001	0.170	161 523 011	0.170
20	15	10	20	161 523 002	0.170	161 523 012	0.170

d	D	H	H1	L	L1	L2	L4	L5	L6	z	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
16	50	68	27	92	77	56	25	32	45	64	$\frac{3}{8}$
20	50	68	27	95	77	56	25	32	45	64	$\frac{1}{2}$



Metering ball valve type 523 PVC-U SF
With mounting inserts
With solvent cement spigots metric

Model:

- Silicone free/paint-compatible
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PVDF
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

- Other materials on demand

d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	10	11	161 523 041	0.170	161 523 051	0.170
20	15	10	20	161 523 042	0.170	161 523 052	0.170

d	D	H	H1	L	L1	L2	L3	L4	L5	L6	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(inch)
16	50	68	27	114	77	56		25	32	45	$\frac{3}{8}$
20	50	68	27	124	77	56	130	25	32	45	$\frac{1}{2}$



Metering ball valve type 523 PVC-U OF
With mounting inserts
With solvent cement sockets JIS

Model:

- Oil free
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

- Other materials on demand

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
½	15	10	20	161 523 582	0.170	161 523 592	0.170

Size (inch)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	z (mm)
½	50	68	27	95	77	56	25	32	45	64

Diaphragm valves



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

Model:

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

Option:

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

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
16	10	10	125	161 514 021	0.398	161 514 071	0.408
20	15	10	125	161 514 022	0.299	161 514 072	0.408
25	20	10	271	161 514 023	0.527	161 514 073	0.538
32	25	10	481	161 514 024	1.161	161 514 074	1.181
40	32	10	759	161 514 025	0.945	161 514 075	1.447
50	40	10	1263	161 514 026	2.516	161 514 076	2.546
63	50	10	1728	161 514 027	3.385	161 514 077	3.413

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
16	65	65	43	73	14	12	124	25	M6	96	7	$\frac{3}{8}$
20	65	65	43	73	14	12	128	25	M6	96	7	$\frac{1}{2}$
25	80	65	51	81	18	12	152	25	M6	114	10	$\frac{3}{4}$
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 $\frac{1}{4}$
50	117	135	83	148	32	15	222	45	M8	160	19	1 $\frac{1}{2}$
63	144	135	100	166	39	15	266	45	M8	190	25	2



Diaphragm valve type 514 PVC-U SF With solvent cement sockets BS

Model:

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

Option:

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

Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
½	15	10	125	161 514 522	0.396	161 514 572	0.406
¾	20	10	271	161 514 523	0.524	161 514 573	0.536
1	25	10	481	161 514 524	1.159	161 514 574	1.179
1 ¼	32	10	759	161 514 525	1.419	161 514 575	1.439
1 ½	40	10	1263	161 514 526	2.528	161 514 576	2.558
2	50	10	1728	161 514 527	3.409	161 514 577	3.437

Size (inch)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)
½	65	65	43	73	14	12	141	25	M6	96	7
¾	80	65	51	81	18	12	165	25	M6	114	10
1	88	87	58	107	22	12	179	25	M6	122	13
1 ¼	101	87	72	115	26	15	204	45	M8	140	15
1 ½	117	135	83	148	32	15	230	45	M8	160	19
2	144	135	100	166	39	15	268	45	M8	190	25



Diaphragm valve type 514 PVC-U SF With threaded sockets Rp

Model:

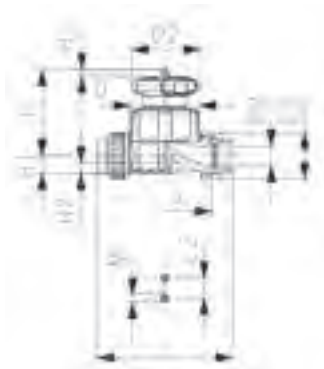
- Silicone free/paint-compatible
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

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

Rp	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
½	15	10	125	161 514 422	0.400	161 514 472	0.410
¾	20	10	271	161 514 423	0.523	161 514 473	0.534
1	25	10	481	161 514 424	1.163	161 514 474	1.183
1 ¼	32	10	759	161 514 425	1.429	161 514 475	1.449
1 ½	40	10	1263	161 514 426	2.528	161 514 476	2.558
2	50	10	1728	161 514 427	3.449	161 514 477	3.477

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



Diaphragm valve type 514 PVC-U OF With solvent cement sockets JIS

Model:

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

Option:

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

Size	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(L/min)				
½	15	10	125	161 514 822	0.434	161 514 872	0.548
¾	20	10	271	161 514 823	0.527	161 514 873	0.538
1	25	10	481	161 514 824	0.678	161 514 874	1.183
1 ¼	32	10	759	161 514 825	1.437	161 514 875	1.457
1 ½	40	10	1263	161 514 826	2.558	161 514 876	2.588
2	50	10	1728	161 514 827	3.425	161 514 877	3.453

table continued on the next page



Size	D	D2	D3	H	H1	H2	L	L2	M	z	Lift = Hx
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	80	65	51	81	18	12	152	25	M6	120	10
¾	80	65	51	81	18	12	152	25	M6	114	10
1	88	87	58	107	22	12	166	25	M6	122	13
1 ¼	101	87	72	115	26	15	192	45	M8	140	15
1 ½	117	135	83	148	32	15	222	45	M8	160	19
2	144	135	100	166	39	15	266	45	M8	190	25



Diaphragm valve type 514 PVC-U OF With threaded sockets Rc

Model:

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

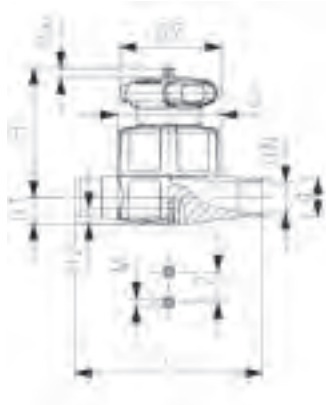
Option:

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



Rc	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
			(l/min)				
½	15	10	125	161 514 922	0.537	161 514 972	0.548
¾	20	10	271	161 514 923	0.529	161 514 973	0.540
1	25	10	481	161 514 924	1.165	161 514 974	1.185
1 ¼	32	10	759	161 514 925	1.433	161 514 975	1.453
1 ½	40	10	1263	161 514 926	2.556	161 514 976	2.586
2	50	10	1728	161 514 927	3.497	161 514 977	3.525

Rc	D	D2	D3	H	H1	H2	L	L2	M	z	Lift = Hx
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)
½	80	65	51	81	18	12	152	25	M6	120	110
¾	80	65	51	81	18	12	152	25	M6	114	10
1	88	87	58	107	22	12	166	25	M6	122	13
1 ¼	101	87	72	115	26	15	192	45	M8	140	15
1 ½	117	135	83	148	32	15	222	45	M8	160	19
2	144	135	100	166	39	15	266	45	M8	190	25



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

Model:

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

Option:

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

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	10	125	161 515 022	0.238	161 515 072	0.345
25	20	10	271	161 515 023	0.444	161 515 073	0.456
32	25	10	481	161 515 024	1.032	161 515 074	1.052
40	32	10	759	161 515 025	1.237	161 515 075	1.257
50	40	10	1263	161 515 026	2.262	161 515 076	2.292
63	50	10	1728	161 515 027	2.057	161 515 077	2.991

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



Diaphragm valve type 517 PVC-U SF With backing flanges PVC-U metric

Model:

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

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	PTFE/EPDM Code	Weight (kg)
20	15	10	125	161 517 022	0.493	161 517 072	0.503
25	20	10	271	161 517 023	0.661	161 517 073	0.672
32	25	10	481	161 517 024	1.344	161 517 074	1.364
40	32	10	759	161 517 025	1.233	161 517 075	1.372
50	40	10	1263	161 517 026	2.868	161 517 076	2.898
63	50	10	1728	161 517 027	2.904	161 517 077	3.817

table continued on the next page



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



Diaphragm valve type 517 PVC-U OF With fixed flanges PVC-U JIS

Model:

- Oil free
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: JIS B2238/39 10K

Option:

- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches



Size	DN	PN	kv-value	EPDM	Weight	PTFE/EPDM	Weight
(inch)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	Code	(kg)
			(L/min)				
½	15	10	125	161 517 922	0.528	161 517 972	0.538
¾	20	10	271	161 517 923	0.626	161 517 973	0.637
1	25	10	481	161 517 924	1.334	161 517 974	1.354
1 ¼	32	10	759	161 517 925	1.745	161 517 975	1.765
1 ½	40	10	1263	161 517 926	2.814	161 517 976	2.844
2	50	10	1728	161 517 927	3.652	161 517 977	3.680

Size	D	D2	D3	D4	D5	H	H1	H2	L	L2	M	Lift = Hx
(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)
½	65	65	95	70	15	73	14	12	110	25	M6	7
¾	80	65	100	75	15	81	18	12	120	25	M6	10
1	88	87	125	90	19	107	22	12	130	25	M6	13
1 ¼	101	87	135	100	19	115	26	15	180	45	M8	15
1 ½	117	135	140	105	19	148	32	15	180	45	M8	19
2	144	135	155	120	19	166	39	15	210	45	M8	25



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

Model:

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

Option:

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

d	Size	DN	PN	kv-value	EPDM	PTFE with	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	EPDM supp.	(kg)
				(l/min)		diaphragm	
						Code	
75	2 ½	65	10	992	161 317 723	161 317 738	4.420
90	3	80	10	1700	161 317 424	161 317 439	9.600
110	4	100	10	2700	161 317 425	161 317 440	13.360
160	6	150	7	6033	161 317 427	161 317 442	29.250

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



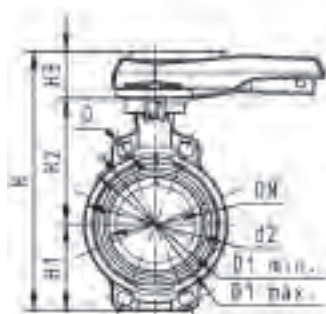
Butterfly valves type 567



Butterfly valve type 567 PVC-U SF
Hand lever with ratchet settings

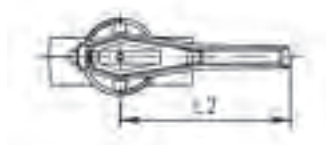
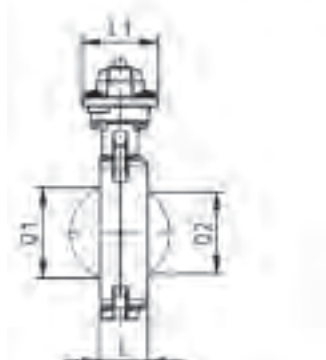
Model:

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



d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	161 567 402	1.040	161 567 422	1.044
75	2 ½	65	10	2200	161 567 403	1.350	161 567 423	1.148
90	3	80	10	3000	161 567 404	1.517	161 567 424	1.315
110	4	100	10	6500	161 567 405	2.528	161 567 425	1.983
140	5	125	10	11500	161 567 406	2.536	161 567 426	3.339
160	6	150	10	16600	161 567 407	3.541	161 567 427	3.564
225	8	200	10	39600	161 567 408	5.513	161 567 428	5.541

d	d2	D	D1	D1	H	H1	H2	H3	L	L1	L2	Q1	Q2
(mm)	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
			(mm)	(mm)									
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	255	88	74
140	187	23	210	216	352	117	181	55	64	106	255	113	97
160	215	24	241	241	373	130	189	55	72	106	255	139	123
225	267	23	290	295	435	158	210	67	73	140	408	178	169





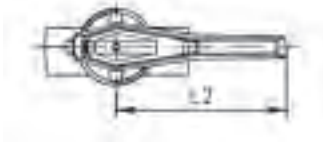
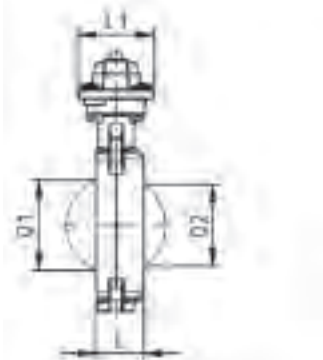
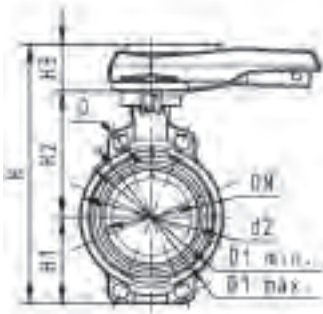
Butterfly valve type 567 PVC-U OF **Hand lever with ratchet settings**

Model:

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

d	Size	DN	PN	kv-value	EPDM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	161 567 502	1.040
75	2 ½	65	10	2200	161 567 503	1.344
90	3	80	10	3000	161 567 504	1.308
110	4	100	10	6500	161 567 505	1.969
140	5	125	10	11500	161 567 506	2.536
160	6	150	10	16600	161 567 507	3.731
225	8	200	10	39600	161 567 508	5.513

d	d2	D	D1	D1	H	H1	H2	H3	L	L1	L2	Q1	Q2
(mm)	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
			(mm)	(mm)									
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	255	88	74
140	187	23	210	216	352	117	181	55	64	106	255	113	97
160	215	24	241	241	373	130	189	55	72	106	255	139	123
225	267	23	290	295	435	158	210	67	73	140	408	178	169



Lugstyle butterfly valves type 578



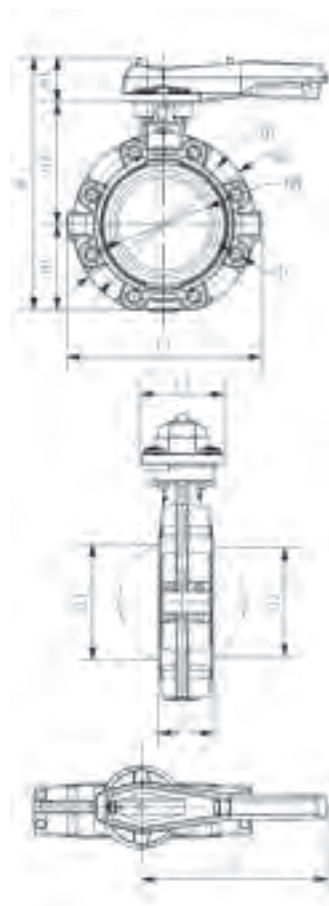
Lugstyle butterfly valve type 578 PVC-U SF
Hand lever with ratchet settings

Model:

- Silicone free/paint-compatible
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Option:

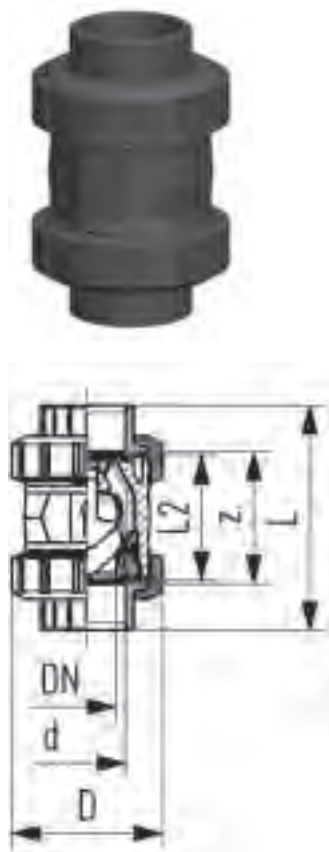
- Optional accessory: Valve-Integrated position feedback with limit switches (limit switches have to be ordered separately)



d	Size	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	161 578 402	1.800	161 578 422	1.800
75	2 ½	65	10	2200	161 578 403	1.895	161 578 423	1.895
90	3	80	10	3000	161 578 404	2.251	161 578 424	2.251
110	4	100	10	6500	161 578 405	3.146	161 578 425	3.146
140	5	125	10	11500	161 578 406	4.660	161 578 426	4.660
160	6	150	10	16600	161 578 407	6.430	161 578 427	6.430
225	8	200	10	39600	161 578 408	8.625	161 578 428	8.625
280	10	250	10	55200	161 578 409	19.528	161 578 429	19.528
315	12	300	10	80000	161 578 410	26.106	161 578 430	26.106

d	d2	D	D1	H	H1	H2	H3	L	L1	L2	L3	Q1	Q2
(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	160	M16	125	265	77	134	54	45	106	205	165	40	
75	180	M16	145	277	83	140	54	46	106	205	182	54	35
90	195	M16	160	289	89	146	54	49	106	205	210	67	50
110	226	M16	180	328	106	167	55	56	106	255	240	88	74
140	258	M16	210	357	121	181	55	64	106	255	272	113	97
160	284	M20	240	377	133	189	55	72	106	255	300	139	123
225	341	M20	295	436	159	210	67	73	140	408	360	178	169
280	412	M20	350	536	205	264	67	113	140	408	440	210	207
315	482	M20	400	586	234	285	67	113	140	408	510	256	253

Cone check valves



Check valve type 561 PVC-U SF With solvent cement sockets metric

Model:

- Sealing at a minimum water column of 2 m
- Silicone free/paint-compatible
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	16	190	161 561 201	0.120	161 561 211	0.120
20	15	16	180	161 561 202	0.130	161 561 212	0.130
25	20	16	380	161 561 203	0.250	161 561 213	0.270
32	25	16	460	161 561 204	0.290	161 561 214	0.290
40	32	16	850	161 561 205	0.510	161 561 215	0.510
50	40	16	1080	161 561 206	0.750	161 561 216	0.750
63	50	16	1670	161 561 207	1.330	161 561 217	1.340
75	65	16	2950	161 561 208	3.160	161 561 218	3.170
90	80	16	3600	161 561 209	5.040	161 561 219	5.060
110	100	16	4150	161 561 210	8.130	161 561 220	8.170

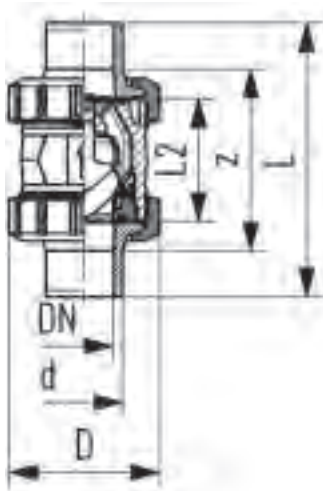
d (mm)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	50	92	56	64	$\frac{3}{8}$
20	50	95	56	64	$\frac{1}{2}$
25	58	110	65	72	$\frac{3}{4}$
32	68	123	71	79	1
40	84	146	85	94	1 $\frac{1}{4}$
50	97	157	89	95	1 $\frac{1}{2}$
63	124	183	101	107	2
75	166	233	136	144	2 $\frac{1}{2}$
90	200	254	141	151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



Check valve type 561 PVC-U SF
With solvent cement spigots metric

Model:

- Sealing at a minimum water column of 2 m
- Silicone free/paint-compatible
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	16	190	161 561 221	0.130	161 561 231	0.130
20	15	16	180	161 561 222	0.130	161 561 232	0.130
25	20	16	380	161 561 223	0.260	161 561 233	0.280
32	25	16	460	161 561 224	0.300	161 561 234	0.310
40	32	16	850	161 561 225	0.520	161 561 235	0.520
50	40	16	1080	161 561 226	0.790	161 561 236	0.790
63	50	16	1670	161 561 227	1.410	161 561 237	1.420
75	65	16	2950	161 561 228	3.310	161 561 238	3.320
90	80	16	3600	161 561 229	5.220	161 561 239	5.250
110	100	16	4150	161 561 230	8.350	161 561 240	8.390

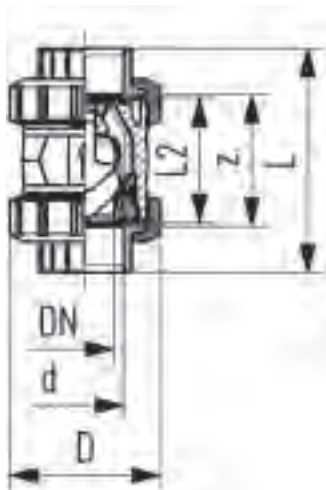
d	D	L	L2	closest
(mm)	(mm)	(mm)	(mm)	inch
				(inch)
16	50	114	56	$\frac{3}{8}$
20	50	124	56	$\frac{1}{2}$
25	58	144	65	$\frac{3}{4}$
32	68	154	71	1
40	84	174	85	1 $\frac{1}{4}$
50	97	194	89	1 $\frac{1}{2}$
63	124	224	101	2
75	166	284	136	2 $\frac{1}{2}$
90	200	300	141	3
110	238	340	164	4



Check valve type 562 PVC-U SF
With solvent cement sockets metric

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Silicone free/paint-compatible
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d	DN	PN	kv-value	EPDM	Weight	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
			(l/min)				
16	10	16	190	161 562 201	0.120	161 562 211	0.120
20	15	16	180	161 562 202	0.130	161 562 212	0.130
25	20	16	380	161 562 203	0.250	161 562 213	0.270
32	25	16	460	161 562 204	0.290	161 562 214	0.290
40	32	16	850	161 562 205	0.510	161 562 215	0.510
50	40	16	1080	161 562 206	0.750	161 562 216	0.750
63	50	16	1670	161 562 207	1.330	161 562 217	1.340
75	65	16	2950	161 562 208	3.160	161 562 218	3.170
90	80	16	3600	161 562 209	5.040	161 562 219	5.060
110	100	16	4150	161 562 210	8.130	161 562 220	8.170

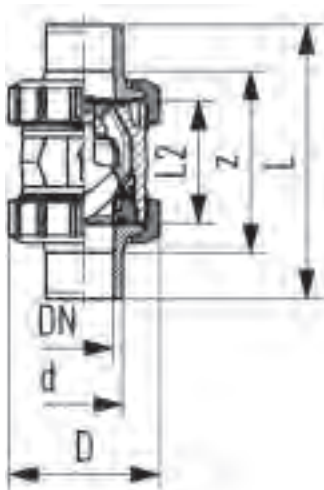
d	D	L	L2	z	closest
(mm)	(mm)	(mm)	(mm)	(mm)	inch
					(inch)
16	50	92	56	64	$\frac{3}{8}$
20	50	95	56	64	$\frac{1}{2}$
25	58	110	65	72	$\frac{3}{4}$
32	68	123	71	79	1
40	84	146	85	94	1 $\frac{1}{4}$
50	97	157	89	95	1 $\frac{1}{2}$
63	124	183	101	107	2
75	166	233	136	144	2 $\frac{1}{2}$
90	200	254	141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



Check valve type 562 PVC-U SF
With solvent cement spigots metric

Model:

- For horizontal or vertical installation
- Sealing at a minimum water column of 1 m
- Silicone free/paint-compatible
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials, see spare parts
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts **not** compatible with type 360
- New DN65-DN100



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	16	190	161 562 221	0.130	161 562 231	0.130
20	15	16	180	161 562 222	0.130	161 562 232	0.130
25	20	16	380	161 562 223	0.260	161 562 233	0.280
32	25	16	460	161 562 224	0.300	161 562 234	0.310
40	32	16	850	161 562 225	0.520	161 562 235	0.520
50	40	16	1080	161 562 226	0.790	161 562 236	0.790
63	50	16	1670	161 562 227	1.410	161 562 237	1.420
75	65	16	2950	161 562 228	3.310	161 562 238	3.320
90	80	16	3600	161 562 229	5.220	161 562 239	5.250
110	100	16	4150	161 562 230	8.350	161 562 240	8.390

d (mm)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	50	114	56	$\frac{3}{8}$
20	50	124	56	$\frac{1}{2}$
25	58	144	65	$\frac{3}{4}$
32	68	154	71	1
40	84	174	85	1 $\frac{1}{4}$
50	97	194	89	1 $\frac{1}{2}$
63	124	224	101	2
75	166	284	136	2 $\frac{1}{2}$
90	200	300	141	3
110	238	340	164	4

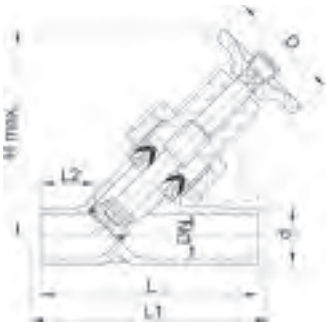
Angle seat valves



Angle seat valve type 300 PVC-U SF
With solvent cement spigots metric

Model:

- For horizontal or vertical installation
- Silicone free/paint-compatible
- Overall length EN 558



d	DN	PN	kv-value	PE	Weight	D	L	L1	L2	closest	H max.
(mm)	(mm)	(bar)	(Δp=1 bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)	inch	(mm)
			(l/min)							(inch)	
16	10	10	41	161 300 800	0.125	50	114	120	24	3⁄8	105
20	15	10	95	161 300 801	0.180	63	124	130	28	1⁄2	126
25	20	10	180	161 300 802	0.250	63	144	150	37	3⁄4	140
32	25	10	327	161 300 803	2.600	80	154	160	37	1	166
40	32	10	484	161 300 804	0.580	80	174	180	44	1 1⁄4	191
50	40	10	725	161 300 805	1.005	100	194	200	48	1 1⁄2	233
63	50	10	1130	161 300 806	0.944	100	224	230	60	2	264
75	65	10	1700	161 300 807	2.610	160	284	290	74	2 1⁄2	335
90	80	10	2500	161 300 808	3.945	200	300	310	85	3	390



Angle seat check valve type 303 PVC-U SF **With solvent cement spigots metric**

Model:

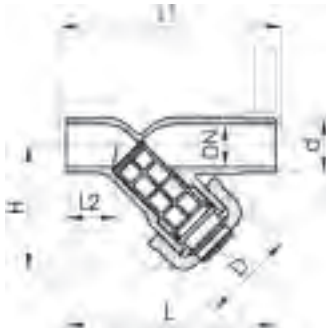
- For horizontal or vertical installation
- Leakproof even at minimum pressure
- Silicone free/paint-compatible
- Overall length EN 558



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
16	10	10	41	161 303 015	0.094	161 303 040	0.094
20	15	10	95	161 303 016	0.139	161 303 041	0.132
25	20	10	180	161 303 017	0.200	161 303 042	0.200
32	25	10	327	161 303 018	0.323	161 303 043	0.323
40	32	10	484	161 303 019	0.498	161 303 044	0.498
50	40	10	725	161 303 020	0.860	161 303 045	0.860
63	50	10	1130	161 303 021	1.455	161 303 046	1.455
75	65	10	1700	161 303 022	2.483	161 303 047	2.450
90	80	10	2500	161 303 023	3.511	161 303 048	3.511

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
16	39	58	114	120	24	¾
20	43	65	124	130	28	½
25	47	75	144	150	37	¾
32	56	90	154	160	37	1
40	64	102	174	180	44	1 ¼
50	82	123	194	200	48	1 ½
63	95	144	224	230	60	2
75	92	186	284	290	74	2 ½
90	104	204	300	310	85	3

Strainers



Line strainer type 305 PVC-U SF Transparent body with solvent cement spigots metric

Model:

- Silicone free/paint-compatible
- Overall length EN 558
- With screen PVC-U, perforation $\varnothing$ 0.8 mm

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	EPDM Code	Weight (kg)	FPM Code	Weight (kg)
20	15	10	35	192 305 821	0.101	192 305 831	0.114
25	20	10	63	192 305 822	0.150	192 305 832	0.170
32	25	10	85	192 305 823	0.255	192 305 833	0.229
40	32	10	150	192 305 824	0.386	192 305 834	0.386
50	40	10	225	192 305 825	0.643	192 305 835	0.643
63	50	10	346	192 305 826	0.979	192 305 836	1.033
75	65	10	535	192 305 827	1.835	192 305 837	1.835
90	80	10	750	192 305 828	2.549	192 305 838	2.565

d (mm)	D (mm)	H (mm)	L (mm)	L1 (mm)	L2 (mm)	closest inch (inch)
20	43	65	124	130	28	½
25	47	76	144	150	37	¾
32	56	90	154	160	37	1
40	64	104	174	180	44	1 ¼
50	82	124	194	200	48	1 ½
63	95	148	224	230	60	2
75	106	188	284	290	74	2 ½
90	120	205	300	310	85	3



Lever

d (mm)	Size (inch)	DN (mm)	Standard lever red Code	Standard lever black Code	Multifunctional lever Code
16	¾	10	167 484 088	167 484 076	167 484 100
20	½	15	167 484 088	167 484 076	167 484 100
25	¾	20	167 484 089	167 484 077	167 484 101
32	1	25	167 484 090	167 484 078	167 484 102
40	1 ¼	32	167 484 091	167 484 079	167 484 103
50	1 ½	40	167 484 092	167 484 080	167 484 104
63	2	50	167 484 093	167 484 081	167 484 105
75	2 ½	65	167 484 094	167 484 082	161 486 689
90	3	80	167 484 095	167 484 083	161 486 690
110	4	100	167 484 096	167 484 084	161 486 691



Face seal

Model:

- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FPM Code
16	¾	10	748 410 059	749 410 059
20	½	15	748 410 059	749 410 059
25	¾	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 ¼	32	748 410 062	749 410 062
50	1 ½	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231
75	2 ½	65	748 410 119	749 410 119
90	3	80	748 410 023	749 410 023
110	4	100	748 410 254	749 410 254



Seal set

Model:

- Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d (mm)	Size (inch)	DN (mm)	DN (mm)	EPDM Code	FPM Code
16 - 20	½	15	10 - 15	161 486 400	161 486 410
25	¾	20	20	161 486 401	161 486 411
32	1	25	25	161 486 402	161 486 412
40	1 ¼	32	32	161 486 403	161 486 413
50	1 ½	40	40	161 486 404	161 486 414
63	2	50	50	161 486 405	161 486 415
75	2 ½	65	65	161 486 406	161 486 416
90	3	80	80	161 486 407	161 486 417
110	4	100	100	161 486 408	161 486 418



Ball set

Model:

- Ball seals standard in PTFE
- Ball set consisting of: ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FPM Code
16	3/8	10	161 486 375	161 486 385
25	3/4	20	161 486 376	161 486 386
32	1	25	161 486 377	161 486 387
40	1 1/4	32	161 486 378	161 486 388
50	1 1/2	40	161 486 379	161 486 389
63	2	50	161 486 380	161 486 390
75	2 1/2	65	161 486 381	161 486 391
90	3	80	161 486 382	161 486 392
110	4	100	161 486 383	161 486 393
20	1/2	15	161 486 375	161 486 385

Spare parts ball valve type 543 horizontal



Central part L-port

Model:

- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)
- Every connecting pieces and union nuts are listed on product range industry valves

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FPM Code
16	3/8	10	161 488 002	161 488 012
20	1/2	15	161 488 002	161 488 012
25	3/4	20	161 488 003	161 488 013
32	1	25	161 488 004	161 488 014
40	1 1/4	32	161 488 005	161 488 015
50	1 1/2	40	161 488 006	161 488 016
63	2	50	161 488 007	161 488 017



Central part T-port

Model:

- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FPM Code
16	¾	10	161 488 022	161 488 032
20	½	15	161 488 022	161 488 032
25	¾	20	161 488 023	161 488 033
32	1	25	161 488 024	161 488 034
40	1 ¼	32	161 488 025	161 488 035
50	1 ½	40	161 488 026	161 488 036
63	2	50	161 488 027	161 488 037



Assembly kit

Model:

- Intermediate element for ball valve type 543 horizontal and electric or pneumatic actuators EA21; PA11/21
- Including screws and position indicator for actuators

d (mm)	Inch (inch)	DN (mm)	Code
16 - 20	¾ - ½	10 - 15	167 484 941
25 - 32	¾ - 1	20 - 25	167 484 942
40 - 50	1 ¼ - 1 ½	32 - 40	167 484 943
63	2	50	167 484 944



Turn limiter 90°

d (mm)	Size (inch)	DN (mm)	Code
16	¾	10	167 482 479
20	½	15	167 482 479
25	¾	20	167 482 480
32	1	25	167 482 480
40	1 ¼	32	167 482 481
50	1 ½	40	167 482 481
63	2	50	167 482 482



Face seal

Model:

- Face seal no. 10

d (mm)	Size (inch)	DN (mm)	EPDM Code	FPM Code
16	¾	10	748 410 059	749 410 059
20	½	15	748 410 059	749 410 059
25	¾	20	748 410 106	749 410 106
32	1	25	748 410 151	749 410 151
40	1 ¼	32	748 410 062	749 410 062
50	1 ½	40	748 410 003	749 410 003
63	2	50	748 410 231	749 410 231



Lever

d (mm)	Size (inch)	DN (mm)
16	3/8	10
20	1/2	15
25	3/4	20
32	1	25
40	1 1/4	32
50	1 1/2	40
63	2	50

d (mm)	Standard lever L-port red Code	Standard lever L-port black Code	Standard lever T-port red Code	Standard lever T-port black Code	Multifunctional-lever L-port red Code
16	167 484 488	167 484 376	167 484 588	167 484 576	167 484 442
20	167 484 488	167 484 376	167 484 588	167 484 576	167 484 442
25	167 484 489	167 484 377	167 484 589	167 484 577	167 484 443
32	167 484 490	167 484 378	167 484 590	167 484 578	167 484 444
40	167 484 491	167 484 379	167 484 591	167 484 579	167 484 445
50	167 484 492	167 484 380	167 484 592	167 484 580	167 484 446
63	167 484 493	167 484 381	167 484 593	167 484 581	167 484 447

d (mm)	Multifunctional-lever T-port red Code
16	167 484 542
20	167 484 542
25	167 484 543
32	167 484 544
40	167 484 545
50	167 484 546
63	167 484 547



Ball set L-port

Model:

- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)
- Ball seals standard in PTFE

d (mm)	Size (inch)	DN (mm)	PVC-U EPDM Code	PVC-U FPM Code
16	3/8	10	161 488 162	161 488 172
20	1/2	15	161 488 162	161 488 172
25	3/4	20	161 488 163	161 488 173
32	1	25	161 488 164	161 488 174
40	1 1/4	32	161 488 165	161 488 175
50	1 1/2	40	161 488 166	161 488 176
63	2	50	161 488 167	161 488 177