

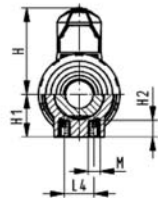
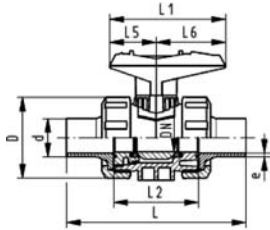
Ball valves

SYGEF® standard Ball valve type 546 PVDF With mounting inserts With butt fusion spigots metric

J



DN10/15 - 50



Model:

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

Option:

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

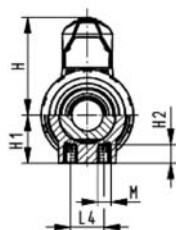
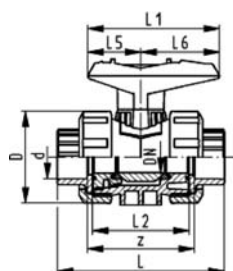
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
20	15	16	185	175 546 272	0.205	
25	20	16	350	175 546 273	0.310	
32	25	16	700	175 546 274	0.460	
40	32	16	1000	175 546 275	0.780	
50	40	16	1600	175 546 276	1.110	
63	50	16	3100	175 546 277	2.150	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	e [mm]	
20	50	57	27	12	130	77	56	25	32	45	M6	1,9	
25	58	67	30	12	143	97	65	25	39	58	M6	1,9	
32	68	73	36	12	150	97	71	25	39	58	M6	2,4	
40	84	90	44	15	171	128	85	45	54	74	M8	2,4	
50	97	97	51	15	191	128	89	45	54	74	M8	3	
63	124	116	64	15	220	152	101	45	66	87	M8	3	

PF 2 35 540



DN10/15 - 50



SYGEF® standard Ball valve type 546 PVDF With mounting inserts With fusion sockets metric

J

Model:

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

Option:

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

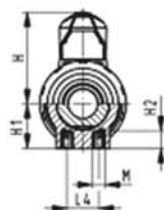
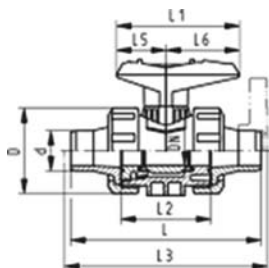
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
16	10	16	71	175 546 411	0.195	
20	15	16	185	175 546 412	0.200	
25	20	16	350	175 546 413	0.300	
32	25	16	700	175 546 414	0.440	
40	32	16	1000	175 546 415	0.760	
50	40	16	1600	175 546 416	1.060	
63	50	16	3100	175 546 417	2.055	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	
16	50	79	27	12	93	77	56	25	32	45	M6	67	
20	50	57	27	12	95	77	56	25	32	45	M6	66	
25	58	67	30	12	109	97	65	25	39	58	M6	77	
32	68	73	36	12	119	97	71	25	39	58	M6	83	
40	84	90	44	15	135	128	85	45	54	74	M8	99	
50	97	97	51	15	147	128	89	45	54	74	M8	105	
63	124	116	64	15	168	152	101	45	66	87	M8	117	

PF 2 35 540



DN10/15 - 50



SYGEF® standard Ball valve type 546 PVDF With mounting inserts With socket fusion spigots metric

J

Model:

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

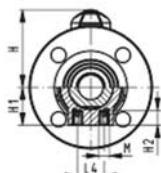
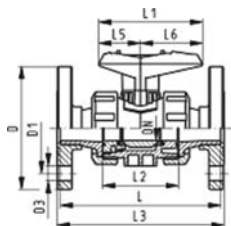
Option:

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

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg
16	10	16	71	175 546 051	0.200
20	15	16	185	175 546 052	0.205
25	20	16	350	175 546 053	0.310
32	25	16	700	175 546 054	0.460
40	32	16	1000	175 546 055	0.780
50	40	16	1600	175 546 056	1.110
63	50	16	3100	175 546 057	2.150

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
16	50	57	27	12	110	77	56		25	32	45	M6
20	50	57	27	12	120	77	56	130	25	32	45	M6
25	58	67	30	12	139	97	65	150	25	39	58	M6
32	68	73	36	12	150	97	71	160	25	39	58	M6
40	84	90	44	15	170	128	85	180	45	54	74	M8
50	97	97	51	15	190	128	89	200	45	54	74	M8
63	124	116	64	15	220	152	101	230	45	66	87	M8

PF 2 35 540



SYGEF® standard Ball valve type 546 PVDF With mounting inserts With fixed flanges PVDF serrated metric

J

Model:

- For easy installation and removal
- z-dimension, valve end and valve nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Overall length EN 558-1

Option:

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

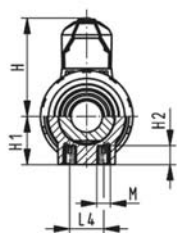
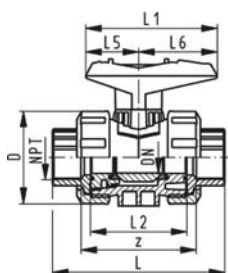
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
20	15	16	185	175 546 192	0.470	
25	20	16	350	175 546 193	0.650	
32	25	16	700	175 546 194	0.940	
40	32	16	1000	175 546 195	1.570	
50	40	16	1600	175 546 196	2.070	
63	50	16	3100	175 546 197	3.490	

d [mm]	D [mm]	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	
20	93	65	14	57	27	12	120	77	56	130	25	32	45	M6	
25	103	75	14	67	30	12	140	97	65	150	25	39	58	M6	
32	115	85	14	73	36	12	150	97	71	160	25	39	58	M6	
40	137	100	18	90	44	15	170	128	85	180	45	54	74	M8	
50	147	110	18	97	51	15	190	128	89	200	45	54	74	M8	
63	162	125	18	116	64	15	220	152	101	230	45	66	87	M8	

PF 2 35 540



DN10/15 - 50



SYGEF® standard Ball valve type 546 PVDF With mounting inserts With threaded sockets NPT

J

Model:

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

Option:

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

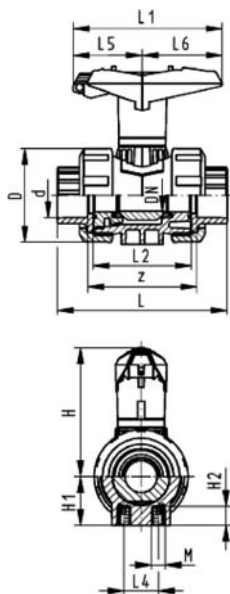
NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
3/8	10	10	71	175 546 331	0.205	
1/2	15	10	185	175 546 332	0.220	
3/4	20	10	350	175 546 333	0.325	
1	25	10	700	175 546 334	0.490	
1 1/4	32	10	1000	175 546 335	0.820	
1 1/2	40	10	1600	175 546 336	1.135	
2	50	10	3100	175 546 337	2.150	

NPT [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	96	77	56	25	32	45	M6	69	
1/2	50	57	27	12	99	77	56	25	32	45	M6	64	
3/4	58	67	30	12	111	97	65	25	39	58	M6	76	
1	68	73	36	12	127	97	71	25	39	58	M6	83	
1 1/4	84	90	44	15	146	128	85	45	54	74	M8	101	
1 1/2	97	97	51	15	157	128	89	45	54	74	M8	111	
2	124	116	64	15	183	152	101	45	66	87	M8	135	

PF 2 35 540



DN10/15 - 50



SYGEF® standard Ball valve type 546 PVDF With lockable handle With fusion sockets metric

J

Model:

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

Option:

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

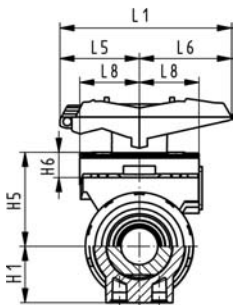
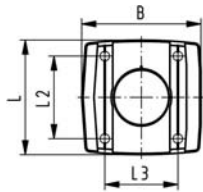
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
16	10	16	71	175 546 431	0.205	
20	15	16	185	175 546 432	0.210	
25	20	16	350	175 546 433	0.315	
32	25	16	700	175 546 434	0.455	
40	32	16	1000	175 546 435	0.785	
50	40	16	1600	175 546 436	1.085	
63	50	16	3100	175 546 437	2.085	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]	
16	50	79	27	12	93	77	56	25	32	45	M6	67	
20	50	79	27	12	95	77	56	25	32	45	M6	66	
25	58	88	30	12	109	97	65	25	39	58	M6	77	
32	68	94	36	12	119	97	71	25	39	58	M6	83	
40	84	113	44	15	135	128	85	45	54	74	M8	99	
50	97	119	51	15	147	128	89	45	54	74	M8	105	
63	124	141	64	15	168	152	101	45	66	87	M8	117	

PF 2 35 540



DN10/15 - 50



PF 2 31 798

Multifunctional module (I02) PP-GF Module empty

B

Model:

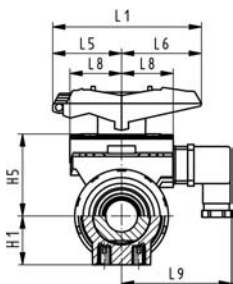
- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- Including screws

d-d [mm]	DN-DN [mm]	Code	kg
16 - 20	10 - 15	167 482 680	0.055
25 - 32	20 - 25	167 482 681	0.070
40 - 50	32 - 40	167 482 682	0.080
- 63	- 50	167 482 683	0.120

d-d [mm]	B [mm]	H1 [mm]	H5 [mm]	H6 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L5 [mm]	L6 [mm]	L8 [mm]
16 - 20	67	27	50	17	72	87	54	40	42	45	34
25 - 32	75	30	53	16	72	108	52	46	50	58	38
40 - 50	81	44	72	16	80	140	60	50	66	75	41
- 63	91	64	94	19	93	165	68	65	78	87	46



DN10/15 - 50



PF 2 31 798

Multifunctional module (I03) PP-GF With mechanical limit switches Ag Ni

B

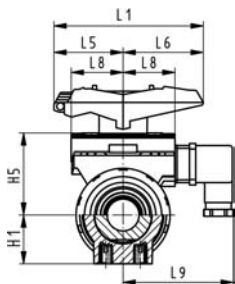
Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- Including Plug 3P+E / Protection: IP65
- Including screws

d-d [mm]	DN-DN [mm]	Code	kg	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]
16 - 20	10 - 15	167 482 626	0.110	27	50	87	42	45	34	73
25 - 32	20 - 25	167 482 627	0.120	30	53	108	50	58	38	77
40 - 50	32 - 40	167 482 628	0.135	44	72	140	66	75	41	80
- 63	- 50	167 482 629	0.175	64	94	165	78	87	46	85



DN10/15 - 50



PF 2 31 798

Multifunctional module (I04) PP-GF With mechanical limit switches Au

B

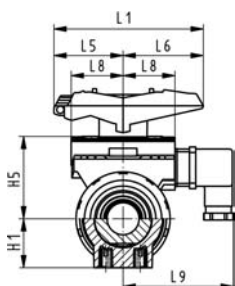
Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- Including Plug 3P+E / Protection: IP65
- Including screws

d-d [mm]	DN-DN [mm]	Code	kg	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]	
16 - 20	10 - 15	167 482 635	0.110	27	50	87	42	45	34	73	
25 - 32	20 - 25	167 482 636	0.120	30	53	108	50	58	38	77	
40 - 50	32 - 40	167 482 637	0.135	44	72	140	66	75	41	80	
- 63	- 50	167 482 638	0.175	64	94	165	78	87	46	85	



DN10/15 - 50



PF 2 31 798

Multifunctional module (I05) PP-GF With inductive limit switches Namur

B

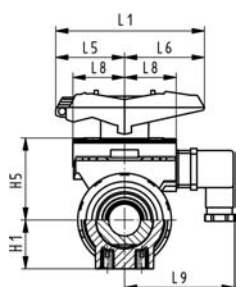
Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- Including Plug 3P+E / Protection: IP65
- Including screws

d-d [mm]	DN-DN [mm]	Code	kg	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]	
16 - 20	10 - 15	167 482 671	0.110	27	50	87	42	45	34	73	
25 - 32	20 - 25	167 482 672	0.120	30	53	108	50	58	38	77	
40 - 50	32 - 40	167 482 673	0.135	44	72	140	66	75	41	80	
- 63	- 50	167 482 674	0.175	64	94	165	78	87	46	85	



DN10/15 - 50



PF 2 31 798

Multifunctional module (I06) PP-GF With inductive limit switches PNP

B

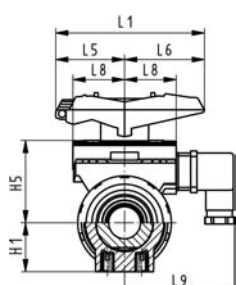
Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- Including Plug 3P+E / Protection: IP65
- Including screws

d-d [mm]	DN-DN [mm]	Code	kg	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]	
16 - 20	10 - 15	167 482 662	0.110	27	50	87	42	45	34	73	
25 - 32	20 - 25	167 482 663	0.120	30	53	108	50	58	38	77	
40 - 50	32 - 40	167 482 664	0.135	44	72	140	66	75	41	80	
- 63	- 50	167 482 665	0.175	64	94	165	78	87	46	85	



DN10/15 - 50



PF 2 31 798

Multifunctional module (I07) PP-GF With inductive limit switches NPN

B

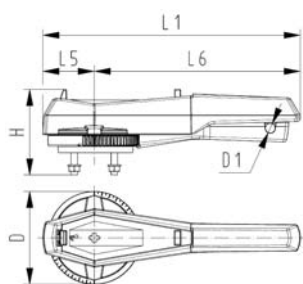
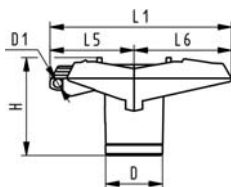
Model:

- Accessory to Ball Valve Type 546
- Multifunctional module acts as an intermediate element for actuators
- Including Plug 3P+E / Protection: IP65
- Including screws

d-d [mm]	DN-DN [mm]	Code	kg	H1 [mm]	H5 [mm]	L1 [mm]	L5 [mm]	L6 [mm]	L8 [mm]	L9 [mm]	
16 - 20	10 - 15	167 482 653	0.110	27	50	87	42	45	34	73	
25 - 32	20 - 25	167 482 654	0.120	30	53	108	50	58	38	77	
40 - 50	32 - 40	167 482 655	0.135	44	72	140	66	75	41	80	
- 63	- 50	167 482 656	0.175	64	94	165	78	87	46	85	



DN10/15 - 50

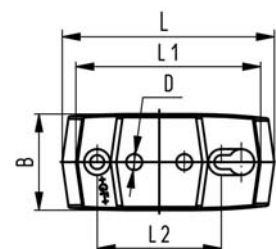
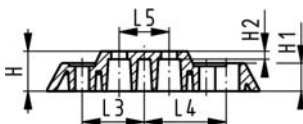


PF 2 31 798

Multifunctional handle 546 red (K11) With ratchet settings lockable

B

d-d [mm]	DN-DN [mm]	Code	kg	D [mm]	D1 [mm]	H [mm]	L1 [mm]	L5 [mm]	L6 [mm]	
16 - 20	10 - 15	167 484 100	0.026	26	5	53	87	42	45	
- 25	- 20	167 484 101	0.045	34	5	59	108	50	58	
- 32	- 25	167 484 102	0.045	34	5	59	108	50	58	
- 40	- 32	167 484 103	0.082	40	5	69	140	66	75	
- 50	- 40	167 484 104	0.082	40	5	69	140	66	75	
- 63	- 50	167 484 105	0.104	44	5	80	165	78	87	



PF 2 31 798

Mounting plate 546 PP-GF (L02)

B

- 2 mounting screws inclusive

d-d [mm]	DN-DN [mm]	Code	kg	
16 - 32	10 - 25	167 484 110	0.055	
40 - 63	32 - 50	167 484 111	0.086	

d-d [mm]	B [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	
16 - 32	48	8	20	14	4	106	92	62	31	41	25	
40 - 63	54	9	20	14	4	149	134	104	52	62	45	

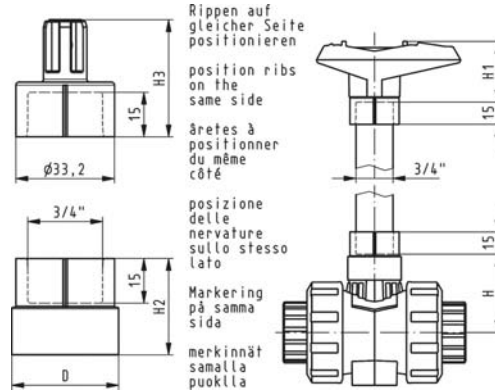


PF 2 31 798

Handle extension 546 PVC-U inch BS/ASTM

- For Ball Valve Type 546

DN-DN [mm]	Inch	Code	kg	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	D [mm]	
10 - 15	3/8-1/2	161 486 443	0.032	41	52	29	36	26	
20 - 25	3/4-1	161 486 444	0.037	50	62	32	39	36	
32 - 40	1 1/4-1 1/2	161 486 445	0.047	65	76	34	44	40	
50 -	2	161 486 446	0.058	84	87	37	48	44	



PF 2 31 798

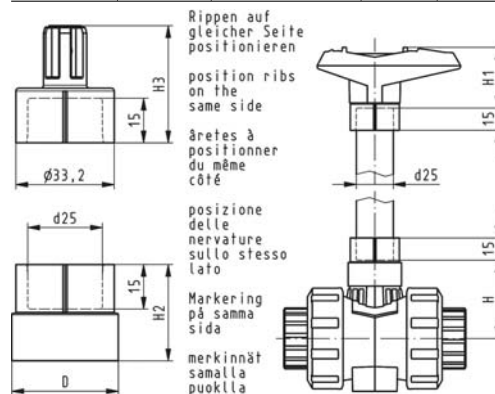
Handle extension 546 PVC-U metric

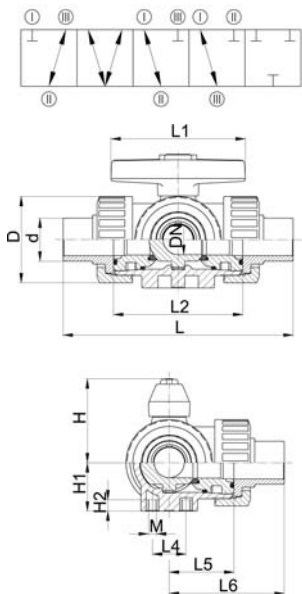
B

Model:

- For Ball Valve Type 546
- Composed of adapter sockets for handle connection and stem connection
- PVC-U pipe in suitable length has to be obtained on site

d-d [mm]	DN-DN [mm]	Code	kg	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	D [mm]	
16 - 20	10 - 15	161 486 435	0.032	41	52	29	36	26	
25 - 32	20 - 25	161 486 436	0.037	50	62	32	39	36	
40 - 50	32 - 40	161 486 437	0.047	65	76	34	44	40	
- 63	- 50	161 486 438	0.058	84	87	37	48	44	





PF 2 35 491

SYGEF® standard 3-Way ball valve type 343 PVDF Horizontal/L-port With butt fusion spigots metric

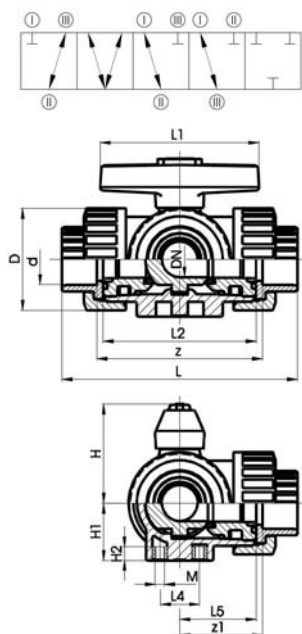
J

Model:

- L-port ball
- For easy installation and removal
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360°, without turn limiter

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
16	10	10	49	175 343 051	0.245	
20	15	10	77	175 343 052	0.245	
25	20	10	146	175 343 053	0.462	
32	25	10	260	175 343 054	0.630	
40	32	10	437	175 343 055	1.053	
50	40	10	667	175 343 056	1.709	
63	50	10	1293	175 343 057	3.310	

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	
16	46	50	27	8	119	78	70	25	36	60	M6	
20	46	50	27	8	140	78	70	25	36	70	M6	
25	56	60	33	8	156	92	86	25	43	78	M6	
32	67	68	36	8	168	100	96	25	48	84	M6	
40	82	79	44	9	198	110	114	45	58	99	M8	
50	98	90	49	9	233	120	137	45	69	117	M8	
63	121	109	61	9	285	146	179	45	90	143	M8	



PF 2 35 491

SYGEF® standard 3-Way ball valve type 343 PVDF Horizontal/L-port With fusion sockets metric

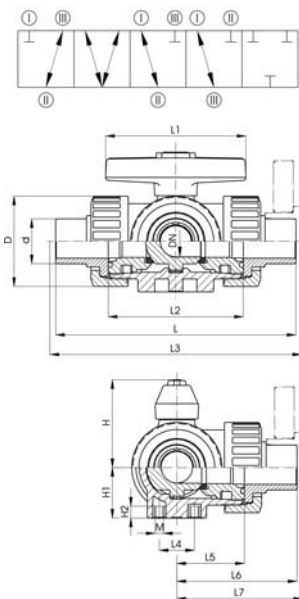
J

Model:

- L-port ball
- For easy installation and removal
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360°, without turn limiter

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
16	10	10	49	175 343 011	0.245	
20	15	10	77	175 343 012	0.245	
25	20	10	146	175 343 013	0.462	
32	25	10	260	175 343 014	0.630	
40	32	10	437	175 343 015	1.053	
50	40	10	667	175 343 016	1.709	
63	50	10	1293	175 343 017	3.310	

d [mm]	z [mm]	z1 [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	M	
16	78	39	46	50	27	8	108	78	70	25	36	M6	
20	79	40	46	50	27	8	111	78	70	25	36	M6	
25	95	48	56	60	33	8	131	92	86	25	43	M6	
32	108	54	67	68	36	8	148	100	96	25	48	M6	
40	133	67	82	79	44	9	177	110	114	45	58	M8	
50	155	78	98	90	49	9	205	120	137	45	69	M8	
63	203	102	121	109	61	9	261	146	179	45	90	M8	



SYGEF® standard 3-Way ball valve type 343 PVDF Horizontal/L-port With fusion spigots metric

J

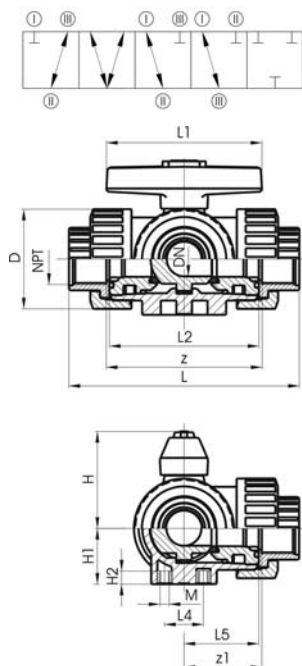
Model:

- L-port ball
- For easy installation and removal
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360°, without turn limiter

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg								
16	10	10	49	175 343 031	0.245								
20	15	10	77	175 343 032	0.245								
25	20	10	146	175 343 033	0.462								
32	25	10	260	175 343 034	0.630								
40	32	10	437	175 343 035	1.053								
50	40	10	667	175 343 036	1.709								
63	50	10	1293	175 343 037	3.310								

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	
16	46	50	27	8	119	78	70	130	25	36	60	65	M6	
20	46	50	27	8	133	78	70	144	25	36	67	68	M6	
25	56	60	33	8	155	92	86	165	25	43	78	79	M6	
32	67	68	36	8	170	100	96	180	25	48	85	87	M6	
40	82	79	44	9	201	110	114	209	45	58	101	102	M8	
50	98	90	49	9	236	120	137	244	45	69	118	120	M8	
63	121	109	61	9	286	146	179	295	45	90	143	150	M8	

PF 2 35 491



PF 2 35 491

SYGEF® standard 3-Way ball valve type 343 PVDF Horizontal/L-port With threaded sockets NPT

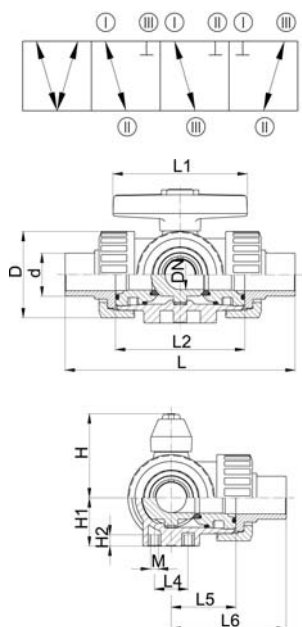
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Model:

- L-port ball
- For easy installation and removal
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360°, without turn limiter

NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg							
3/8	10	10	49	175 343 071	0.245							
1/2	15	10	77	175 343 072	0.245							
3/4	20	10	146	175 343 073	0.462							
1	25	10	260	175 343 074	0.630							
1 1/4	32	10	437	175 343 075	1.053							
1 1/2	40	10	667	175 343 076	1.709							
2	50	10	1293	175 343 077	3.310							

NPT [inch]	z [mm]	z1 [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	M
3/8	76	38	46	50	27	8	108	78	70	25	36	M6
1/2	76	38	46	50	27	8	111	78	70	25	36	M6
3/4	90	45	56	60	33	8	131	92	86	25	43	M6
1	100	50	67	68	36	8	148	100	96	25	48	M6
1 1/4	122	61	82	79	44	9	176	110	114	45	58	M8
1 1/2	152	76	98	90	49	9	206	120	137	45	69	M8
2	200	100	116	109	61	9	262	146	179	45	90	M8



PF 2 35 492

SYGEF® standard 3-Way ball valve type 343 PVDF Horizontal/T-port With butt fusion spigots metric

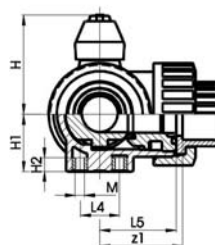
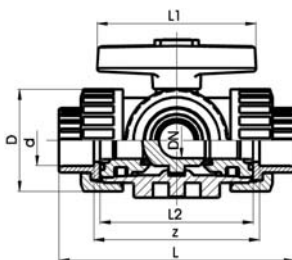
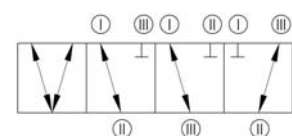
J

Model:

- T-port ball
- For easy installation and removal
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 90°, without turn limiter

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg							
16	10	10	140	175 343 151	0.245							
20	15	10	200	175 343 152	0.245							
25	20	10	470	175 343 153	0.462							
32	25	10	793	175 343 154	0.630							
40	32	10	1290	175 343 155	1.053							
50	40	10	1910	175 343 156	1.709							
63	50	10	3100	175 343 157	3.310							

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M
16	46	50	27	8	119	78	70	25	36	60	M6
20	46	50	27	8	140	78	70	25	36	70	M6
25	56	60	33	8	156	92	86	25	43	78	M6
32	67	68	36	8	168	100	96	25	48	84	M6
40	82	79	44	9	198	110	114	45	58	99	M8
50	98	90	49	9	233	120	137	45	69	117	M8
63	121	109	61	9	285	146	179	45	90	143	M8



SYGEF® standard

3-Way ball valve type 343 PVDF

Horizontal/T-port

With fusion sockets metric

J

Model:

- T-port ball
- For easy installation and removal
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 90°, without turn limiter

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg
16	10	10	140	175 343 111	0.245
20	15	10	200	175 343 112	0.245
25	20	10	470	175 343 113	0.462
32	25	10	793	175 343 114	0.630
40	32	10	1290	175 343 115	1.053
50	40	10	1910	175 343 116	1.709
63	50	10	3100	175 343 117	3.310

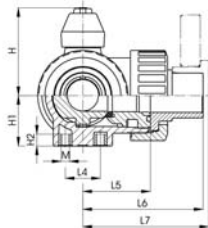
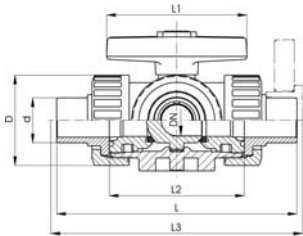
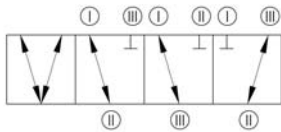
d [mm]	z [mm]	z1 [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	M
16	78	39	46	50	27	8	108	78	70	25	36	M6
20	79	40	46	50	27	8	111	78	70	25	36	M6
25	95	48	56	60	33	8	131	92	86	25	43	M6
32	108	54	67	68	36	8	148	100	96	25	48	M6
40	133	67	82	79	44	9	177	110	114	45	58	M8
50	155	78	98	90	49	9	205	120	137	45	69	M8
63	203	102	121	109	61	9	261	146	179	45	90	M8

PF 2 35 492



SYGEF® standard 3-Way ball valve type 343 PVDF Horizontal/T-port With fusion spigots metric

J



Model:

- T-port ball
- For easy installation and removal
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 90°, without turn limiter

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg
16	10	10	140	175 343 131	0.245
20	15	10	200	175 343 132	0.245
25	20	10	470	175 343 133	0.462
32	25	10	793	175 343 134	0.630
40	32	10	1290	175 343 135	1.053
50	40	10	1910	175 343 136	1.709
63	50	10	3100	175 343 137	3.310

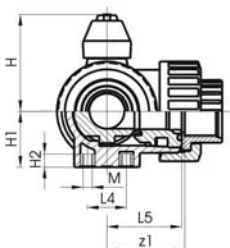
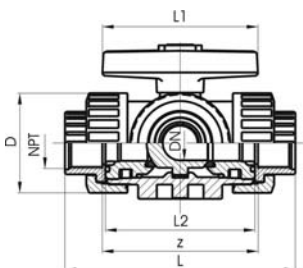
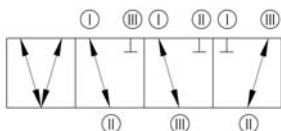
d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	L7 [mm]	M
16	46	50	27	8	119	78	70	130	25	36	60	65	M6
20	46	50	27	8	133	78	70	144	25	36	67	68	M6
25	56	60	33	8	155	92	86	165	25	43	78	79	M6
32	67	68	36	8	170	100	96	180	25	48	85	87	M6
40	82	79	44	9	201	110	114	209	45	58	101	102	M8
50	98	90	49	9	236	120	137	244	45	69	118	120	M8
63	121	109	61	9	286	146	179	295	45	90	143	150	M8

PF 2 35 492



SYGEF® standard 3-Way ball valve type 343 PVDF Horizontal/T-port With threaded sockets NPT

J



Model:

- T-port ball
- For easy installation and removal
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 90°, without turn limiter

NPT [inch]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg
3/8	10	10	140	175 343 171	0.245
1/2	15	10	200	175 343 172	0.245
3/4	20	10	470	175 343 173	0.462
1	25	10	793	175 343 174	0.630
1 1/4	32	10	1290	175 343 175	1.053
1 1/2	40	10	1910	175 343 176	1.709
2	50	10	3100	175 343 177	3.310

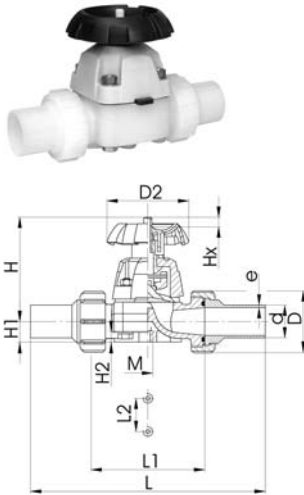
NPT [inch]	z [mm]	z1 [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	M
3/8	76	38	46	50	27	8	108	78	70	25	36	M6
1/2	76	38	46	50	27	8	111	78	70	25	36	M6
3/4	90	45	56	60	33	8	131	92	86	25	43	M6
1	100	50	67	68	36	8	148	100	96	25	48	M6
1 1/4	122	61	82	79	44	9	176	110	114	45	58	M8
1 1/2	152	76	98	90	49	9	206	120	137	45	69	M8
2	200	100	121	109	61	9	262	146	179	45	90	M8

PF 2 35 492

Diaphragm valves

SYGEF® standard Diaphragm valve type 314 PVDF With butt fusion spigots metric

J



Model:

- Diaphragm PTFE with EPDM backing diaphragm (FDA compliant)
- For easy installation and removal
- Short overall length
- Welding dimension: PN16

Option:

- Handwheel with built-in locking mechanism (standard version is nonlockable)

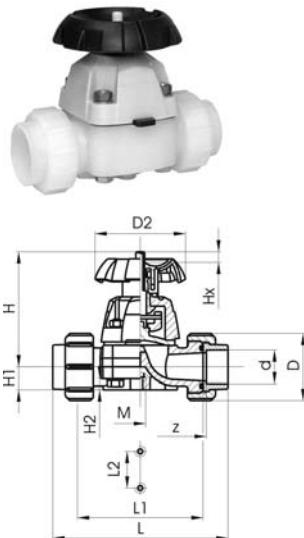
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE with EPDM supp. Diaphragm Code	kg	
20	15	10	72	175 314 532	0.485	
25	20	10	137	175 314 533	0.710	
32	25	10	207	175 314 534	0.970	
40	32	10	354	175 314 535	1.545	
50	40	10	517	175 314 536	2.040	
63	50	10	713	175 314 537	3.537	

d [mm]	D [mm]	D2 [mm]	e [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	M	
20	45	80	1.9	90	14	12	196	90	25	M6	
25	55	80	1.9	101	18	12	220	108	25	M6	
32	62	94	2.4	117	22	12	234	116	25	M6	
40	75	117	2.4	127	26	15	258	134	45	M8	
50	84	117	3.0	139	32	15	284	154	45	M8	
63	101	152	3.0	172	39	15	320	184	45	M8	

PF 2 35 193

SYGEF® standard Diaphragm valve type 314 PVDF With fusion sockets metric

J



Model:

- Diaphragm PTFE with EPDM backing diaphragm (FDA compliant)
- For easy installation and removal
- Short overall length

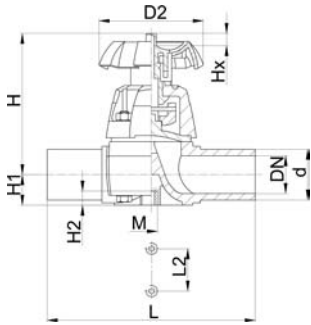
Option:

- Handwheel with built-in locking mechanism (standard version is nonlockable)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE with EPDM supp. Diaphragm Code	kg	
20	15	10	72	175 314 432	0.470	
25	20	10	137	175 314 433	0.687	
32	25	10	207	175 314 434	0.935	
40	32	10	354	175 314 435	1.500	
50	40	10	517	175 314 436	1.960	
63	50	10	713	175 314 437	3.470	

d [mm]	D [mm]	D2 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	M	z [mm]	
20	45	80	90	14	12	128	90	25	M6	100	
25	55	80	101	18	12	150	108	25	M6	118	
32	62	94	117	22	12	162	116	25	M6	126	
40	75	117	127	26	15	184	134	45	M8	144	
50	84	117	139	32	15	210	154	45	M8	164	
63	101	152	172	39	15	148	184	45	M8	194	

PF 2 35 193



PF 2 35 193

SYGEF® standard Diaphragm valve type 315 PVDF With butt fusion spigots metric

J

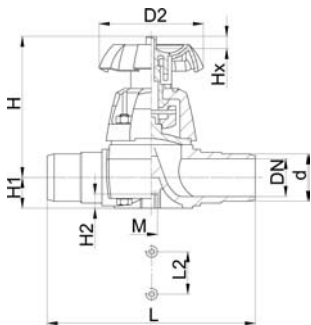
Model:

- Welding dimension: PN16
- Diaphragm PTFE with EPDM backing diaphragm (FDA compliant)
- Further versions : with diaphragm FPM on request

Option:

- Handwheel with built-in locking mechanism (standard version is nonlockable)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE with EPDM supp. diaphragm Code	kg	D2 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	
20	15	10	72	175 315 532	0.360	80	90	14	12	124	25	M6	
25	20	10	137	175 315 533	0.560	80	102	18	12	144	25	M6	
32	25	10	207	175 315 534	0.804	94	119	21	12	154	25	M6	
40	32	10	354	175 315 535	1.025	117	126	26	15	174	45	M8	
50	40	10	517	175 315 536	1.480	117	139	33	15	194	45	M8	
63	50	10	713	175 315 537	2.581	152	172	39	15	224	45	M8	



PF 2 35 193

SYGEF® standard Diaphragm valve type 315 PVDF With socket fusion spigots metric

J

Model:

- Diaphragm PTFE with EPDM backing diaphragm (FDA compliant)
- Further versions : with diaphragm FPM on request

Option:

- Handwheel with built-in locking mechanism (standard version is nonlockable)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE with EPDM supp. diaphragm Code	kg	D2 [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L2 [mm]	M	
20	15	10	72	175 315 432	0.350	80	90	14	12	124	25	M6	
25	20	10	137	175 315 433	0.570	80	102	18	12	144	25	M6	
32	25	10	207	175 315 434	0.805	94	119	21	12	154	25	M6	
40	32	10	354	175 315 435	1.000	117	126	26	15	174	45	M8	
50	40	10	517	175 315 436	1.500	117	139	33	15	194	45	M8	
63	50	10	713	175 315 437	2.680	152	172	39	15	224	45	M8	



SYGEF® standard Diaphragm valve type 317 PVDF Flanged connection metric

J

Model:

- DN 15-65 with backing flange
- DN 80-150 with fixed flange
- Overall length according to EN 558-1
- Diaphragm PTFE with EPDM backing diaphragm (FDA compliant)

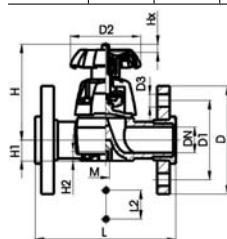
Option:

- Handwheel with built-in locking mechanism (standard version is nonlockable)

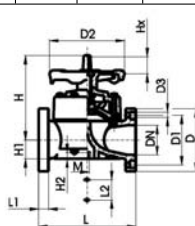
* DN80 and DN150 fixed flanges metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE with EPDM supp. diaphragm Code	kg	
20	15	½	10	72	175 317 432	1.000	
25	20	¾	10	137	175 317 433	0.858	
32	25	1	10	207	175 317 434	1.000	
40	32	1 ½	10	354	175 317 435	2.270	
50	40	1 ½	10	517	175 317 436	2.260	
63	50	2	10	713	175 317 437	3.700	
75	65	2 ½	10	992	175 317 438	5.700	
*90	80	3	10	1700	175 317 009	10.700	
110	100	4	10	2700	175 317 010	14.890	
*160	150	6	7	6033	175 317 012	33.500	

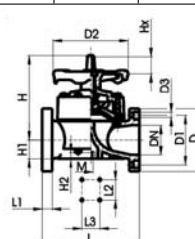
d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	Lift = Hx [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	M	AL
20	95	65	80	14	90	14	12	8	130		25		M6	4
25	105	75	80	14	102	18	12	11	150		25		M6	4
32	115	85	94	14	119	21	12	13	160		25		M6	4
40	140	100	117	18	126	26	15	16	180		45		M8	4
50	150	110	117	18	139	33	15	21	200		45		M8	4
63	165	125	152	18	172	39	15	28	230		45		M8	4
75	185	145	152	18	201	46	15	30	290		70		M8	4
*90	200	160	270	18	265	57	23	40	310	35	120		M12	8
110	225	180	270	18	302	68	23	50	350	35	120		M12	8
*160	285	240	400	22	437	108	23	70	480	26	100	200	M12	8



DN 15-65



DN 80-100



DN 150

PF 2 35 193



SYGEF® standard Diaphragm valve type 317 PVDF Flanged connection ANSI

J

Model:

- DN 15-65 with backing flange
- DN 80-150 with fixed flange
- Overall length according to EN 558-1
- Diaphragm PTFE with EPDM backing diaphragm (FDA compliant)

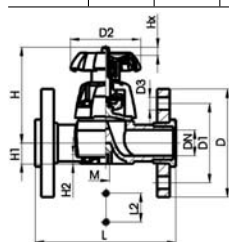
Option:

- Handwheel with built-in locking mechanism (standard version is nonlockable)

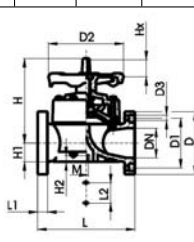
* DN80 and DN150 fixed flanges metric and Inch ANSI B16.5

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	PTFE with EPDM supp. diaphragm Code	kg								
20	15	½	10	72	175 317 532	0.550								
25	20	¾	10	137	175 317 533	1.210								
32	25	1	10	207	175 317 534	1.210								
40	32	1 ¼	10	354	175 317 535	2.270								
50	40	1 ½	10	517	175 317 536	2.280								
63	50	2	10	713	175 317 537	3.681								
75	65	2 ½	10	992	175 317 538	6.000								
*90	80	3	10	1700	175 317 339									
*110	100	4	10	2700	175 317 340	14.950								

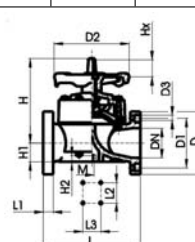
d [mm]	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	Lift = Hx [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	M	AL
20	95	61	80	14	90	14	12	8	130		25		M6	4
25	105	70	80	14	93	18	12	11	150		25		M6	4
32	115	80	94	14	119	21	12	13	160		25		M6	4
40	140	89	117	18	126	26	15	16	180		45		M8	4
50	150	99	117	18	139	33	15	21	200		45		M8	4
63	165	121	152	18	172	39	15	28	230		45		M8	4
75	185	140	152	18	201	46	15	30	290		70		M8	4
*90	200	152	270	18	265	57	23	40	310	35	120		M12	8
*110	225	191	270	18	304	69	23	50	350	35	120		M12	8



DN 15-65



DN 80-100



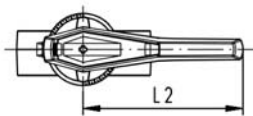
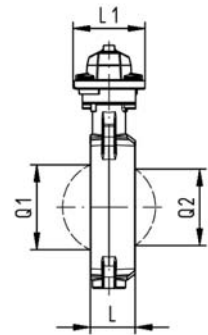
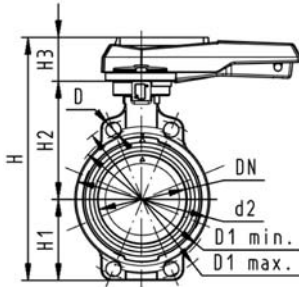
DN 150

PF 2 35 193

Butterfly valves

SYGEF® standard Butterfly valve type 567 PVDF Hand lever with ratchet settings

J



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg
63	50	2	10	1470	175 567 002	1.080
75	65	2 ½	10	2200	175 567 003	1.192
90	80	3	10	3000	175 567 004	1.372
110	100	4	10	6500	175 567 005	2.072
140	125	5	10	11500	175 567 006	2.667
160	150	6	10	16600	175 567 007	3.887
225	200	8	10	39600	175 567 008	6.545

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [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

PF 2 35 566

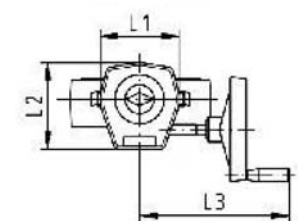
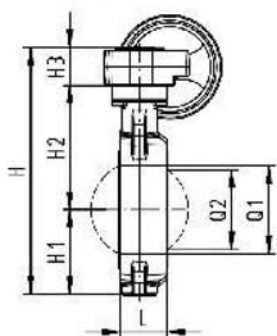
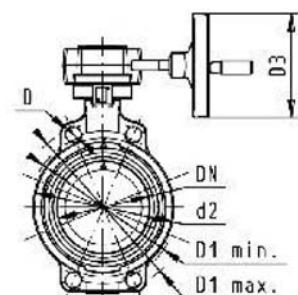


SYGEF® standard Butterfly valve type 567 PVDF Reduction gear with handwheel

J

Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752

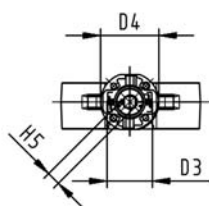
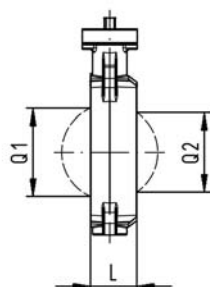
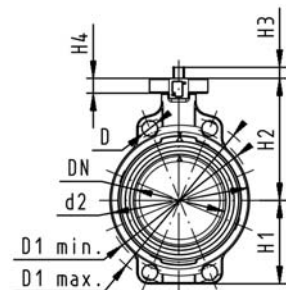


d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg
63	50	2	10	1470	175 567 022	3.118
75	65	2 ½	10	2200	175 567 023	3.230
90	80	3	10	3000	175 567 024	3.410
110	100	4	10	6500	175 567 025	4.062
140	125	5	10	11500	175 567 026	4.657
160	150	6	10	16600	175 567 027	5.877
225	200	8	10	39600	175 567 028	7.998

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	19	120.0	125.0	104	160	278	77	134	68	45	120	132	236	40
75	19	139.7	145.0	115	160	291	83	140	68	46	120	132	236	54
90	19	150.0	160.0	131	160	303	89	146	68	49	120	132	236	67
110	19	175.0	190.5	160	160	339	104	167	68	56	120	132	236	88
140	23	210.0	215.9	187	160	365	117	181	68	64	120	132	236	113
160	24	241.3	241.3	215	160	387	130	189	68	72	120	132	236	139
225	23	290.0	295.0	267	160	436	158	210	68	73	120	132	236	178

d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

PF 2 35 566



SYGEF® standard Butterfly valve type 567 PVDF Bare shaft

Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Interface F07 according to DIN/ISO 5211

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg								
63	50	2	10	1470	175 567 822	0.858								
75	65	2 ½	10	2200	175 567 823	0.970								
90	80	3	10	3000	175 567 824	1.150								
110	100	4	10	6500	175 567 825	1.802								
140	125	5	10	11500	175 567 826	2.397								
160	150	6	10	16600	175 567 827	3.617								
225	200	8	10	39600	175 567 828	5.738								

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]
63	19	120.0	125.0	104	70	90	222	77	134	27	23	11	45	40
75	19	139.7	145.0	115	70	90	235	83	140	27	23	11	46	54
90	19	150.0	160.0	131	70	90	247	89	146	27	23	11	49	67
110	19	175.0	190.5	161	70	90	287	104	167	16	23	14	56	88
140	23	210.0	215.9	187	70	90	313	117	181	16	23	14	64	113
160	24	241.3	241.3	215	70	90	335	130	189	19	23	17	72	139
225	23	290.0	295.0	267	70	90	387	158	210	19	23	17	73	178

d [mm]	Q2 [mm]													
63														
75	35													
90	50													
110	74													
140	97													
160	123													
225	169													

PF 2 35 569

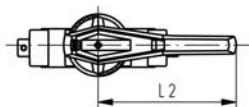
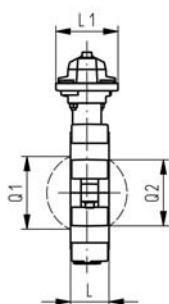
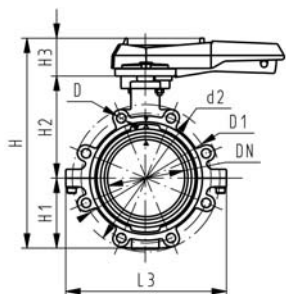


SYGEF® standard Lugstyle butterfly valve type 568 PVDF Hand lever with ratchet settings

J

Model:

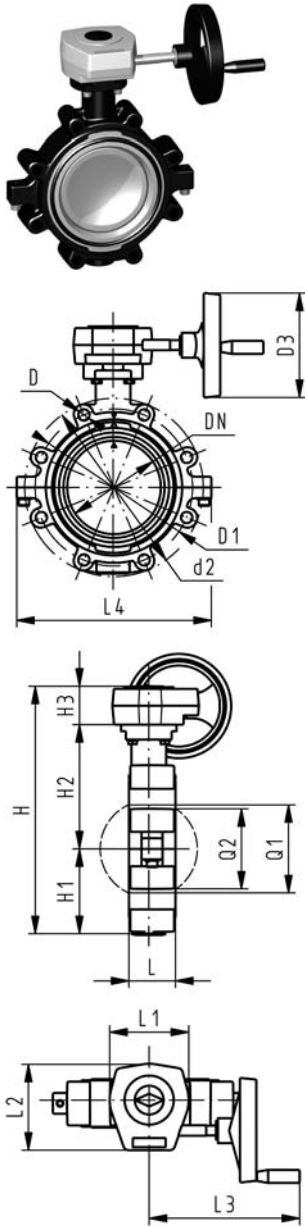
- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
63	50	2	10	1470	175 568 002	3.170	
75	65	2 1/2	10	2200	175 568 003	3.533	
90	80	3	10	3000	175 568 004	4.590	
110	100	4	10	6500	175 568 005	6.170	
140	125	5	10	11500	175 568 006	8.151	
160	150	6	10	16600	175 568 007	10.370	
225	200	8	10	39600	175 568 008	16.521	

d [mm]	d2 [mm]	D	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]	
63	150	M16	125	265	77	134	54	45	106	205	150	40		
75	170	M16	145	277	83	140	54	46	106	205	160	54	35	
90	184	M16	160	289	89	146	54	49	106	205	205	67	50	
110	216	M16	180	326	104	167	55	56	106	255	244	88	74	
140	246	M16	210	353	117	181	55	64	106	255	272	113	97	
160	273	M20	240	374	130	189	55	72	106	255	297	139	123	
225	334	M20	295	435	158	210	67	73	140	408	360	178	169	

PF 2 35 569



SYGEF® standard Lugstyle butterfly valve type 568 PVDF Reduction gear with handwheel

J

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg										
63	50	2	10	1470	175 568 022	5.208										
75	65	2 ½	10	2200	175 568 023	5.571										
90	80	3	10	3000	175 568 024	6.628										
110	100	4	10	6500	175 568 025	8.160										
140	125	5	10	11500	175 568 026	10.141										
160	150	6	10	16600	175 568 027	12.360										
225	200	8	10	39600	175 568 028	17.974										

d [mm]	d2 [mm]	D	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	150	M16	125	160	279	77	134	68	45	120	132	236	150	40	
75	170	M16	145	160	291	83	140	68	46	120	132	236	160	54	35
90	184	M16	160	160	303	89	146	68	49	120	132	236	205	67	50
110	216	M16	180	160	339	104	167	68	56	120	132	236	244	88	74
140	246	M16	210	160	366	117	181	68	64	120	132	236	272	113	97
160	273	M20	240	160	387	130	189	68	72	120	132	236	297	139	123
225	334	M20	295	160	436	158	210	68	73	120	132	236	360	178	169

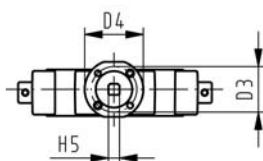
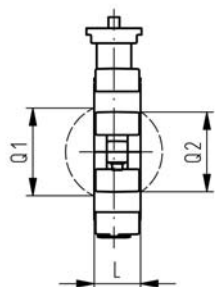
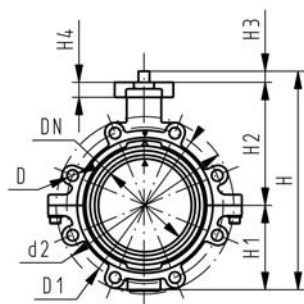
PF 2 35 569



SYGEF® standard Lugstyle butterfly valve type 568 PVDF Bare shaft

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10
- Overall length according to EN 558-1, ISO 5752
- Interface F07 according to DIN/ISO 5211



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
63	50	2	10	1470	175 568 822	2.948	
75	65	2 1/2	10	2200	175 568 823	3.311	
90	80	3	10	3000	175 568 824	4.368	
110	100	4	10	6500	175 568 825	5.900	
140	125	5	10	11500	175 568 826	7.881	
160	150	6	10	16600	175 568 827	10.100	
225	200	8	10	39600	175 568 828	15.714	

d [mm]	d2 [mm]	D	D1 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	Q1 [mm]	Q2 [mm]	
63	150	M16	125	70	90	222	77	134	27	23	45	40		
75	170	M16	145	70	90	235	83	140	27	23	46	54	35	
90	184	M16	160	70	90	247	89	146	27	23	49	67	50	
110	216	M16	180	70	90	287	104	167	16	23	56	88	74	
140	246	M16	210	70	90	313	117	181	16	23	64	113	97	
160	273	M20	240	70	90	335	130	189	19	23	72	139	123	
225	334	M20	295	70	90	387	158	210	19	23	73	178	169	

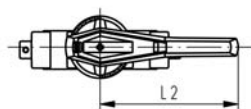
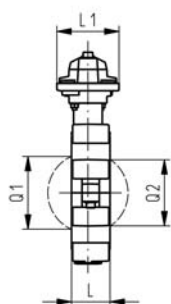
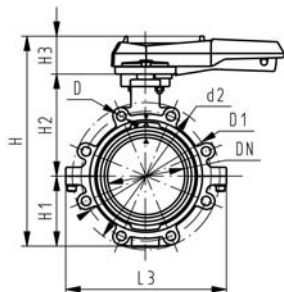
PF 2 35 569



SYGEF® standard Lugstyle butterfly valve 568 PVDF ANSI Hand lever with ratchet settings

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752



Inch	d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg								
2	63	50	10	1470	175 568 102	3.170								
2 ½	75	65	10	2200	175 568 103	3.533								
3	90	80	10	3000	175 568 104	3.961								
4	110	100	10	6500	175 568 105	6.170								
5	140	125	10	11500	175 568 106	8.151								
6	160	150	10	16600	175 568 107	10.370								
8	225	200	10	39600	175 568 108	16.521								

Inch	d2 [mm]	D	D1 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]	
2	150	UNC 5/8	121	265	77	134	54	45	106	205	150	40		
2 ½	170	UNC 5/8	138	277	83	140	54	46	106	205	160	54	35	
3	177	UNC 5/8	152	289	89	146	54	49	106	205	175	67	50	
4	216	UNC 5/8	191	326	104	167	55	56	106	255	244	88	74	
5	246	UNC 3/4	216	353	117	181	55	64	106	255	272	113	97	
6	273	UNC 3/4	241	374	130	189	55	72	106	255	297	139	123	
8	334	UNC 3/4	298	435	158	210	67	73	140	408	360	178	169	

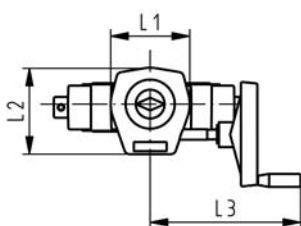
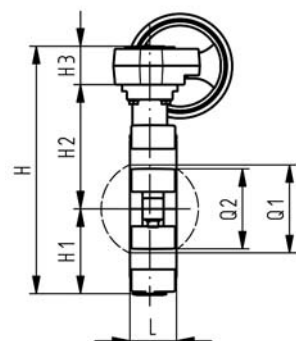
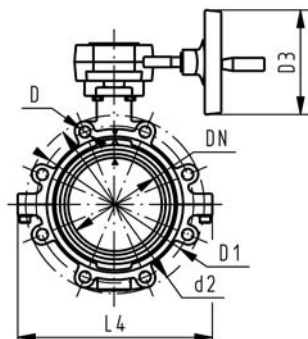
PF 2 35 569



SYGEF® standard Lugstyle butterfly valve 568 PVDF ANSI Reduction gear with handwheel

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752



Inch	d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
2	63	50	10	1470	175 568 122	5.208	
2 ½	75	65	10	2200	175 568 123	5.571	
3	90	80	10	3000	175 568 124	5.999	
4	110	100	10	6500	175 568 125	8.160	
5	140	125	10	11500	175 568 126	10.141	
6	160	150	10	16600	175 568 127	12.360	
8	225	200	10	39600	175 568 128	17.974	

Inch	d2 [mm]	D	D1 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	Q1 [mm]
2	150	UNC 5/8	121	160	279	77	134	68	45	120	132	236	150	40
2 ½	170	UNC 5/8	138	160	291	83	140	68	46	120	132	236	160	54
3	177	UNC 5/8	152	160	303	89	146	68	49	120	132	236	175	67
4	216	UNC 5/8	191	160	339	104	167	68	56	120	132	236	244	88
5	246	UNC 3/4	216	160	366	117	181	68	64	120	132	236	272	113
6	273	UNC 3/4	241	160	387	130	189	68	72	120	132	236	297	139
8	334	UNC 3/4	298	160	436	158	210	68	73	120	132	236	360	178

Inch	Q2 [mm]	
2		
2 ½	35	
3	50	
4	74	
5	97	
6	123	
8	169	

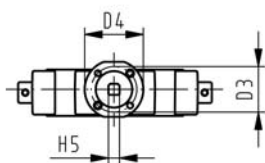
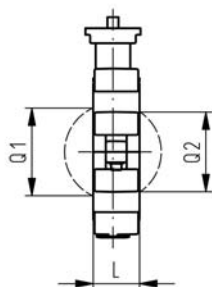
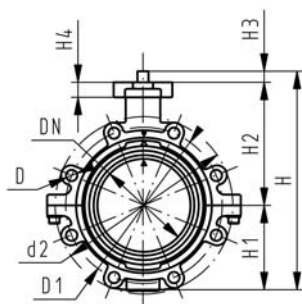
PF 2 35 569



SYGEF® standard Lugstyle butterfly valve 568 PVDF ANSI Bare shaft

Model:

- Outer body in GGG-40.3 epoxy-coated
- Connecting dimension ANSI B 16.5 Class 150
- Overall length according to EN 558-1, ISO 5752
- Interface F07 according to DIN/ISO 5211



Inch	d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	
2	63	50	10	1470	175 568 922	2.948	
2 ½	75	65	10	2200	175 568 923	3.311	
3	90	80	10	3000	175 568 924	3.739	
4	110	100	10	6500	175 568 925	5.900	
5	140	125	10	11500	175 568 926	7.881	
6	160	150	10	16600	175 568 927	10.100	
8	225	200	10	39600	175 568 928	15.714	

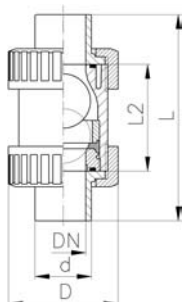
Inch	d2 [mm]	D	D1 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	Q1 [mm]	Q2 [mm]	
2	150	UNC 5/8	121	70	90	222	77	134	27	23	45	40		
2 ½	170	UNC 5/8	138	70	90	235	83	140	27	23	46	54	35	
3	177	UNC 5/8	152	70	90	247	89	146	27	23	49	67	50	
4	216	UNC 5/8	191	70	90	287	104	167	16	23	56	88	74	
5	246	UNC 3/4	216	70	90	313	117	181	16	23	64	113	97	
6	273	UNC 3/4	241	70	90	335	130	189	19	23	72	139	123	
8	334	UNC 3/4	298	70	90	387	158	210	19	23	73	178	169	

PF 2 35 569

Ball check valves

SYGEF® standard Ball check valve type 360 PVDF With butt fusion spigots metric

J



PF 2 35 195

Model:

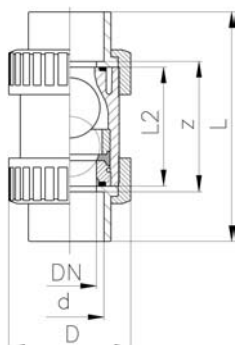
- For easy installation and removal
- Ball is sealing at a minimum water column 1m
- Vibration free even at high flow velocity
- FPM ball seal

Attention; make sure the inner diameter is not reduced by leaving residues of the fusion (danger of turbulence)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	
20	15	16	150	175 360 492	0.156	46	130	62	
25	20	16	330	175 360 493	0.259	56	144	74	
32	25	16	390	175 360 494	0.406	67	150	78	
40	32	16	710	175 360 495	0.676	82	171	88	
50	40	16	900	175 360 496	1.086	98	191	94	
63	50	16	1390	175 360 497	2.029	120	220	113	

SYGEF® standard Ball check valve type 360 PVDF With fusion sockets metric

J



PF 2 35 195

Model:

- For easy installation and removal
- Ball is sealing at a minimum water column 1m
- Vibration free even at high flow velocity
- FPM ball seal

Attention; make sure the inner diameter is not reduced by leaving residues of the fusion (danger of turbulence)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	z [mm]	
16	10	16	170	175 360 411	0.152	46	98	62	72	
20	15	16	150	175 360 412	0.153	46	101	62	73	
25	20	16	330	175 360 413	0.253	56	119	74	87	
32	25	16	390	175 360 414	0.395	67	130	78	94	
40	32	16	710	175 360 415	0.625	82	149	88	109	
50	40	16	900	175 360 416	1.045	98	162	94	116	
63	50	16	1390	175 360 417	1.990	120	195	113	141	

SYGEF® standard

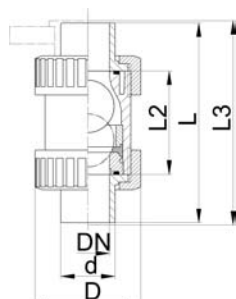
Ball check valve type 360 PVDF

With socket fusion spigots metric

Model:

- For easy installation and removal
- Ball is sealing at a minimum water column 1m
- Vibration free even at high flow velocity
- FPM ball seal

Attention; make sure the inner diameter is not reduced by leaving residues of the fusion (danger of turbulence)



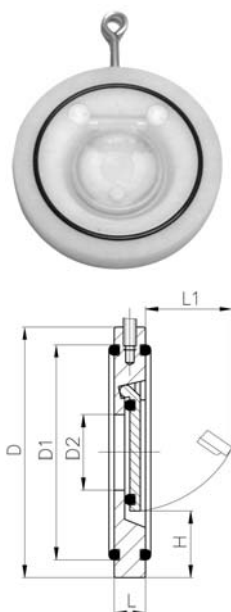
PF 2 35 195

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	L3 [mm]	
16	10	16	170	175 360 451	0.155	46	109	62	120	
20	15	16	150	175 360 452	0.156	46	119	62	130	
25	20	16	330	175 360 453	0.259	56	140	74	150	
32	25	16	390	175 360 454	0.406	67	150	78	160	
40	32	16	710	175 360 455	0.676	82	171	88	180	
50	40	16	900	175 360 456	1.086	98	191	94	200	
63	50	16	1390	175 360 457	2.029	120	220	113	230	

Check valves

SYGEF® standard Wafer check valve type 369 PVDF Without springs

J



Installation instruction:

- Installation between metric flange adaptors with smooth jointing face
- Centering by body diameter
- Supporting eyelets for simple mounting
- Sealing with O-rings
- Suitable for vertical and horizontal mounting
- 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
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)

Note:

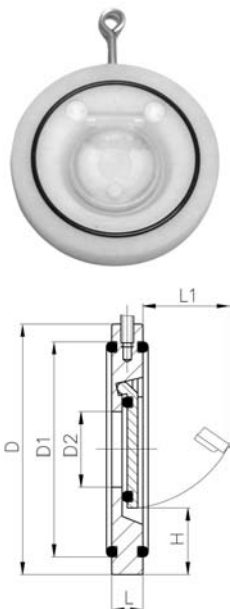
- In order to install the wafer check valves properly, Georg Fischer recommends flange adaptors of the next larger diameter of the valve (e.g. wafer check valve d90 with two flange adaptors d110)

d [mm]	DN [mm]	PN	FPM Code	kg	
40	32	6	175 369 022	0.170	
50	40	6	175 369 023	0.210	
63	50	6	175 369 024	0.330	
75	65	6	175 369 025	0.420	
90	80	6	175 369 026	0.510	
110	100	6	175 369 027	0.710	
140	125	6	175 369 029	0.970	
160	150	6	175 369 030	1.420	
225	200	6	175 369 031	2.710	
280	250	6	175 369 032	4.520	
315	300	6	175 369 033	6.900	

d [mm]	D [mm]	D1 [mm]	D2 [mm]	H [mm]	L [mm]	L1 [mm]	Opening pressure vertical without spring in [mbar]	Opening pressure horizontal without spring in [mbar]	Tightness from water column in m - PVDF [m H ₂ O]
40	85	59	18	25	15	22	10	1	2.0
50	95	72	22	28	16	25	10	1	2.0
63	109	86	32	29	18	37	10	1	2.0
75	129	105	40	31	20	50	10	1	2.0
90	144	119	54	32	20	61	10	1	2.0
110	164	146	70	31	23	77	10	1	2.0
140	195	173	92	35	23	94	10	1	2.0
160	220	197	112	35	26	115	10	1	2.0
225	275	255	154	38	35	152	18	1	2.0
280	330	312	192	41	40	180	18	1	2.0
315	380	363	227	41	45	215	18	1	2.0

d [mm]	Number of screws with washer	Torque [Nm]	Number of nut rotations after tightening by hand	
40	4xM16/90	10	1	
50	4xM16/95	12	1	
63	4xM16/110	15	1	
75	4xM16/140	18	1	
90	8xM16/150	20	1	
110	8xM16/160	22	1	
140	8xM16/180	25	1	
160	8xM20/200	30	1	
225	8xM20/220	60	1	
280	12xM20/240	60	1	
315	12xM20/160	60	1	

PF 2 35 195



SYGEF® standard Wafer check valve type 369 PVDF With V4A springs

J

Installation instruction:

- Installation between metric flange adaptors with smooth jointing face
- Centering by body diameter
- Supporting eyelets for simple mounting
- Sealing with O-rings
- Suitable for vertical and horizontal mounting
- 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
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)

Note:

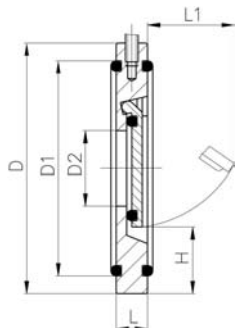
- In order to install the wafer check valves properly, Georg Fischer recommends flange adaptors of the next larger diameter of the valve (e.g. wafer check valve d90 with two flange adaptors d110)

d [mm]	DN [mm]	PN	FPM Code	kg	
40	32	6	175 369 062	0.170	
50	40	6	175 369 063	0.210	
63	50	6	175 369 064	0.330	
75	65	6	175 369 065	0.420	
90	80	6	175 369 066	0.510	
110	100	6	175 369 067	0.710	
140	125	6	175 369 069	0.970	
160	150	6	175 369 070	1.420	
225	200	6	175 369 071	2.710	
280	250	6	175 369 072	4.520	
315	300	6	175 369 073	6.900	

d [mm]	D [mm]	D1 [mm]	D2 [mm]	H [mm]	L [mm]	L1 [mm]	Tightness from water column in m - PVDF [m H ₂ O]	Opening pressure horizontal [mbar]	Number of screws with washer	
40	85	59	18	25	15	22	2.0	20	4xM16/90	
50	95	72	22	28	16	25	2.0	20	4xM16/95	
63	109	86	32	29	18	37	2.0	20	4xM16/110	
75	129	105	40	31	20	50	2.0	20	4xM16/140	
90	144	119	54	32	20	61	2.0	20	8xM16/150	
110	164	146	70	31	23	77	2.0	20	8xM16/160	
140	195	173	92	35	23	94	2.0	20	8xM16/180	
160	220	197	112	35	26	115	2.0	20	8xM20/200	
225	275	255	154	38	35	152	2.0	20	8xM20/220	
280	330	312	192	41	40	180	2.0	20	12xM20/240	
315	380	363	227	41	45	215	2.0	20	12xM20/260	

d [mm]	Torque [Nm]	Number of nut rotations after tightening by hand	
40	10		1
50	12		1
63	15		1
75	18		1
90	20		1
110	22		1
140	25		1
160	30		1
225	60		1
280	60		1
315	60		1

PF 2 35 195



SYGEF® standard Wafer check valve type 369 PVDF With hastelloy C springs

J

Installation instruction:

- Installation between metric flange adaptors with smooth jointing face
- Centering by body diameter
- Supporting eyelets for simple mounting
- Sealing with O-rings
- Suitable for vertical and horizontal mounting
- 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
- Wafer check valves without reset spring are not recommended for pulsating flows (production of noise)

Note:

- In order to install the wafer check valves properly, Georg Fischer recommends flange adaptors of the next larger diameter of the valve (e.g. wafer check valve d90 with two flange adaptors d110)

d [mm]	DN [mm]	PN	FPM Code	kg	
40	32	6	175 369 102	0.170	
50	40	6	175 369 103	0.210	
63	50	6	175 369 104	0.330	
75	65	6	175 369 105	0.420	
90	80	6	175 369 106	0.510	
110	100	6	175 369 107	0.710	
140	125	6	175 369 109	0.970	
160	150	6	175 369 110	1.420	
225	200	6	175 369 111	2.710	
280	250	6	175 369 112	4.520	
315	300	6	175 369 113	6.900	

d [mm]	D [mm]	D1 [mm]	D2 [mm]	H [mm]	L [mm]	L1 [mm]	Tightness from water column in m - PVDF [m H2O]	Opening pressure horizontal [mbar]	Number of screws with washer	
40	85	59	18	25	15	22	2.0	20	4xM16/90	
50	95	72	22	28	16	25	2.0	20	4xM16/95	
63	109	86	32	29	18	37	2.0	20	4xM16/110	
75	129	105	40	31	20	50	2.0	20	4xM16/140	
90	144	119	54	32	20	61	2.0	20	8xM16/150	
110	164	146	70	31	23	77	2.0	20	8xM16/160	
140	195	173	92	35	23	94	2.0	20	8xM16/180	
160	220	197	112	35	26	115	2.0	20	8xM20/200	
225	275	255	154	38	35	152	2.0	20	8xM20/220	
280	330	312	192	41	40	180	2.0	20	12xM20/240	
315	380	363	227	41	45	215	2.0	20	12xM20/260	

d [mm]	Torque [Nm]	Number of nut rotations after tightening by hand	
40	10		1
50	12		1
63	15		1
75	18		1
90	20		1
110	22		1
140	25		1
160	30		1
225	60		1
280	60		1
315	60		1

PF 2 35 195

Ball valves silicon free/paint compatible

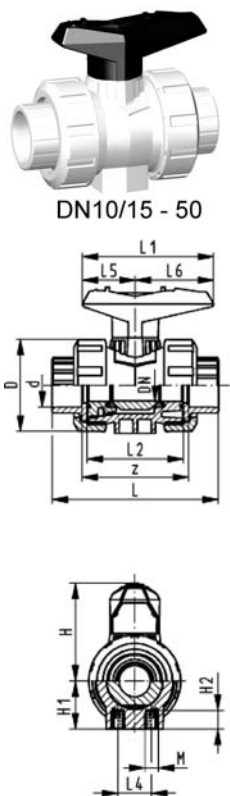
SYGEF® standard oil free Ball valve type 546 OF With fusion sockets metric

Model:

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

Option:

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



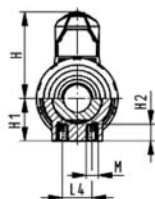
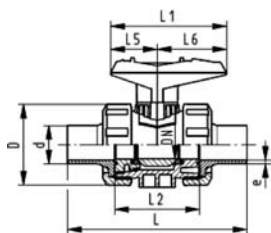
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg
16	10	16	71	175 546 471	0.195
20	15	16	185	175 546 472	0.200
25	20	16	350	175 546 473	0.300
32	25	16	700	175 546 474	0.440
40	32	16	1000	175 546 475	0.760
50	40	16	1600	175 546 476	1.060
63	50	16	3100	175 546 477	2.055

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]
16	50	57	27	12	93	77	56	25	32	45	M6	67
20	50	57	27	12	95	77	56	25	32	45	M6	66
25	58	67	30	12	109	97	65	25	39	58	M6	77
32	68	73	36	12	119	97	71	25	39	58	M6	83
40	84	90	44	15	135	128	85	45	54	74	M8	99
50	97	97	51	15	147	128	89	45	54	74	M8	105
63	124	116	64	15	168	152	101	45	66	87	M8	117

PF 2 35 540



DN10/15 - 50



SYGEF® standard silicone free Ball valve type 546 SF With butt fusion spigots IR-Plus metric

J

Model:

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

Option:

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

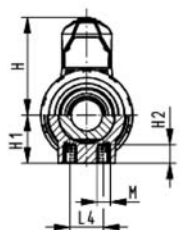
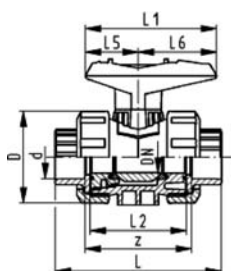
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg								
20	15	16	185	175 546 752	0.205								
25	20	16	350	175 546 753	0.310								
32	25	16	700	175 546 754	0.460								
40	32	16	1000	175 546 755	0.780								
50	40	16	1600	175 546 756	1.110								
63	50	16	3100	175 546 757	2.150								

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	e [mm]		
20	50	57	27	12	130	77	56	25	32	45	M6	1,9		
25	58	67	30	12	143	97	65	25	39	58	M6	1,9		
32	68	73	36	12	150	97	71	25	39	58	M6	2,4		
40	84	90	44	15	171	128	85	45	54	74	M8	2,4		
50	97	97	51	15	191	128	89	45	54	74	M8	3		
63	124	116	64	15	220	152	101	45	66	87	M8	3		

PF 2 35 540



DN10/15 - 50



SYGEF® standard silicone free Ball valve type 546 SF With fusion sockets metric

Model:

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

Option:

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

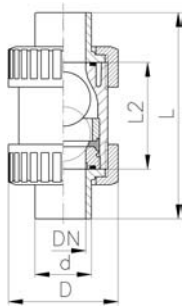
d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg
16	10	16	71	175 546 691	0.195
20	15	16	185	175 546 692	0.200
25	20	16	350	175 546 693	0.300
32	25	16	700	175 546 694	0.440
40	32	16	1000	175 546 695	0.760
50	40	16	1600	175 546 696	1.060
63	50	16	3100	175 546 697	2.055

d [mm]	D [mm]	H [mm]	H1 [mm]	H2 [mm]	L [mm]	L1 [mm]	L2 [mm]	L4 [mm]	L5 [mm]	L6 [mm]	M	z [mm]
16	50	79	27	12	93	77	56	25	32	45	M6	67
20	50	57	27	12	95	77	56	25	32	45	M6	66
25	58	67	30	12	109	97	65	25	39	58	M6	77
32	68	73	36	12	119	97	71	25	39	58	M6	83
40	84	90	44	15	135	128	85	45	54	74	M8	99
50	97	97	51	15	147	128	89	45	54	74	M8	105
63	124	116	64	15	168	152	101	45	66	87	M8	117

PF 2 35 540

Ball check valve

75 36 06



PF 2 37 207

SYGEF® standard silicone free Ball check valve type 360 PVDF SF With butt fusion spigots metric

J

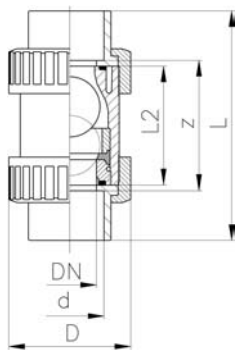
Model:

- For easy installation and removal
- Ball is sealing at a minimum water column of 2 m. Vibration free even at high velocity
- FPM ball seal

Attention; make sure the inner diameter is not reduced by leaving residues of the fusion (danger of turbulence)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	
16	10	16	170	175 360 671	0.155	46	109	62	
20	15	16	150	175 360 672	0.156	46	130	62	
25	20	16	330	175 360 673	0.259	56	144	74	
32	25	16	390	175 360 674	0.406	67	150	78	
40	32	16	710	175 360 675	0.676	82	171	88	
50	40	16	900	175 360 676	1.086	98	191	94	
63	50	16	1390	175 360 677	2.029	120	220	113	

75 36 06



PF 2 37 207

SYGEF® standard silicone free Ball check valve type 360 PVDF SF With fusion sockets metric

J

Model:

- For easy installation and removal
- Ball is sealing at a minimum water column of 2 m. Vibration free even at high velocity
- FPM ball seal

Attention; make sure the inner diameter is not reduced by leaving residues of the fusion (danger of turbulence)

d [mm]	DN [mm]	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code	kg	D [mm]	L [mm]	L2 [mm]	z [mm]	
16	10	16	170	175 360 611	0.152	46	98	62	72	
20	15	16	150	175 360 612	0.153	46	101	62	73	
25	20	16	330	175 360 613	0.253	56	119	74	87	
32	25	16	390	175 360 614	0.395	67	130	78	94	
40	32	16	710	175 360 615	0.663	82	149	88	109	
50	40	16	900	175 360 616	1.045	98	162	94	116	
63	50	16	1390	175 360 617	1.960	120	195	113	141	