

Product Range International 2016

PVDF SYGFE



SYGEF Standard

Piping systems in PVDF



Installation fittings



SYGEF Standard installation fitting type 310 (FPM black) PN16 for socket fusion systems

Range of use:

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

Model:

- Union end with fusion socket PVDF
- Material: PVDF
- Threaded outlet 1 1/4" NPSM
- supplied with sealing

Attention:

- sensor length depends on installation fitting

d (mm)	PN (bar)	Code	Weight (kg)	L1 (mm)	D (mm)	H (mm)	L (mm)	z (mm)	Sensor Type
20	16	735 310 036	0.250	90	45	76	128	50	flow X0, pH XX
25	16	735 310 037	0.355	100	55	78	142	55	flow X0, pH XX
32	16	735 310 038	0.427	110	62	81	156	60	flow X0, pH XX
40	16	735 310 039	0.540	110	75	85	160	60	flow X0, pH XX
50	16	735 310 040	0.850	120	84	89	176	65	flow X0, pH XX
63	16	735 310 041	1.182	130	101	95	194	70	flow X0, pH XX



SYGEF Standard installation fitting type 311 (FPM black)

Range of use:

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

Attention:

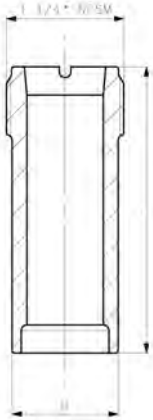
- sensor length depends on installation fitting

Model:

- Material: PVDF
- Threaded outlet 1 1/4" NPSM
- Suitable for backing flanges metric and inch
- Delivered with profile O-ring

d (inch)	DN (mm)	PN (bar)	d (mm)	Code	Weight (kg)	Sensor Type	D (mm)	H (mm)	L (mm)	L1 (mm)
2 1/2	65	10 - 16	75	735 311 042	0.845	flow X1	88	135	48	61
3	80	10 - 16	90	735 311 043	1.020	flow X1	102	141	48	69
4	100	10 - 16	110	735 311 044	1.192	flow X1	132	152	48	79
	100	10 - 16	125	735 311 045	0.990	flow X1	132	147	48	79
5	125	10 - 16	140	735 311 046	1.473	flow X1	157	153	48	94
6	150	10 - 16	160	735 311 047	1.742	flow X1	182	161	48	106
8	200	10 - 16	200	735 311 049	2.643	flow X1	236	175	48	134
8	200	10 - 16	225	735 311 050	2.074	flow X1	236	185	48	134

SYGEF Standard installation fitting type 314



Attention:

- pressure rate depends on quality of hot gas back welding
- please consult the instruction manual
- Installation by trained and certified welders only
- only for pressureless or low pressure application

Range of use:

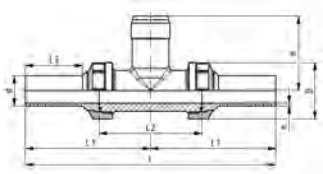
- Compatible Signet pH/ORP sensors: type 2724, 2725, 2726, 2734, 2736, 2735
- Compatible Signet flow sensors: type 2551, 2537, 515, 8510, 2536, 8512

Model:

- For conventional hot gas back welding according to DVS 2207 part 3
- Threaded outlet 1 1/4" NPSM
- Material: PVDF

DN	d (mm)	PN* (bar)	Code	Weight (kg)	Sensor Type	D (mm)	L (mm)
65 - 150	75 - 180	-	735 314 000	0.069	flow X0, pH XX	38	68
200 - 350	200 - 355	-	735 314 001	0.100	flow X1	38	102
350 - 600	400 - 630	-	735 314 002	0.173	flow X2	38	178

SYGEF Standard installation fitting type 318 (FPM black) PN16 for butt fusion systems



Model:

- Material: PVDF
- Threaded outlet 1 1/4" NPSM
- Union end with butt fusion spigot PVDF

Range of use:

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

Attention:

- sensor length depends on installation fitting
- supplied with sealing

FM	d (mm)	DN (mm)	PN (bar)	Code	Weight (kg)
BCF, IR	20	15	16	735 318 036	0.240
BCF, IR	25	20	16	735 318 037	0.318
BCF, IR	32	25	16	735 318 038	0.427
BCF, IR	40	32	16	735 318 039	0.588
BCF, IR	50	40	16	735 318 040	0.719
BCF, IR	63	50	16	735 318 041	1.088

L3 (mm)	L2 (mm)	e (mm)	Sensor Type	H (mm)	L (mm)	L1 (mm)	D (mm)
37	90	2	flow X0, pH XX	76	196	98	45
37	100	2	flow X0, pH XX	78	212	106	55
40	110	2	flow X0, pH XX	81	228	114	62
40	110	2	flow X0, pH XX	85	234	117	75
43	120	3	flow X0, pH XX	89	250	125	84
43	130	3	flow X0, pH XX	95	266	133	101

SYGEF Standard

Valves

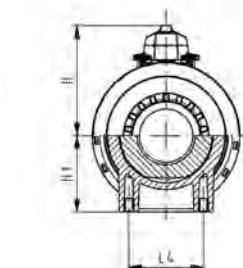
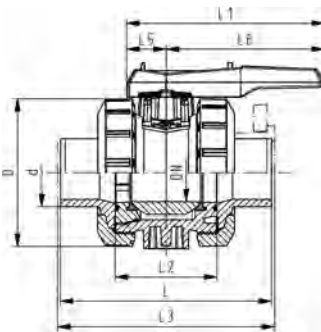
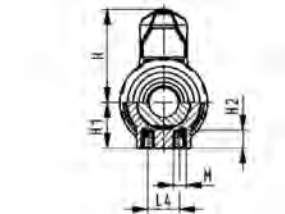
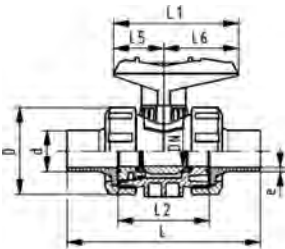


Valves SYGEF Standard

Hand operated valves Ball valves



DN10/15 - 50



SYGEF Standard
Ball valve type 546
With mounting inserts
With butt fusion spigots IR-Plus metric

Model:

- Material: PVDF
- 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

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)	FPM Code	Weight (kg)
20	15	16	185	175 546 272	0.201
25	20	16	350	175 546 273	0.301
32	25	16	700	175 546 274	0.438
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	1.958
75	65	16	5000	175 546 278	7.600
90	80	16	7000	175 546 279	7.457
110	100	16	11000	175 546 280	17.400

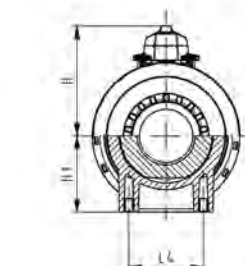
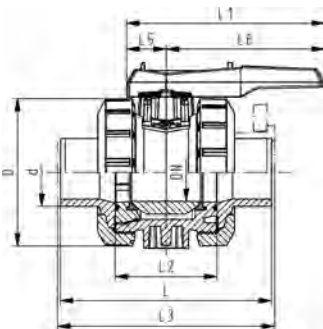
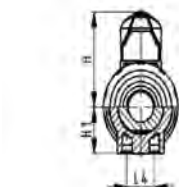
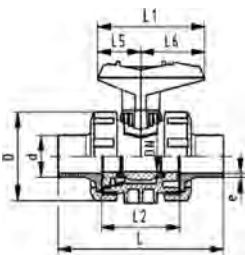
d (mm)	DN (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	15	50	57	27	12	130	77	56	25	32	45	M6	1.9	1/2
25	20	58	67	30	12	143	97	65	25	39	58	M6	1.9	3/4
32	25	68	73	36	12	150	97	71	25	39	58	M6	2.4	1
40	32	84	90	44	15	171	128	85	45	54	74	M8	2.4	1 1/4
50	40	97	97	51	15	191	128	89	45	54	74	M8	3.0	1 1/2
63	50	124	116	64	15	220	152	101	45	66	87	M8	3.0	2
75	65	166	149	85	15	266	270	136	70	64	206	M8	3.6	2 1/2
90	80	200	161	105	15	264	270	141	70	64	206	M8	4.3	3
110	100	238	178	123	22	301	320	164	120	64	256	M12	5.3	4



DN10/15 - 50



DN10/15 - 50



SYGEF Standard Ball valve type 546 With butt fusion spigots IR-Plus metric

Model:

- Material: PVDF
- 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:

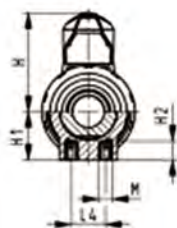
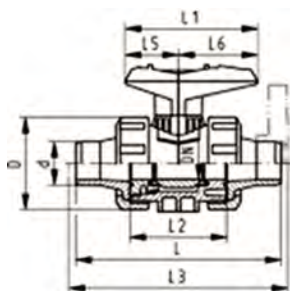
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
20	15	16	185	175 546 092	0.205
25	20	16	350	175 546 093	0.307
32	25	16	700	175 546 094	0.434
40	32	16	1000	175 546 095	0.760
50	40	16	1600	175 546 096	1.049
63	50	16	3100	175 546 097	1.947
75	65	16	5000	175 546 098	6.600
90	80	16	7000	175 546 099	9.700
110	100	16	11000	175 546 100	15.300

d (mm)	D (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	e (mm)	closest inch (inch)
20	50	57	27	130	77	56	25	32	45	1.9	½
25	58	67	30	143	97	65	25	39	58	1.9	¾
32	68	73	36	150	97	71	25	39	58	2.4	1
40	84	90	44	171	128	85	45	54	74	2.4	1 ¼
50	97	97	51	191	128	89	45	54	74	3.0	1 ½
63	124	116	64	220	152	101	45	66	87	3.0	2
75	166	149	85	266	270	136	70	64	206	3.6	2 ½
90	200	161	105	264	270	141	70	64	206	4.3	3
110	238	178	123	301	320	164	120	64	256	5.3	4



DN10/15 - 50



SYGEF Standard
Ball valve type 546
With mounting inserts
With socket fusion spigots metric

Model:

- Material: PVDF
- 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

Option:

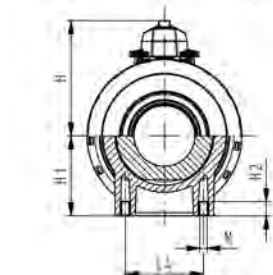
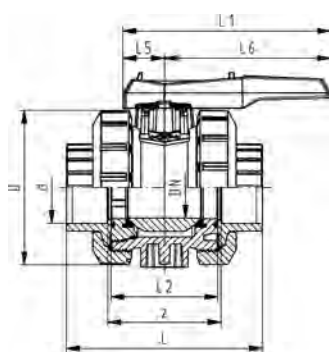
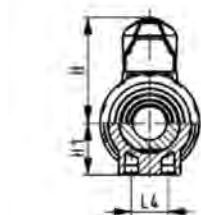
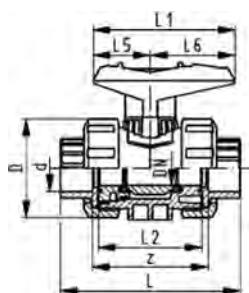
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (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	closest inch (inch)
16	50	57	27	12	110	77	56		25	32	45	M6	$\frac{3}{8}$
20	50	57	27	12	120	77	56	130	25	32	45	M6	$\frac{1}{2}$
25	58	67	30	12	139	97	65	150	25	39	58	M6	$\frac{3}{4}$
32	68	73	36	12	150	97	71	160	25	39	58	M6	1
40	84	90	44	15	170	128	85	180	45	54	74	M8	1 $\frac{1}{4}$
50	97	97	51	15	190	128	89	200	45	54	74	M8	1 $\frac{1}{2}$
63	124	116	64	15	220	152	101	230	45	66	87	M8	2



DN10/15 - 50



SYGEF Standard Ball valve type 546 With fusion sockets metric

Model:

- Material: PVDF
- 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:

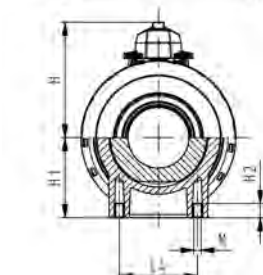
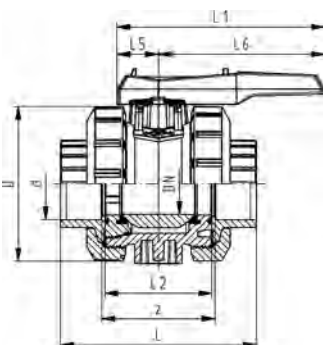
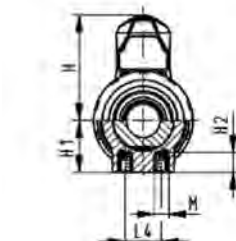
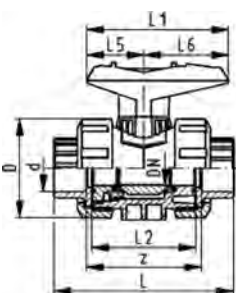
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
16	10	16	71	175 546 011	0.195
20	15	16	185	175 546 012	0.121
25	20	16	350	175 546 013	0.297
32	25	16	700	175 546 014	0.427
40	32	16	1000	175 546 015	0.760
50	40	16	1600	175 546 016	1.060
63	50	16	3100	175 546 017	1.855
75	65	16	5000	175 546 018	6.300
90	80	16	7000	175 546 019	9.500
110	100	16	11000	175 546 020	15.000

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	93	77	56	25	32	45	67	¾
20	50	57	27	95	77	56	25	32	45	66	½
25	58	67	30	109	97	65	25	39	58	77	¾
32	68	73	36	119	97	71	25	39	58	83	1
40	84	90	44	135	128	85	45	54	74	99	1 ¼
50	97	97	51	147	128	89	45	54	74	105	1 ½
63	124	116	64	168	152	101	45	66	87	117	2
75	166	149	85	233	270	136	70	64	206	167	2 ½
90	200	161	105	254	270	141	70	64	206	180	3
110	238	178	123	301	320	164	120	64	256	215	4



DN10/15 - 50



SYGEF Standard
Ball valve type 546
With mounting inserts
With fusion sockets metric

Model:

- Material: PVDF
- 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

Option:

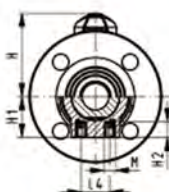
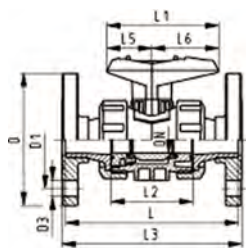
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
16	10	16	71	175 546 411	0.195
20	15	16	185	175 546 412	0.197
25	20	16	350	175 546 413	0.302
32	25	16	700	175 546 414	0.431
40	32	16	1000	175 546 415	0.760
50	40	16	1600	175 546 416	1.011
63	50	16	3100	175 546 417	1.856
75	65	16	5000	175 546 418	6.300
90	80	16	7000	175 546 419	9.500
110	100	16	11000	175 546 420	15.000

d (mm)	DN (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	closest inch (inch)
16	10	50	79	27	12	93	77	56	25	32	45	M6	67	$\frac{3}{8}$
20	15	50	57	27	12	95	77	56	25	32	45	M6	66	$\frac{1}{2}$
25	20	58	67	30	12	109	97	65	25	39	58	M6	77	$\frac{3}{4}$
32	25	68	73	36	12	119	97	71	25	39	58	M6	83	1
40	32	84	90	44	15	135	128	85	45	54	74	M8	99	1 $\frac{1}{4}$
50	40	97	97	51	15	147	128	89	45	54	74	M8	105	1 $\frac{1}{2}$
63	50	124	116	64	15	168	152	101	45	66	87	M8	117	2
75	65	166	149	85	15	233	270	136	70	64	206	M8	167	2 $\frac{1}{2}$
90	80	200	161	105	15	254	270	141	70	64	206	M8	180	3
110	100	238	178	123	22	301	320	164	120	64	256	M12	215	4



DN10/15 - 50



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

Model:

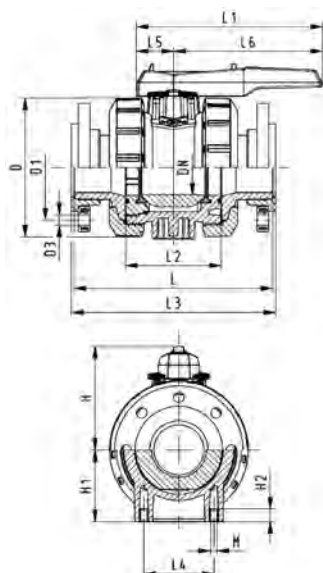
- Material: PVDF
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346
- Overall length EN 558

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)	FPM Code	Weight (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	1.489
50	40	16	1600	175 546 196	1.889
63	50	16	3100	175 546 197	3.097

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	closest inch (inch)
20	93	65	14	57	27	12	120	77	56	130	25	32	45	M6	½
25	103	75	14	67	30	12	140	97	65	150	25	39	58	M6	¾
32	115	85	14	73	36	12	150	97	71	160	25	39	58	M6	1
40	137	100	18	90	44	15	170	128	85	180	45	54	74	M8	1 ¼
50	147	110	18	97	51	15	190	128	89	200	45	54	74	M8	1 ½
63	162	125	18	116	64	15	220	152	101	230	45	66	87	M8	2



SYGEF Standard
Ball valve type 546
With mounting inserts
With backing flanges PP-st metric

Model:

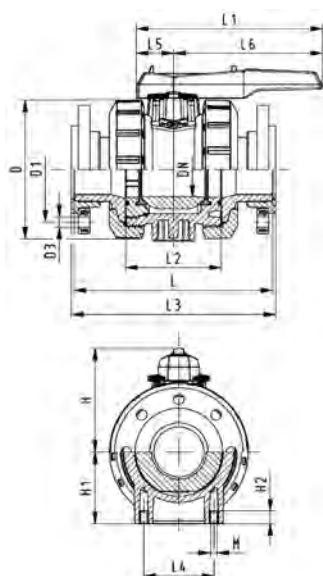
- Material: PVDF
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension: ISO 7005, 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	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
75	65	16	5000	175 546 808	11.700
90	80	16	7000	175 546 809	16.000
110	100	16	11000	175 546 810	23.900

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	280	270	136	290	70	64	206	8	2 ½
90	200	160	18	161	105	296	270	141	310	70	64	206	8	3
110	238	180	18	178	123	336	320	164	350	120	64	256	12	4



SYGEF Standard
Ball valve type 546
With mounting inserts
With backing flanges PP-st Inch ANSI

Model:

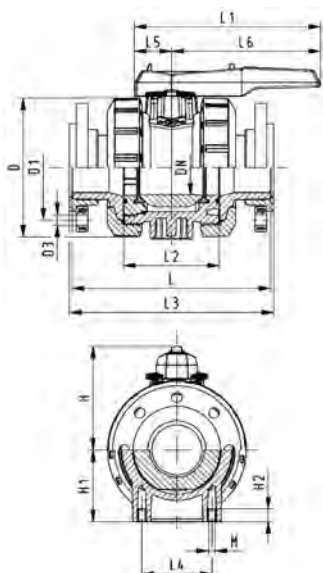
- Material: PVDF
- For easy installation and removal
- Ball seals PTFE
- Ball seals PVDF
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are **not compatible** with type 346 (DN10/15-50) resp. type 370 (DN65-100)
- Overall length according to EN 558
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

Option:

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

Size	DN	PN	kv-value	FPM	Weight
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
2 ½	65	16	5000	175 546 818	11.700
3	80	16	7000	175 546 819	16.000
4	100	16	11000	175 546 820	23.900

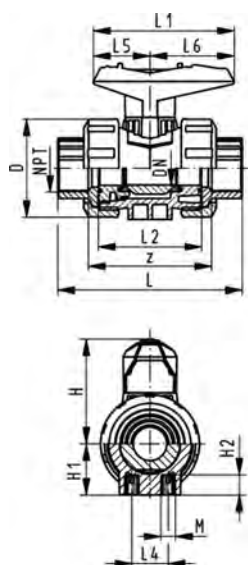
table continued on the next page



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)	M	closest inch (inch)
2 ½	166	140	19	149	85	280	270	136	290	70	64	206	8	2 ½
3	200	152	19	161	105	296	270	141	310	70	64	206	8	3
4	238	191	19	178	123	336	320	164	350	120	64	256	12	4



DN10/15 - 50



SYGEF Standard Ball valve type 546 With mounting inserts With threaded sockets NPT

Model:

- Material: PVDF
- 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

Option:

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

NPT (inch)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	FPM Code	Weight (kg)
¾	10	10	71	175 546 331	0.205
½	15	10	185	175 546 332	0.205
¾	20	10	350	175 546 333	0.325
1	25	10	700	175 546 334	0.490
1 ¼	32	10	1000	175 546 335	0.820
1 ½	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)
¾	50	57	27	12	96	77	56	25	32	45	M6	69
½	50	57	27	12	99	77	56	25	32	45	M6	64
¾	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 ¼	84	90	44	15	146	128	85	45	54	74	M8	101
1 ½	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

SYGEF Standard
Ball valve type 546
With lockable handle
With butt fusion spigots IR-Plus metric

Model:

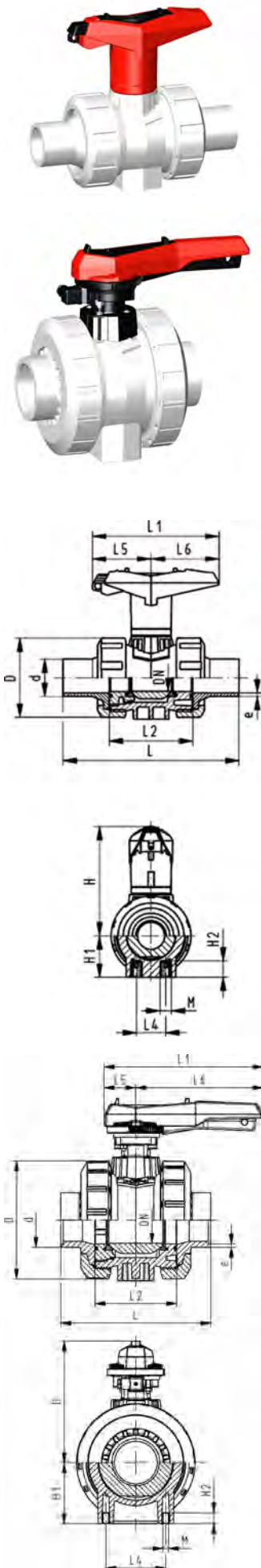
- Material: PVDF
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Lockable hand lever with ratchet settings

Option:

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

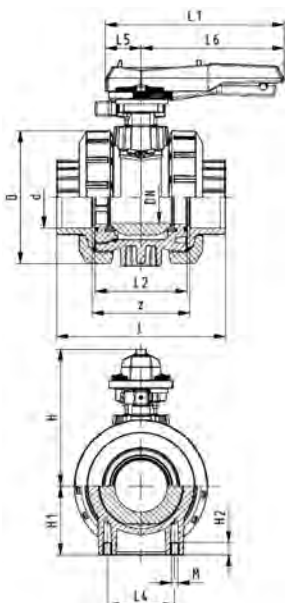
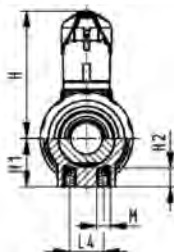
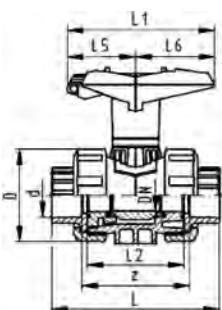
d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
20	15	16	185	175 546 442	0.205
25	20	16	350	175 546 443	0.310
32	25	16	700	175 546 444	0.460
40	32	16	1000	175 546 445	0.780
50	40	16	1600	175 546 446	1.110
63	50	16	3100	175 546 447	2.150
75	65	16	5000	175 546 448	7.000
90	80	16	7000	175 546 449	10.200
110	100	16	11000	175 546 450	15.800

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	79	27	12	130	87	56	25	42	45	M6	1.9	½
25	58	88	30	12	143	108	65	25	50	58	M6	1.9	¾
32	68	94	36	12	150	108	71	25	50	58	M6	2.4	1
40	84	113	44	15	171	140	85	45	66	75	M8	2.4	1 ¼
50	97	119	51	15	191	140	89	45	66	75	M8	3.0	1 ½
63	124	141	64	15	220	165	101	45	78	87	M8	3.0	2
75	166	224	85	15	266	270	136	70	64	206	M8	3.6	2 ½
90	200	235	105	15	264	270	141	70	64	206	M8	4.3	3
110	238	245	123	22	301	320	164	120	64	256	M12	5.3	4





DN10/15 - 50



SYGEF Standard
Ball valve type 546
With lockable handle
With fusion sockets metric

Model:

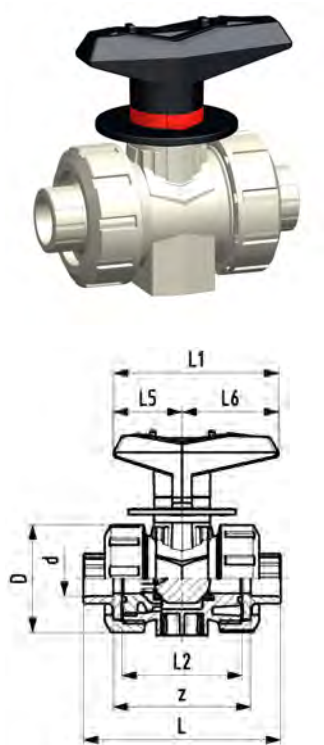
- Material: PVDF
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346
- Lockable hand lever with ratchet settings

Option:

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

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
16	10	16	71	175 546 431	0.206
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	1.903
75	65	16	5000	175 546 438	6.800
90	80	16	7000	175 546 439	10.000
110	100	16	11000	175 546 440	15.600

D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	closest inch (inch)
50	79	27	12	93	77	56	25	32	45	M6	67	$\frac{3}{8}$
50	79	27	12	95	77	56	25	32	45	M6	66	$\frac{1}{2}$
58	88	30	12	109	97	65	25	39	58	M6	77	$\frac{3}{4}$
68	94	36	12	119	97	71	25	39	58	M6	83	1
84	113	44	15	135	128	85	45	54	74	M8	99	1 $\frac{1}{4}$
97	119	51	15	147	128	89	45	54	74	M8	105	1 $\frac{1}{2}$
124	141	64	15	168	152	101	45	66	87	M8	117	2
166	224	85	15	233	270	136	70	64	206	M8	167	2 $\frac{1}{2}$
200	235	105	15	254	270	141	70	64	206	M8	180	3
238	245	123	22	301	320	164	120	64	256	M12	215	4



SYGEF Standard
Linear ball valve type 546
With mounting inserts
With fusion sockets metric

Model:

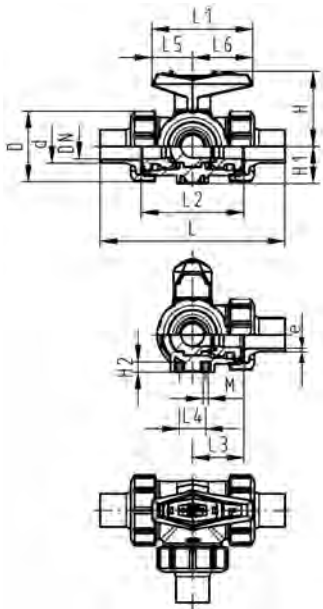
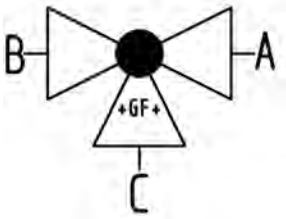
- Material: PVDF
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 90° with scale
- Integrated stainless steel mounting inserts

Option:

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

d	DN	PN	kv-value	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
20	15	10	185	800 052 632	0.197
25	20	10	350	800 052 633	0.302
32	25	10	700	800 052 634	0.431
40	32	10	1000	800 052 635	0.760
50	40	10	1600	800 052 636	1.011
63	50	10	3100	800 052 637	1.856

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	66	1/2
25	58	67	30	109	97	65	25	39	58	77	3/4
32	68	73	36	119	97	71	25	39	58	83	1
40	84	90	44	135	128	85	45	54	74	99	1 1/4
50	97	97	51	147	128	89	45	54	74	105	1 1/2
63	124	116	64	168	152	101	45	66	87	117	2



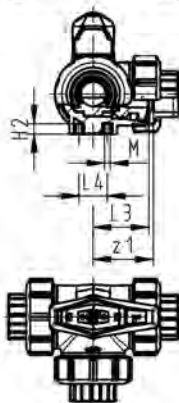
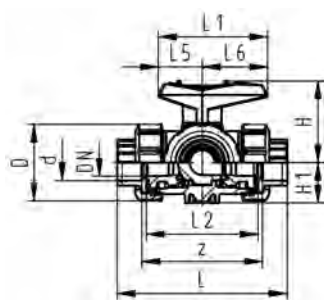
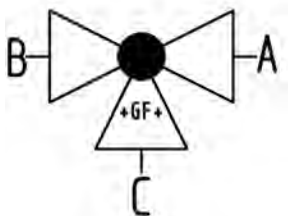
SYGEF Standard
3-Way ball valve type 543
Horizontal/L-port
With butt fusion spigots IR-Plus metric

Model:

- Material: PVDF
- 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 (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	FPM Code	Weight (kg)
20	15	10	75	175 543 052	0.332
25	20	10	150	175 543 053	0.480
32	25	10	280	175 543 054	0.735
40	32	10	480	175 543 055	1.226
50	40	10	620	175 543 056	1.859
63	50	10	1230	175 543 057	3.370

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 (mm)	e (mm)	closest inch (inch)
20	50	57	28	8	146	77	72	36	25	32	45	6	1.9	½
25	58	67	32	8	163	97	85	43	25	39	58	6	1.9	¾
32	68	73	36	8	178	97	98	49	25	39	58	6	2.4	1
40	84	90	45	9	204	128	118	59	45	54	74	8	2.4	1 ¼
50	97	97	51	9	237	128	135	68	45	54	74	8	3.0	1 ½
63	124	116	65	9	296	152	176	88	45	66	87	8	3.0	2



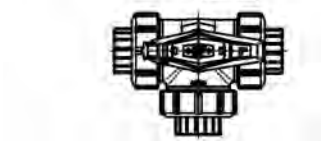
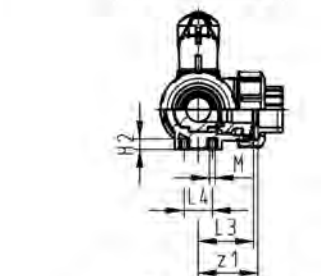
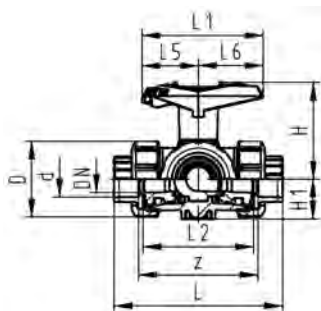
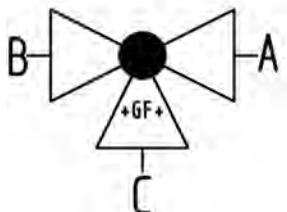
SYGEF Standard
3-Way ball valve type 543
Horizontal/L-port
With fusion sockets metric

Model:

- Material: PVDF
- 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 (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
16	10	10	50	175 543 011	0.281
20	15	10	75	175 543 012	0.290
25	20	10	150	175 543 013	0.461
32	25	10	280	175 543 014	0.654
40	32	10	480	175 543 015	1.199
50	40	10	620	175 543 016	1.647
63	50	10	1230	175 543 017	3.227

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 (mm)	z (mm)	z1 (mm)	closest inch (inch)
16	50	57	28	8	110	77	72	36	25	32	45	6	82	41	$\frac{3}{8}$
20	50	57	28	8	112	77	72	36	25	32	45	6	82	41	$\frac{1}{2}$
25	58	67	32	8	129	97	85	43	25	39	58	6	97	49	$\frac{3}{4}$
32	68	73	36	8	146	97	98	49	25	39	58	6	110	55	1
40	84	90	45	9	170	128	118	59	45	54	74	8	132	66	1 $\frac{1}{4}$
50	97	97	51	9	193	128	135	68	45	54	74	8	151	76	1 $\frac{1}{2}$
63	124	116	65	9	244	152	176	88	45	66	87	8	188	94	2



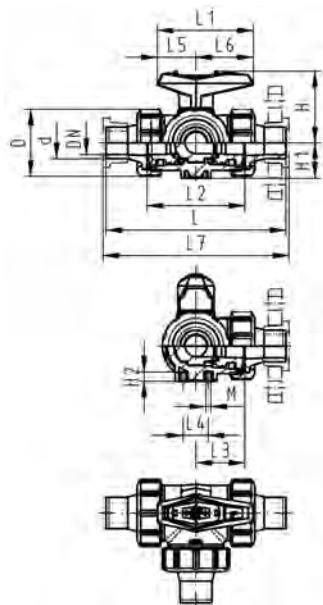
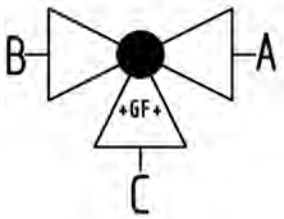
SYGEF Standard
3-Way ball valve type 543
Horizontal/L-port
With lockable handle
With fusion sockets metric

Model:

- Material: PVDF
- 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 (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
16	10	10	50	175 543 641	0.330
20	15	10	75	175 543 642	0.338
25	20	10	150	175 543 643	0.483
32	25	10	280	175 543 644	0.726
40	32	10	480	175 543 645	1.229
50	40	10	620	175 543 646	1.808
63	50	10	1230	175 543 647	3.502

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 (mm)	z (mm)	z1 (mm)	closest inch (inch)
16	50	79	28	8	110	87	72	36	25	42	45	6	82	41	3/8
20	50	79	28	8	112	87	72	36	25	42	45	6	82	41	1/2
25	58	88	32	8	129	108	85	43	25	50	58	6	97	49	3/4
32	68	94	36	8	146	108	98	49	25	50	58	6	110	55	1
40	84	113	45	9	170	141	118	59	45	66	75	8	132	66	1 1/4
50	97	119	51	9	193	141	135	68	45	66	75	8	151	76	1 1/2
63	124	141	65	9	244	165	176	88	45	78	87	8	188	94	2



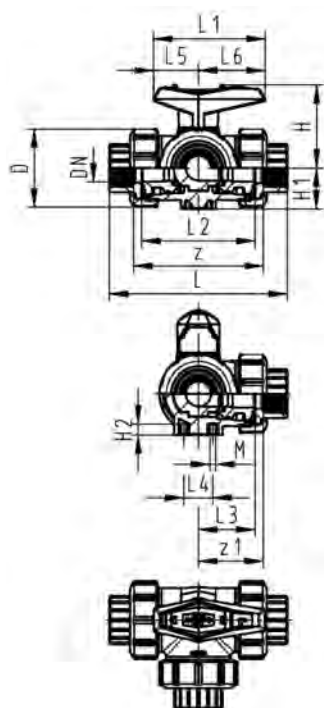
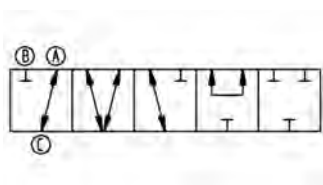
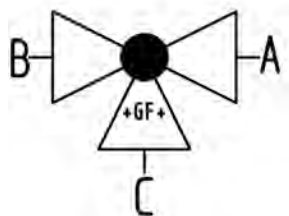
SYGEF Standard
3-Way ball valve type 543
Horizontal/L-port
With socket fusion spigots metric

Model:

- Material: PVDF
- 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 (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (L/min)	FPM Code	Weight (kg)
16	10	10	50	175 543 031	0.320
20	15	10	75	175 543 032	0.296
25	20	10	150	175 543 033	0.480
32	25	10	280	175 543 034	0.735
40	32	10	480	175 543 035	1.226
50	40	10	620	175 543 036	1.859
63	50	10	1230	175 543 037	3.624

d	D	H	H1	H2	L	L1	L2	L3	L4	L5	L6	L7	M	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(inch)
16	50	57	28	8	126	77	72	36	25	32	45	133	6	¾
20	50	57	28	8	136	77	72	36	25	32	45	144	6	½
25	58	67	32	8	159	97	85	43	25	39	58	170	6	¾
32	68	73	36	8	178	97	98	49	25	39	58	191	6	1
40	84	90	45	9	204	128	118	59	45	54	74	223	8	1 ¼
50	97	97	51	9	237	128	135	68	45	54	74	256	8	1 ½
63	124	116	65	9	296	152	176	88	45	66	87	319	8	2



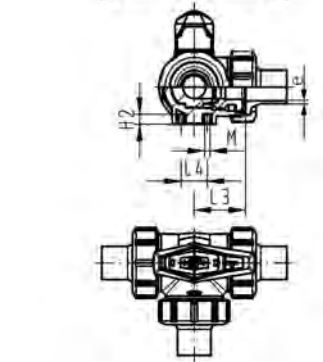
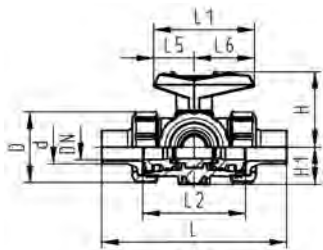
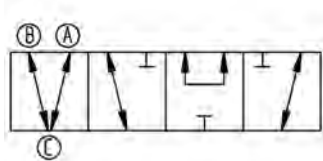
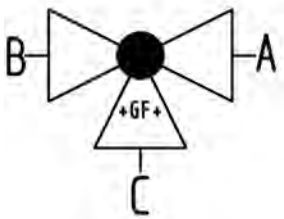
SYGEF Standard
3-Way ball valve type 543
Horizontal/L-port
With threaded sockets NPT

Model:

- Material: PVDF
- 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

NPT (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
3/8	10	10	50	175 543 071	0.312
1/2	15	10	75	175 543 072	0.320
3/4	20	10	150	175 543 073	0.461
1	25	10	280	175 543 074	0.704
1 1/4	32	10	480	175 543 075	1.199
1 1/2	40	10	620	175 543 076	1.778
2	50	10	1230	175 543 077	3.462

NPT (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	112	77	72	36	25	32	45	6	86	43
1/2	50	57	28	8	114	77	72	36	25	32	45	6	80	40
3/4	58	67	32	8	131	97	85	43	25	39	58	6	95	48
1	68	73	36	8	154	97	98	49	25	39	58	6	110	55
1 1/4	84	90	45	9	180	128	118	59	45	54	74	8	132	66
1 1/2	97	97	51	9	203	128	135	68	45	54	74	8	157	79
2	124	116	65	9	258	152	176	88	45	66	87	8	210	105



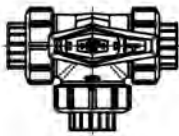
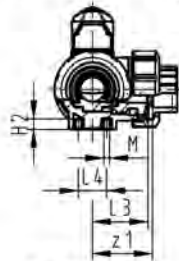
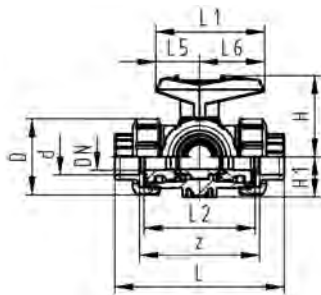
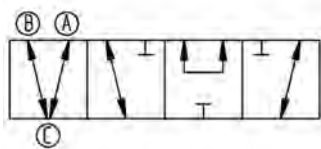
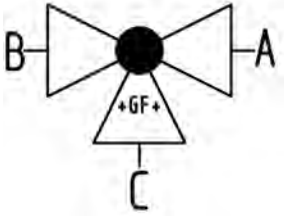
SYGEF Standard
3-Way ball valve type 543
Horizontal/T-port
With butt fusion spigots IR-Plus metric

Model:

- Material: PVDF
- 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 opened, see flow scheme

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
20	15	10	200	175 543 152	0.321
25	20	10	470	175 543 153	0.478
32	25	10	793	175 543 154	0.655
40	32	10	1290	175 543 155	1.212
50	40	10	1910	175 543 156	1.832
63	50	10	3100	175 543 157	3.566

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 (mm)	e (mm)	closest inch (inch)
20	50	57	28	8	146	77	72	36	25	32	45	6	1.9	1/2
25	58	67	32	8	163	97	85	43	25	39	58	6	1.9	3/4
32	68	73	36	8	178	97	98	49	25	39	58	6	2.4	1
40	84	90	45	9	204	128	118	59	45	54	74	8	2.4	1 1/4
50	97	97	51	9	237	128	135	68	45	54	74	8	3.0	1 1/2
63	124	116	65	9	296	152	176	88	45	66	87	8	3.0	2



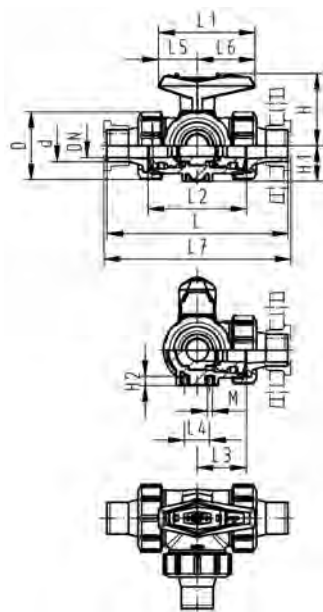
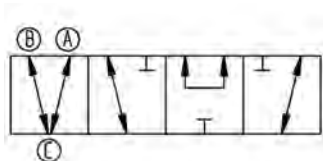
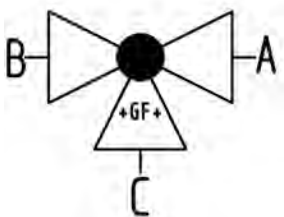
SYGEF Standard
3-Way ball valve type 543
Horizontal/T-port
With fusion sockets metric

Model:

- Material: PVDF
- 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)	FPM Code	Weight (kg)
16	10	10	140	175 543 111	0.283
20	15	10	200	175 543 112	0.288
25	20	10	470	175 543 113	0.417
32	25	10	793	175 543 114	0.644
40	32	10	1290	175 543 115	1.185
50	40	10	1910	175 543 116	1.613
63	50	10	3100	175 543 117	3.405

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 (mm)	z (mm)	z1 (mm)	closest inch (inch)
16	50	57	28	8	110	77	72	36	25	32	45	6	82	41	3/8
20	50	57	28	8	112	77	72	36	25	32	45	6	82	41	1/2
25	58	67	32	8	129	97	85	43	25	39	58	6	97	49	3/4
32	68	73	36	8	146	97	98	49	25	39	58	6	110	55	1
40	84	90	45	9	170	128	118	59	45	54	74	8	132	66	1 1/4
50	97	97	51	9	193	128	135	68	45	54	74	8	151	76	1 1/2
63	124	116	65	9	244	152	176	88	45	66	87	8	188	94	2



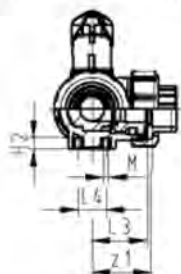
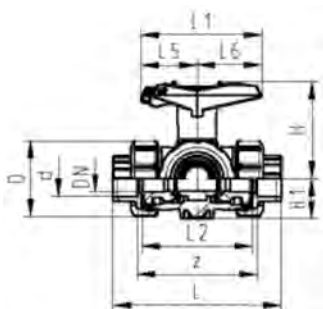
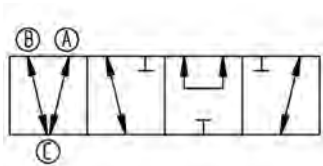
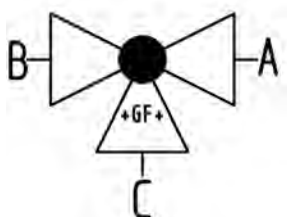
SYGEF Standard
3-Way ball valve type 543
Horizontal/T-port
With socket fusion spigots metric

Model:

- Material: PVDF
- 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 opened, see flow scheme

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
16	10	10	140	175 543 131	0.287
20	15	10	200	175 543 132	0.330
25	20	10	470	175 543 133	0.478
32	25	10	793	175 543 134	0.726
40	32	10	1290	175 543 135	1.212
50	40	10	1910	175 543 136	1.832
63	50	10	3100	175 543 137	3.566

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	126	77	72	36	25	32	45	133	6	$\frac{3}{8}$
20	50	57	28	8	136	77	72	36	25	32	45	144	6	$\frac{1}{2}$
25	58	67	32	8	159	97	85	43	25	39	58	170	6	$\frac{3}{4}$
32	68	73	36	8	178	97	98	49	25	39	58	191	6	1
40	84	90	45	9	204	128	118	59	45	54	74	223	8	1 $\frac{1}{4}$
50	97	97	51	9	237	128	135	68	45	54	74	256	8	1 $\frac{1}{2}$
63	124	116	65	9	296	152	176	88	45	66	87	319	8	2



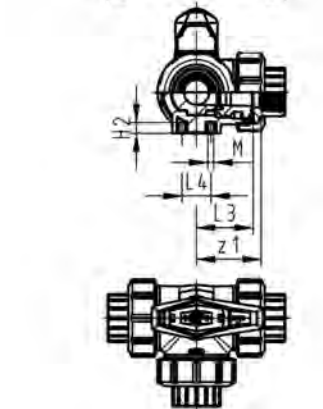
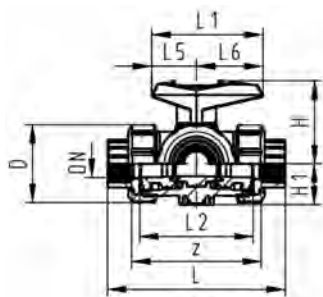
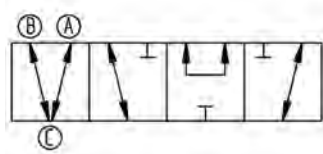
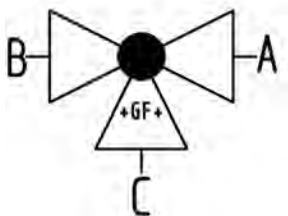
SYGEF Standard
3-Way ball valve type 543
Horizontal/T-port
With lockable handle
With fusion sockets metric

Model:

- Material: PVDF
- 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	DN	PN	kv-value	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
16	10	10	140	175 543 651	0.329
20	15	10	200	175 543 652	0.337
25	20	10	470	175 543 653	0.480
32	25	10	793	175 543 654	0.717
40	32	10	1290	175 543 655	1.215
50	40	10	1910	175 543 656	1.781
63	50	10	3100	175 543 657	3.444

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)	inch
															(inch)
16	50	79	28	8	110	87	72	36	25	42	45	6	82	41	$\frac{3}{8}$
20	50	79	28	8	112	87	72	36	25	42	45	6	82	41	$\frac{1}{2}$
25	58	88	32	8	129	108	85	43	25	50	58	6	97	49	$\frac{3}{4}$
32	68	94	36	8	146	108	98	49	25	50	58	6	110	55	1
40	84	113	45	9	170	141	118	59	45	66	75	8	132	66	$1 \frac{1}{4}$
50	97	119	51	9	193	141	135	68	45	66	75	8	151	76	$1 \frac{1}{2}$
63	124	141	65	9	244	165	176	88	45	78	87	8	188	94	2



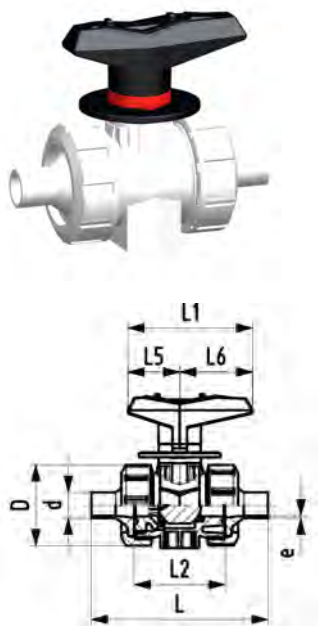
SYGEF Standard
3-Way ball valve type 543
Horizontal/T-port
With threaded sockets NPT

Model:

- Material: PVDF
- 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 opened, see flow scheme

NPT (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
3/8	10	10	140	175 543 171	0.311
1/2	15	10	200	175 543 172	0.319
3/4	20	10	470	175 543 173	0.458
1	25	10	793	175 543 174	0.695
1 1/4	32	10	1290	175 543 175	1.185
1 1/2	40	10	1910	175 543 176	1.751
2	50	10	3100	175 543 177	3.405

NPT (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	112	77	72	36	25	32	45	6	86	43
1/2	50	57	28	8	114	77	72	36	25	32	45	6	80	40
3/4	58	67	32	8	131	97	85	43	25	39	58	6	95	48
1	68	73	36	8	154	97	98	49	25	39	58	6	110	55
1 1/4	84	90	45	9	180	128	118	59	45	54	74	8	132	66
1 1/2	97	97	51	9	203	128	135	68	45	54	74	8	157	79
2	124	116	65	9	258	152	176	88	45	66	87	8	210	105



SYGEF Standard
Metering ball valve type 523
With mounting inserts
With butt fusion spigots IR-Plus metric

Model:

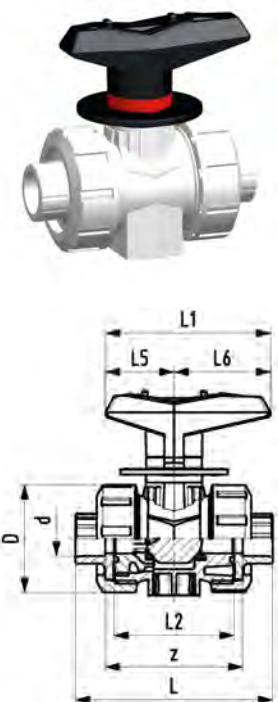
- Material: PVDF
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

- Other materials on demand

d	DN	PN	kv-value	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
20	15	16	11	175 523 492	0.200

d	D	H	H1	H2	L	L1	L2	L4	L5	L6	M	e	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	inch
													(inch)
20	50	68	27	12	130	77	56	25	32	45	M6	1.9	½



SYGEF Standard
Metering ball valve type 523
With mounting inserts
With fusion sockets metric

Model:

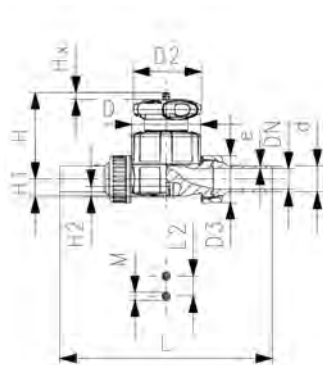
- Material: PVDF
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts
- Z-length, end connectors and union nuts **not compatible** to Type 323

Option:

- Other materials on demand

d	DN	PN	kv-value	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
16	10	16	11	175 523 411	0.200
20	15	16	20	175 523 412	0.200

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	68	27	12	93	77	56	25	32	45	M6	67	¾
20	50	68	27	12	95	77	56	25	32	45	M6	66	½



d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	43	73	14	12	196	25	M6	1.9	7	½
25	80	65	53	81	18	12	221	25	M6	1.9	10	¾
32	88	87	60	107	22	12	234	25	M6	2.4	13	1
40	101	87	74	115	26	15	260	45	M8	2.4	15	1 ¼
50	117	135	82	148	32	15	284	45	M8	3.0	19	1 ½
63	144	135	100	166	39	15	321	45	M8	3.0	25	2



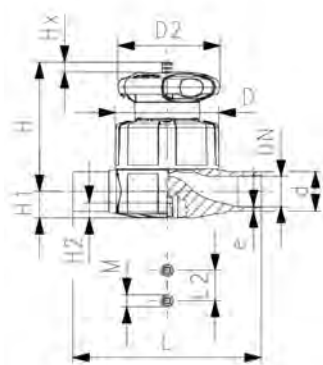
SYGEF Standard Diaphragm valve type 515 With butt fusion spigots metric

Model:

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

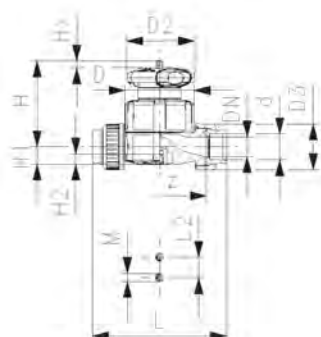
Option:

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



d (mm)	PTFE/EPDM Code	Weight (kg)
20	185 515 132	0.280
25	185 515 133	0.514
32	185 515 134	0.677
40	185 515 135	0.942
50	185 515 136	2.492
63	185 515 137	2.465

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M6	1.9	7	½
25	80	65	81	18	12	144	25	M6	1.9	10	¾
32	88	87	107	22	12	155	25	M6	2.4	13	1
40	101	87	115	26	15	176	45	M8	2.4	15	1 ¼
50	117	135	148	32	15	193	45	M8	3.0	19	1 ½
63	144	135	166	39	15	223	45	M8	3.0	25	2



SYGEF Standard Diaphragm valve type 514 With fusion sockets metric

Model:

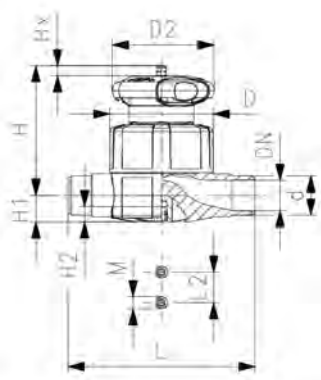
- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- For easy installation and removal
- Short overall length

Option:

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

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	PTFE/EPDM Code	Weight (lb)	PTFE/FPM Code	Weight (kg)
20	15	10	125	185 514 032	0.789	185 514 052	0.349
25	20	10	271	185 514 033	1.204	185 514 053	0.546
32	25	10	481	185 514 034	2.136	185 514 054	0.969
40	32	10	759	185 514 035	3.710	185 514 055	1.683
50	40	10	1263	185 514 036	6.464	185 514 056	2.932
63	50	10	1728	185 514 037	6.603	185 514 057	2.995

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	z (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	43	73	14	12	128	25	M6	100	7	½
25	80	65	53	81	18	12	150	25	M6	118	10	¾
32	88	87	60	107	22	12	162	25	M6	126	13	1
40	101	87	74	115	26	15	184	45	M8	144	15	1 ¼
50	117	135	82	148	32	15	210	45	M8	164	19	1 ½
63	144	135	100	166	39	15	248	45	M8	194	25	2



SYGEF Standard Diaphragm valve type 515 With socket fusion spigots metric

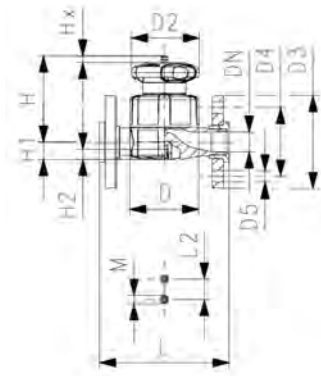
Model:

- Material: PVDF
- 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

d (mm)	PTFE/EPDM 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	185 515 032	0.273	65	65	73	14	12	124	25	M6	7	½
25	185 515 033	0.426	80	65	81	18	12	144	25	M6	10	¾
32	185 515 034	0.684	88	87	107	22	12	154	25	M6	13	1
40	185 515 035	1.415	101	87	115	26	15	174	45	M8	15	1 ¼
50	185 515 036	1.652	117	135	148	32	15	194	45	M8	19	1 ½
63	185 515 037	2.569	144	135	166	39	15	223	45	M8	25	2



SYGEF Standard
Diaphragm valve type 517
With backing flanges PP-V metric/BS

Model:

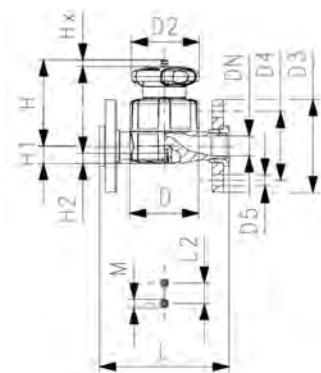
- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Joining faces flat/serrated
- Overall length EN 558
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, BS 4504 PN 10

Option:

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

d	DN	Size	PN	kv-value	PTFE/EPDM	Weight	PTFE/FPM	Weight
(mm)	(mm)	(inch)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
20	15	½	10	125	185 517 132	0.586	185 517 152	0.586
25	20	¾	10	271	185 517 133	0.796	185 517 153	0.796
32	25	1	10	481	185 517 134	1.064	185 517 154	1.064
40	32	1 ¼	10	759	185 517 135	2.001	185 517 155	2.001
50	40	1 ½	10	1263	185 517 136	2.369	185 517 156	2.369
63	50	2	10	1728	185 517 137	3.586	185 517 157	3.586

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



SYGEF Standard
Diaphragm valve type 517
With backing flanges PP-V Inch ANSI

Model:

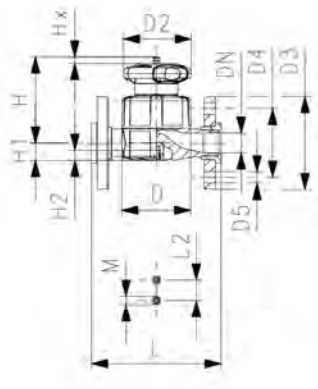
- Material: PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Jointing face serrated
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Option:

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

Size	DN	PN	kv-value	PTFE/EPDM	Weight	PTFE/FPM
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code
			(l/min)			
½	15	10	125	185 517 732	0.586	185 517 752
¾	20	10	271	185 517 733	0.796	185 517 753
1	25	10	481	185 517 734	1.050	185 517 754
1 ¼	32	10	759	185 517 735	2.001	185 517 755
1 ½	40	10	1263	185 517 736	3.147	185 517 756
2	50	10	1728	185 517 737	3.514	185 517 757

table continued on the next page



Size (inch)	D (mm)	D2 (mm)	D3 (mm)	D4 (mm)	D5 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	Lift = Hx (mm)
½	65	65	95	60	16	73	14	12	130	25	M6	7
¾	80	65	105	70	16	81	18	12	150	25	M6	10
1	88	87	115	79	16	107	22	12	160	25	M6	13
1 ¼	101	87	140	89	16	115	26	15	180	45	M8	15
1 ½	117	135	150	98	16	148	32	15	200	45	M8	19
2	144	135	165	121	19	166	39	15	230	45	M8	25

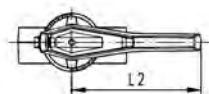
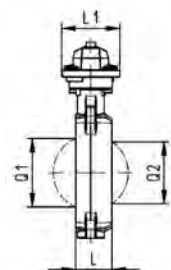
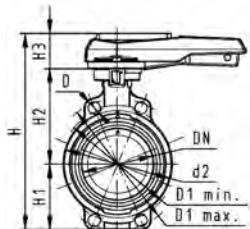
Butterfly valves



SYGEF Standard Butterfly valve type 567 Hand lever with ratchet settings

Model:

- Material: PVDF
- 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
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	PTFE Code	Weight (kg)
63	50	2	10	1470	175 567 002	175 567 202	1.080
75	65	2 1/2	10	2200	175 567 003	175 567 203	1.192
90	80	3	10	3000	175 567 004	175 567 204	1.992
110	100	4	10	6500	175 567 005	175 567 205	2.072
140	125	5	10	11500	175 567 006	175 567 206	2.667
160	150	6	10	16600	175 567 007	175 567 207	3.887
225	200	8	10	39600	175 567 008	175 567 208	7.242
280	250	10	10	55200	175 567 009	175 567 209	14.623
315	300	12	10	80000	175 567 010	175 567 210	19.513

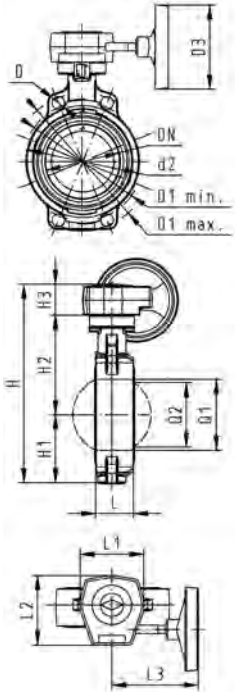
d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	Q1 (mm)	Q2 (mm)
63	104	19	120	125	264	77	134	54	45	106	205	40	
75	115	19	140	145	277	83	140	54	46	106	205	54	35
90	131	19	150	160	289	89	146	54	49	106	205	67	50
110	161	19	175	191	325	104	167	55	56	106	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
280	329	25	353	362	554	205	264	85	113	149	408	210	207
315	379	25	400	432	598	228	285	85	113	149	408	256	253



SYGEF Standard
Butterfly valve type 567
Reduction gear with handwheel

Model:

- Material: PVDF
- 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 (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)	PTFE Code	Weight (kg)
63	50	2	10	1470	175 567 022	3.118	175 567 222	3.118
75	65	2 ½	10	2200	175 567 023	3.230	175 567 223	3.230
90	80	3	10	3000	175 567 024	3.410	175 567 224	3.534
110	100	4	10	6500	175 567 025	4.062	175 567 225	4.062
140	125	5	10	11500	175 567 026	4.657	175 567 226	4.657
160	150	6	10	16600	175 567 027	5.974	175 567 227	5.877
225	200	8	10	39600	175 567 028	7.797	175 567 228	7.810
280	250	10	10	55200	175 567 029	15.441	175 567 229	15.410
315	300	12	10	80000	175 567 030	20.763	175 567 230	36.000

d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Q1 (mm)
63	104	19	120	125	150	278	77	134	50	45	110	120	155	40
75	115	19	140	145	150	291	83	140	50	46	110	120	155	54
90	131	19	150	160	150	303	89	146	50	49	110	120	155	67
110	160	19	175	191	150	339	104	167	50	56	110	120	155	88
140	187	23	210	216	150	365	117	181	50	64	110	120	155	113
160	215	24	241	241	150	387	130	189	50	72	110	120	155	139
225	267	23	290	295	150	436	158	210	50	73	110	120	155	178
280	329	25	353	362	200	529	205	264	55	113	130	140	200	210
315	379	25	400	432	200	573	228	285	55	113	130	140	200	256

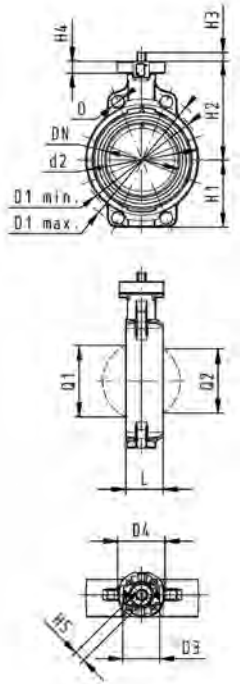
d (mm)	Q2 (mm)
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253



SYGEF Standard
Butterfly valve type 567
Bare shaft

Model:

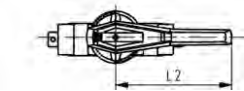
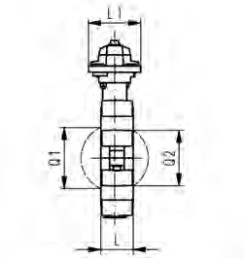
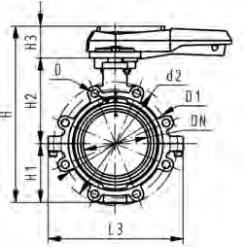
- Material: PVDF
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211



d (mm)	DN (mm)	Size (inch)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)	PTFE Code	Weight (kg)
63	50	2	10	1470	175 567 822	0.858	175 567 842	0.858
75	65	2 1/2	10	2200	175 567 823	0.970	175 567 843	0.970
90	80	3	10	3000	175 567 824	1.162	175 567 844	1.150
110	100	4	10	6500	175 567 825	1.802	175 567 845	1.802
140	125	5	10	11500	175 567 826	2.397	175 567 846	2.397
160	150	6	10	16600	175 567 827	3.617	175 567 847	3.617
225	200	8	10	39600	175 567 828	5.738	175 567 848	5.738
280	250	10	10	55200	175 567 829	12.673	175 567 849	12.673
315	300	12	10	80000	175 567 830	17.563	175 567 850	17.563

d (mm)	d2 (mm)	D (mm)	D1 min. (mm)	D1 max. (mm)	D3 (mm)	D4 (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	L (mm)	Q1 (mm)
63	104	19	120	125	70	90	222	77	134	27	23	11	45	40
75	115	19	140	145	70	90	235	83	140	27	23	11	46	54
90	131	19	150	160	70	90	247	89	146	27	23	11	49	67
110	161	19	175	191	70	90	287	104	167	16	23	14	56	88
140	187	23	210	216	70	90	313	117	181	16	23	14	64	113
160	215	24	241	241	70	90	335	130	189	19	23	17	72	139
225	267	23	290	295	70	90	387	158	210	19	23	17	73	178
280	329	25	353	362	102	125	509	205	264	40	23	22	113	210
315	379	25	400	432	102	125	553	228	285	40	23	22	113	256

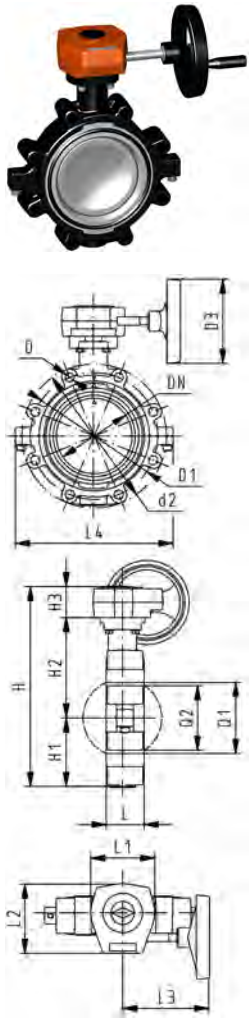
d (mm)	Q2 (mm)
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253



SYGEF Standard
Lugstyle butterfly valve type 568
Hand lever with ratchet settings

d	Size	DN	PN	kv-value	FPM	PTFE	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	Code	(lb)
				(l/min)			
63	2	50	10	1470	175 568 002	175 568 202	6.989
75	2 ½	65	10	2200	175 568 003	175 568 203	7.789
90	3	80	10	3000	175 568 004	175 568 204	10.119
110	4	100	10	6500	175 568 005	175 568 205	13.603
140	5	125	10	11500	175 568 006	175 568 206	17.970
160	6	150	10	16600	175 568 007	175 568 207	22.862
225	8	200	10	39600	175 568 008	175 568 208	36.423

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	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



SYGEF Standard
Lugstyle butterfly valve type 568
Reduction gear with handwheel

d	Size	DN	PN	kv-value	FPM	PTFE	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	Code	(lb)
				(l/min)			
63	2	50	10	1470	175 568 022	175 568 222	11.482
75	2 ½	65	10	2200	175 568 023	175 568 223	12.282
90	3	80	10	3000	175 568 024	175 568 224	14.612
110	4	100	10	6500	175 568 025	175 568 225	17.990
140	5	125	10	11500	175 568 026	175 568 226	22.357
160	6	150	10	16600	175 568 027	175 568 227	27.249
225	8	200	10	39600	175 568 028	175 568 228	39.626

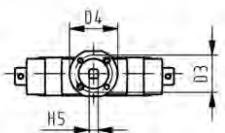
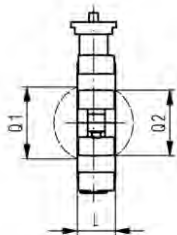
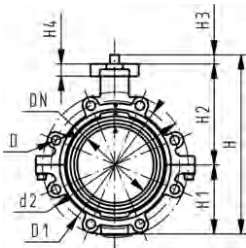
d	d2	D	D1	D3	H	H1	H2	H3	L	L1	L2	L3	L4	Q1	Q2
(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	150	M16	125	150	279	77	134	50	45	110	120	155	150	40	
75	170	M16	145	150	291	83	140	50	46	110	120	155	160	54	35
90	184	M16	160	150	303	89	146	50	49	110	120	155	205	67	50
110	216	M16	180	150	339	104	167	50	56	110	120	155	244	88	74
140	246	M16	210	150	366	117	181	50	64	110	120	155	272	113	97
160	273	M20	240	150	387	130	189	50	72	110	120	155	297	139	123
225	334	M20	295	150	436	158	210	50	73	110	120	155	360	178	169



SYGEF Standard
Lugstyle butterfly valve type 568
Bare shaft

Model:

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



d	Size	DN	PN	kv-value	FPM	Weight	PTFE	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	175 568 822	2.948	175 568 842	2.948
75	2 ½	65	10	2200	175 568 823	3.311	175 568 843	3.311
90	3	80	10	3000	175 568 824	4.368	175 568 844	4.368
110	4	100	10	6500	175 568 825	5.900	175 568 845	5.900
140	5	125	10	11500	175 568 826	7.881	175 568 846	7.881
160	6	150	10	16600	175 568 827	10.100	175 568 847	10.100
225	8	200	10	39600	175 568 828	15.714	175 568 848	15.714

d	d2	D	D1	D3	D4	H	H1	H2	H3	H4	L	Q1	Q2
(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	150	M16	125	70	90	238	77	134	27	23	45	40	
75	170	M16	145	70	90	250	83	140	27	23	46	54	35
90	184	M16	160	70	90	262	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	314	117	181	16	23	64	113	97
160	273	M20	240	70	90	338	130	189	19	23	72	139	123
225	334	M20	295	70	90	387	158	210	19	23	73	178	169

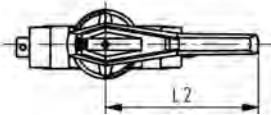
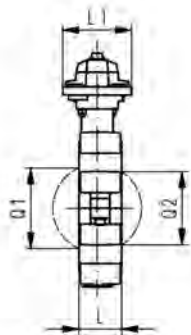
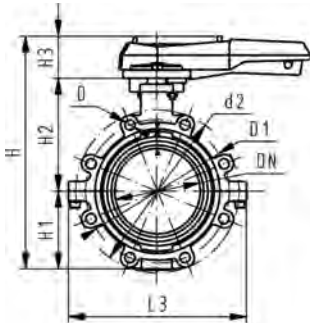


SYGEF Standard
Lugstyle butterfly valve 568 ANSI
Hand lever with ratchet settings

Model:

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

Model with PTFE seal in DN50 - DN80 on request



d	Size	DN	PN	kv-value	FPM	Weight	PTFE	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	175 568 102	3.170	175 568 302	3.170
75	2 ½	65	10	2200	175 568 103	3.533	175 568 303	3.533
90	3	80	10	3000	175 568 104	3.961	175 568 304	3.961
110	4	100	10	6500	175 568 105	6.170	175 568 305	6.170
140	5	125	10	11500	175 568 106	8.151	175 568 306	8.151
160	6	150	10	16600	175 568 107	10.370	175 568 307	10.370
225	8	200	10	39600	175 568 108	16.521	175 568 308	16.521

d	Size	d2	D	D1	H	H1	H2	H3	L	L1	L2	L3	Q1	Q2
(mm)	(inch)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	2	150	UNC 5/8	121	265	77	134	54	45	106	205	150	40	
75	2 ½	170	UNC 5/8	138	277	83	140	54	46	106	205	160	54	35
90	3	177	UNC 5/8	152	289	89	146	54	49	106	205	175	67	50
110	4	216	UNC 5/8	191	326	104	167	55	56	106	255	244	88	74
140	5	246	UNC 3/4	216	353	117	181	55	64	106	255	272	113	97
160	6	273	UNC 3/4	241	374	130	189	55	72	106	255	297	139	123
225	8	334	UNC 3/4	298	435	158	210	67	73	140	408	360	178	169

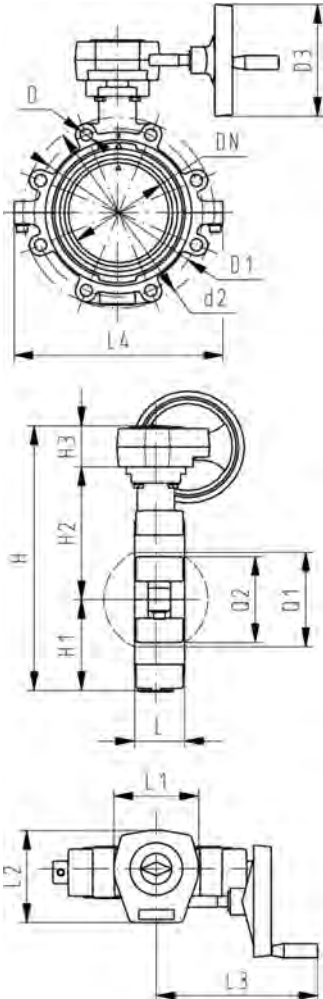


SYGEF Standard
Lugstyle butterfly valve 568 ANSI
Reduction gear with handwheel

Model:

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

Model with PTFE seal in DN50 - DN80 on request



d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)	PTFE Code	Weight (kg)
63	2	50	10	1470	175 568 122	5.208	175 568 322	5.208
75	2 ½	65	10	2200	175 568 123	5.571	175 568 323	5.571
90	3	80	10	3000	175 568 124	5.999	175 568 324	5.999
110	4	100	10	6500	175 568 125	8.160	175 568 325	8.160
140	5	125	10	11500	175 568 126	10.141	175 568 326	10.141
160	6	150	10	16600	175 568 127	12.360	175 568 327	12.360
225	8	200	10	39600	175 568 128	17.974	175 568 328	17.974

d (mm)	Size (inch)	d2 (mm)	D	D1	D3	H	H1	H2	H3	L	L1	L2	L3	L4	Q1
63	2	150	UNC 5/8	121	150	279	77	134	50	45	110	120	155	150	40
75	2 ½	170	UNC 5/8	138	150	291	83	140	50	46	110	120	155	160	54
90	3	177	UNC 5/8	152	150	303	89	146	50	49	110	120	155	175	67
110	4	216	UNC 5/8	191	150	339	104	167	50	56	110	120	155	244	88
140	5	246	UNC 3/4	216	150	366	117	181	50	64	110	120	155	272	113
160	6	273	UNC 3/4	241	150	387	130	189	50	72	110	120	155	297	139
225	8	334	UNC 3/4	298	150	436	158	210	50	73	110	120	155	360	178

d (mm)	Size (inch)	Q2 (mm)
63	2	
75	2 ½	35
90	3	50
110	4	74
140	5	97
160	6	123
225	8	169

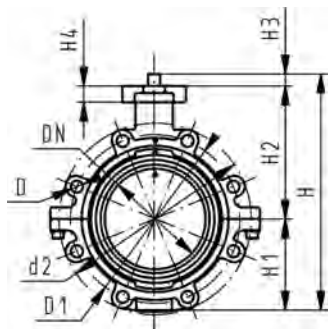


SYGEF Standard
Lugstyle butterfly valve 568 ANSI
Bare shaft

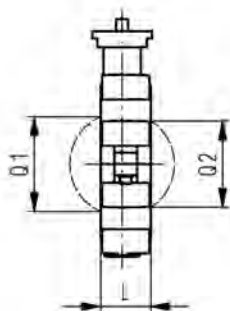
Model:

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

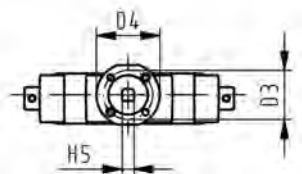
Model with PTFE seal in DN50 - DN80 on request



d	Size	DN	PN	kv-value	FPM	Weight	PTFE	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	Code	(kg)
				(l/min)				
63	2	50	10	1470	175 568 922	2.948	175 568 942	2.948
75	2 ½	65	10	2200	175 568 923	3.311	175 568 943	3.311
90	3	80	10	3000	175 568 924	3.739	175 568 944	3.739
110	4	100	10	6500	175 568 925	5.900	175 568 945	5.900
140	5	125	10	11500	175 568 926	7.881	175 568 946	7.881
160	6	150	10	16600	175 568 927	10.100	175 568 947	10.100
225	8	200	10	39600	175 568 928	15.714	175 568 948	15.714



d	Size	d2	D	D1	D3	D4	H	H1	H2	H3	H4	L	Q1	Q2
(mm)	(inch)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	2	150	UNC 5/8	121	70	90	238	77	134	27	23	45	40	
75	2 ½	170	UNC 5/8	138	70	90	250	83	140	27	23	46	54	35
90	3	177	UNC 5/8	152	70	90	247	89	146	27	23	49	67	50
110	4	216	UNC 5/8	191	70	90	287	104	167	16	23	56	88	74
140	5	246	UNC 3/4	216	70	90	314	117	181	16	23	64	113	97
160	6	273	UNC 3/4	241	70	90	338	130	189	19	23	72	139	123
225	8	334	UNC 3/4	298	70	90	387	158	210	19	23	73	178	169





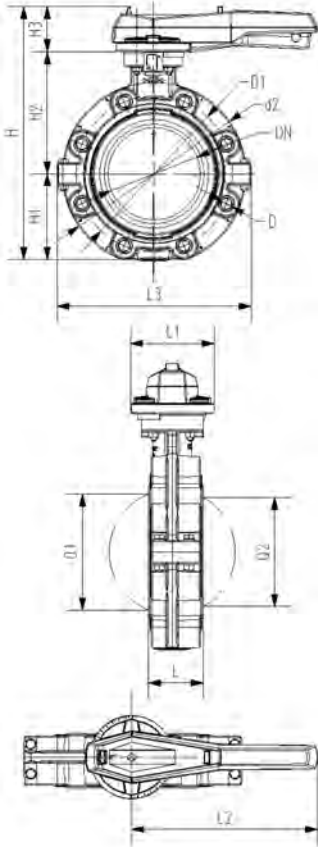
SYGEF Standard
Lugstyle butterfly valve type 578
Hand lever with ratchet settings

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

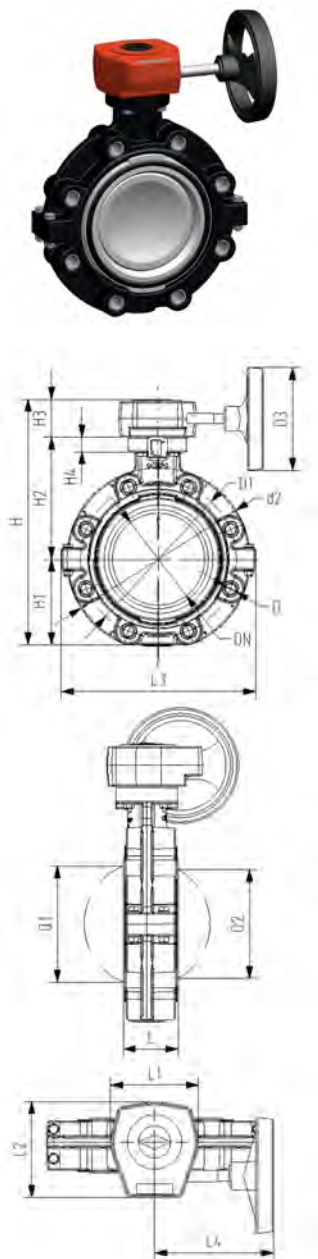
Option:

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



d	Size	DN	PN	kv-value	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	175 578 002	1.800
75	2 ½	65	10	2200	175 578 003	1.895
90	3	80	10	3000	175 578 004	2.251
110	4	100	10	6500	175 578 005	3.146
140	5	125	10	11500	175 578 006	4.660
160	6	150	10	16600	175 578 007	6.430
225	8	200	10	39600	175 578 008	8.625
280	10	250	10	55200	175 578 009	19.528
315	12	300	10	80000	175 578 010	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	326	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



SYGEF Standard
Lugstyle butterfly valve type 578
Reduction gear with handwheel

Model:

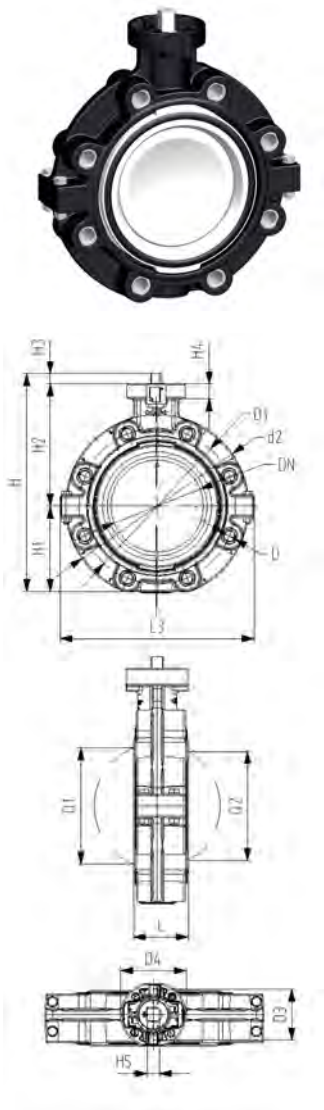
- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10

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)	FPM Code	Weight (kg)
63	2	50	10	1470	175 578 022	3.562
75	2 ½	65	10	2200	175 578 023	3.721
90	3	80	10	3000	175 578 024	3.929
110	4	100	10	6500	175 578 025	4.834
140	5	125	10	11500	175 578 026	6.348
160	6	150	10	16600	175 578 027	8.109
225	8	200	10	39600	175 578 028	9.353
280	10	250	10	55200	175 578 029	21.210
315	12	300	10	80000	175 578 030	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	150	261	77	134	50	45	110	120	165	155	40	
75	180	M16	145	150	273	83	140	50	46	110	120	182	155	54	35
90	195	M16	160	150	285	89	146	50	49	110	120	210	155	67	50
110	226	M16	180	150	323	106	167	50	56	110	120	240	155	88	74
140	258	M16	210	150	352	121	181	50	64	110	120	272	155	113	97
160	284	M20	240	150	372	133	189	50	72	110	120	300	155	139	123
225	341	M20	295	150	419	159	210	50	73	110	120	360	155	178	169
280	412	M20	350	200	524	205	264	55	113	130	140	440	200	210	207
315	482	M20	400	200	574	234	285	55	113	130	140	510	200	256	253



SYGEF Standard

Lugstyle butterfly valve type 578

Bare shaft

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension: ISO 7005 PN10, EN 1092 PN10, DIN 2501 PN10
- Interface F07 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211

Option:

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

d	Size	DN	PN	kv-value	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	175 578 822	1.299
75	2 ½	65	10	2200	175 578 823	1.456
90	3	80	10	3000	175 578 824	1.701
110	4	100	10	6500	175 578 825	2.606
140	5	125	10	11500	175 578 826	4.120
160	6	150	10	16600	175 578 827	5.881
225	8	200	10	39600	175 578 828	7.125
280	10	250	10	55200	175 578 829	17.880
315	12	300	10	80000	175 578 830	24.416

d	d2	D	D1	D3	D4	H	H1	H2	H3	H4	H5	L	Q1	Q2
(mm)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	160	M16	125	70	90	238	77	134	27	23	11	45	40	
75	180	M16	145	70	90	250	83	140	27	23	11	46	54	35
90	195	M16	160	70	90	262	89	146	27	23	11	49	67	50
110	226	M16	180	70	90	289	106	167	16	23	14	56	88	74
140	258	M16	210	70	90	318	121	181	16	23	14	64	113	97
160	284	M20	240	70	90	341	133	189	19	23	17	72	139	123
225	341	M20	295	70	90	388	159	210	19	23	17	73	178	169
280	412	M20	350	102	125	509	205	264	40	23	22	113	210	207
315	482	M20	400	102	125	559	234	285	40	23	22	113	256	253



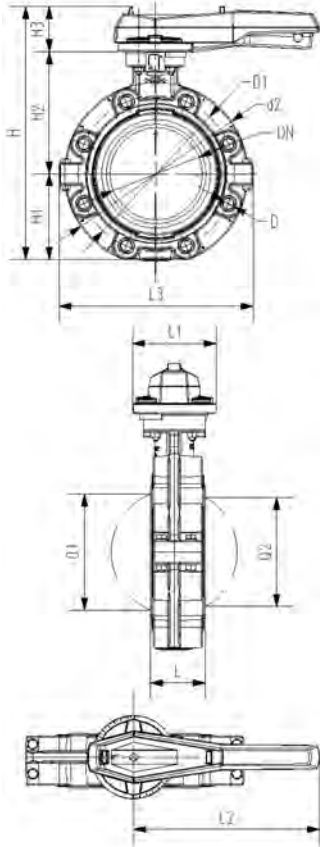
SYGEF Standard
Lugstyle butterfly valve 578 ANSI
Hand lever with ratchet settings

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 ANSI/ASME B 16.5 Class 150
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

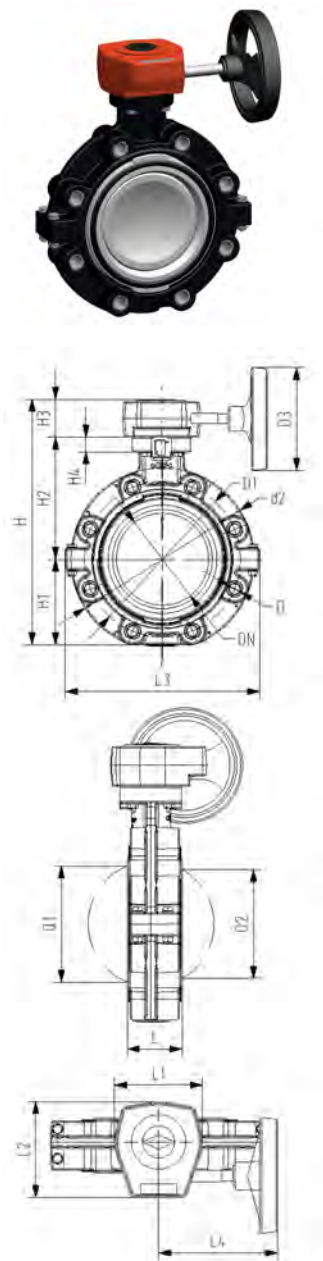
Option:

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



d	Size	DN	PN	kv-value	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	175 578 102	1.800
75	2 ½	65	10	2200	175 578 103	1.895
90	3	80	10	3000	175 578 104	2.251
110	4	100	10	6500	175 578 105	3.146
140	5	125	10	11500	175 578 106	4.660
160	6	150	10	16600	175 578 107	6.430
225	8	200	10	39600	175 578 108	8.625
280	10	300	10	55200	175 578 109	19.528
315	12	250	10	80000	175 578 110	26.106

d	Size	d2	D	D1	H	H1	H2	H3	L	L1	L2	L3	Q1	Q2
(mm)	(inch)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	2	160	UNC 5/8	120.6	265	77	134	54	45	106	205	165	40	
75	2 ½	180	UNC 5/8	139.7	277	83	140	54	46	106	205	182	54	35
90	3	195	UNC 5/8	152.4	289	89	146	54	49	106	205	210	67	50
110	4	226	UNC 5/8	190.5	328	106	167	55	56	106	255	240	88	74
140	5	258	UNC 3/4	215.9	357	121	181	55	64	106	255	272	113	97
160	6	284	UNC 3/4	241.3	377	133	189	55	72	106	255	300	139	123
225	8	341	UNC 3/4	298.4	436	159	210	67	73	140	408	360	178	169
280	10	412	UNC 7/8	362.0	536	205	264	67	114	140	408	440	210	207
315	12	482	UNC 7/8	431.8	586	234	285	67	115	140	408	510	256	253



SYGEF Standard
Lugstyle butterfly valve 578 ANSI
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 ANSI/ASME B 16.5 Class 150

d (mm)	Size (inch)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
63	2	50	10	1470	175 578 122	3.562
75	2 ½	65	10	2200	175 578 123	3.721
90	3	80	10	3000	175 578 124	3.929
110	4	100	10	6500	175 578 125	4.834
140	5	125	10	11500	175 578 126	6.348
160	6	150	10	16600	175 578 127	8.109
225	8	200	10	39600	175 578 128	9.353
280	10	250	10	55200	175 578 129	21.210
315	12	300	10	80000	175 578 130	27.746

d (mm)	Size (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)
63	2	160	UNC 5/8	120.6	150	261	77	134	50	45	110	120	165	155
75	2 ½	180	UNC 5/8	139.7	150	273	83	140	50	46	110	120	182	155
90	3	195	UNC 5/8	152.4	150	285	89	146	50	49	110	120	210	155
110	4	226	UNC 5/8	190.5	150	323	106	167	50	56	110	120	240	155
140	5	258	UNC 3/4	215.9	150	352	121	181	50	64	110	120	272	155
160	6	284	UNC 3/4	241.3	150	372	133	189	50	72	110	120	300	155
225	8	341	UNC 3/4	298.4	150	419	159	210	50	73	110	120	360	155
280	10	412	UNC 7/8	362.0	200	524	205	264	55	113	130	140	440	200
315	12	482	UNC 7/8	431.8	200	574	234	285	55	113	130	140	510	200

d (mm)	Size (inch)	Q1 (mm)	Q2 (mm)
63	2	40	
75	2 ½	54	35
90	3	67	50
110	4	88	74
140	5	113	97
160	6	139	123
225	8	178	169
280	10	210	207
315	12	256	253



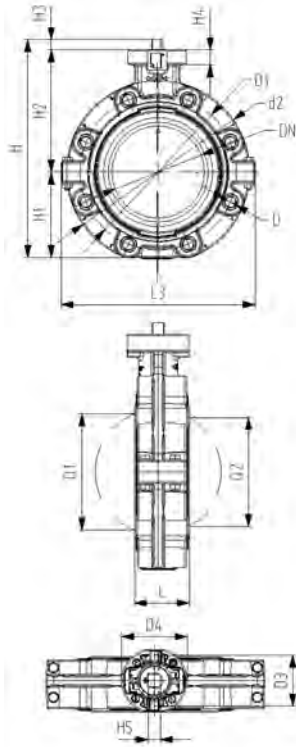
SYGEF Standard
Lugstyle butterfly valve 578 ANSI
Bare shaft

Model:

- Housing material: PP-GF30 with SS316 lug-inserts
- Overall length according to EN 558, ISO 5752 (DN50 - 200 line 25, DN250 - 300 line 10)
- Connecting dimension ANSI/ASME B 16.5 Class 150
- Interface F10 for the dimensions DN250-300 according to DIN/ISO 5211
- Interface F07 according to DIN/ISO 5211

Option:

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



d	Size	DN	PN	kv-value	FPM	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	175 578 922	1.299
75	2 ½	65	10	2200	175 578 923	1.456
90	3	80	10	3000	175 578 924	1.701
110	4	100	10	6500	175 578 925	2.606
140	5	125	10	11500	175 578 926	4.120
160	6	150	10	16600	175 578 927	5.881
225	8	200	10	39600	175 578 928	7.125
280	10	250	10	55200	175 578 929	17.880
315	12	300	10	80000	175 578 930	24.416

d	Size	d2	D	D1	D3	D4	H	H1	H2	H3	H4	H5	L	L3
(mm)	(inch)	(mm)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
63	2	160	UNC 5/8	120.6	70	90	238	77	134	27	23	11	45	165
75	2 ½	180	UNC 5/8	139.7	70	90	250	83	140	27	23	11	46	182
90	3	195	UNC 5/8	152.4	70	90	262	89	146	27	23	11	49	210
110	4	226	UNC 5/8	190.5	70	90	289	106	167	16	23	14	56	240
140	5	258	UNC 3/4	215.9	70	90	318	121	181	16	23	14	64	272
160	6	285	UNC 3/4	241.3	70	90	341	133	189	19	23	17	72	300
225	8	341	UNC 3/4	298.4	70	90	388	159	210	19	23	17	73	360
280	10	412	UNC 7/8	362.0	102	125	509	205	264	40	23	22	113	440
315	12	482	UNC 7/8	431.8	102	125	559	234	285	40	23	22	113	510

d	Size	Q1	Q2
(mm)	(inch)	(mm)	(mm)
63	2	40	
75	2 ½	54	35
90	3	67	50
110	4	88	74
140	5	113	97
160	6	139	123
225	8	178	169
280	10	210	207
315	12	256	253

Cone check valves

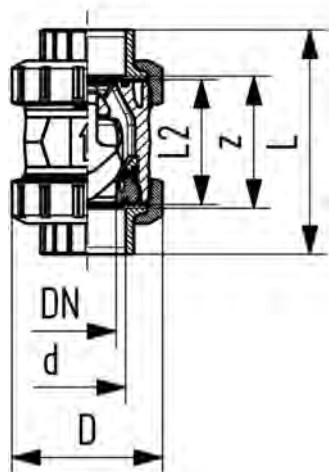


SYGEF Standard Check valve type 562 With fusion sockets metric

Model:

- Material: PVDF
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d	DN	PN	kv-value	FPM	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	175 562 011	0.160	50	93	56	67	$\frac{3}{8}$
20	15	16	180	175 562 012	0.160	50	95	56	66	$\frac{1}{2}$
25	20	16	380	175 562 013	0.340	58	109	65	77	$\frac{3}{4}$
32	25	16	460	175 562 014	0.360	68	119	71	83	1
40	32	16	850	175 562 015	0.670	84	135	85	99	1 $\frac{1}{4}$
50	40	16	1080	175 562 016	0.990	97	147	89	105	1 $\frac{1}{2}$
63	50	16	1670	175 562 017	1.770	124	168	101	117	2
75	65	16	2950	175 562 018	3.630	166	235	136	167	2 $\frac{1}{2}$
90	80	16	3600	175 562 019	5.800	200	255	141	180	3
110	100	16	4150	175 562 020	9.450	238	305	164	215	4

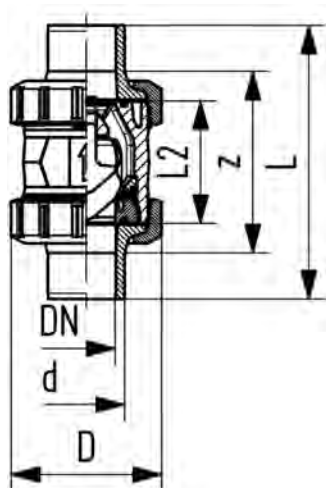


SYGEF Standard
Check valve type 562
With socket fusion spigots metric

Model:

- Material: PVDF
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d	DN	PN	kv-value	FPM	Weight	D	L	L2	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	inch
			(l/min)						(inch)
16	10	16	190	175 562 051	0.160	50	110	56	$\frac{3}{8}$
20	15	16	180	175 562 052	0.170	50	120	56	$\frac{1}{2}$
25	20	16	380	175 562 053	0.370	58	139	65	$\frac{3}{4}$
32	25	16	460	175 562 054	0.400	68	150	71	1
40	32	16	850	175 562 055	0.670	84	170	85	1 $\frac{1}{4}$
50	40	16	1080	175 562 056	1.030	97	190	89	1 $\frac{1}{2}$
63	50	16	1670	175 562 057	1.830	124	220	101	2

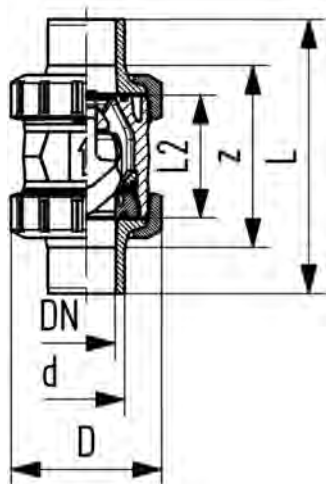


SYGEF Standard
Check valve type 562
With butt fusion spigots IR-Plus metric

Model:

- Material: PVDF
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d	DN	PN	kv-value	FPM	Weight	D	L	L2	e	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)							(inch)
20	15	16	180	175 562 092	0.160	50	130	56	1.9	$\frac{1}{2}$
25	20	16	380	175 562 093	0.350	58	143	65	1.9	$\frac{3}{4}$
32	25	16	460	175 562 094	0.380	68	150	71	2.4	1
40	32	16	850	175 562 095	0.660	84	171	85	2.4	1 $\frac{1}{4}$
50	40	16	1080	175 562 096	1.000	97	191	89	3.0	1 $\frac{1}{2}$
63	50	16	1670	175 562 097	1.790	124	220	101	3.0	2
75	65	16	2950	175 562 098	3.680	166	270	136	3.6	2 $\frac{1}{2}$
90	80	16	3600	175 562 099	5.760	200	265	141	4.3	3
110	100	16	4150	175 562 100	9.270	238	305	164	5.3	4

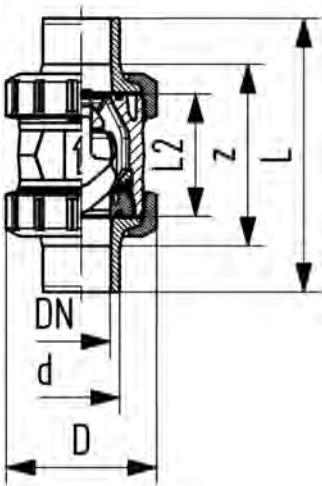


SYGEF Standard
Check valve type 561
With butt fusion spigots IR-Plus metric

Model:

- Material: PVDF
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



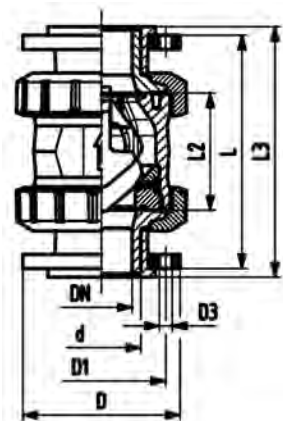
d	DN	PN	kv-value	FPM	Weight	D	L	L2	e	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)							(inch)
20	15	16	180	175 561 092	0.160	50	130	56	1.9	½
25	20	16	380	175 561 093	0.350	58	143	65	1.9	¾
32	25	16	460	175 561 094	0.380	68	150	71	2.4	1
40	32	16	850	175 561 095	0.660	84	171	85	2.4	1 ¼
50	40	16	1080	175 561 096	1.000	97	191	89	3.0	1 ½
63	50	16	1670	175 561 097	1.790	124	220	101	3.0	2
75	65	16	2950	175 561 098	3.680	166	270	136	3.6	2 ½
90	80	16	3600	175 561 099	5.760	200	265	141	4.3	3
110	100	16	4150	175 561 100	9.270	238	305	164	5.3	4



SYGEF Standard
Check valve type 561
With backing flanges PP-st metric

Model:

- Material: PVDF
- 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
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501



d	DN	PN	kv-value	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
75	65	16	2950	175 561 288	9.230
90	80	16	3600	175 561 289	13.430
110	100	16	4150	175 561 290	18.200

d	D	D1	D3	H	H1	L	L1	L2	L3	L4	L5	L6	M	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		inch
														(inch)
75	166	145	18	149	85	280	270	136	290	70	64	206	M8	2 ½
90	200	160	18	161	105	296	270	141	310	70	64	206	M8	3
110	238	180	18	178	123	336	320	164	350	120	64	206	M12	4

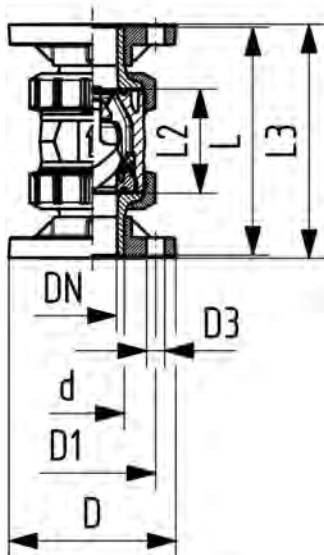


SYGEF Standard
Check valve type 561
With fixed flanges metric

Model:

- Material: PVDF
- 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
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d	DN	PN	kv-value	FPM	Weight	D	D1	D3	L	L2	L3	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)									(inch)
20	15	16	180	175 561 192	0.420	93	65	14	120	56	130	½
25	20	16	380	175 561 193	0.700	103	75	14	140	65	150	¾
32	25	16	460	175 561 194	0.860	115	85	14	150	71	160	1
40	32	16	850	175 561 195	1.430	137	100	18	170	85	180	1 ¼
50	40	16	1080	175 561 196	1.940	147	110	18	190	89	200	1 ½
63	50	16	1670	175 561 197	3.160	162	125	18	220	101	230	2

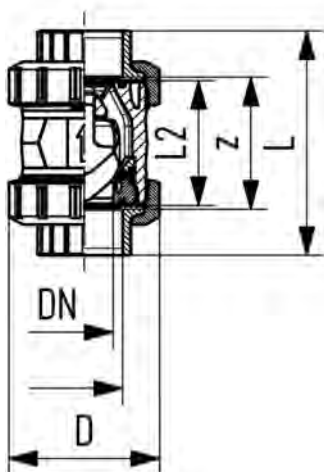


SYGEF Standard
Check valve type 561
With threaded sockets NPT

Model:

- Material: PVDF
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



NPT	DN	PN	kv-value	FPM	Weight	D	L	L2	z
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)
			(l/min)						
¾	10	10	190	175 561 111	0.150	50	96	56	69
½	15	10	180	175 561 112	0.160	50	99	56	64
¾	20	10	380	175 561 113	0.350	58	111	65	76
1	25	10	460	175 561 114	0.390	68	127	71	83
1 ¼	32	10	850	175 561 115	0.680	84	146	85	101
1 ½	40	10	1080	175 561 116	1.000	97	157	89	111
2	50	10	1670	175 561 117	1.770	124	183	101	135

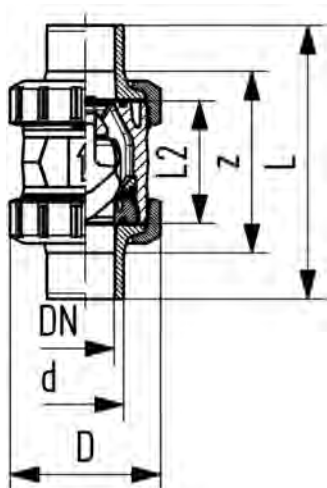


SYGEF Standard
Check valve type 561
With socket fusion spigots metric

Model:

- Material: PVDF
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
16	10	16	190	175 561 051	0.160	50	110	56	$\frac{3}{8}$
20	15	16	180	175 561 052	0.170	50	120	56	$\frac{1}{2}$
25	20	16	380	175 561 053	0.370	58	139	65	$\frac{3}{4}$
32	25	16	460	175 561 054	0.400	68	150	71	1
40	32	16	850	175 561 055	0.670	84	170	85	1 $\frac{1}{4}$
50	40	16	1080	175 561 056	1.030	97	190	89	1 $\frac{1}{2}$
63	50	16	1670	175 561 057	1.830	124	220	101	2

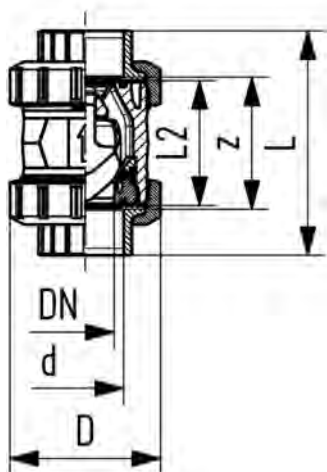


SYGEF Standard
Check valve type 561
With fusion sockets metric

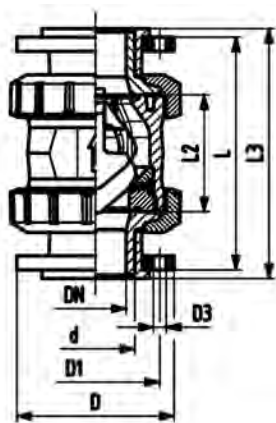
Model:

- Material: PVDF
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	z (mm)	closest inch (inch)
16	10	16	190	175 561 011	0.160	50	93	56	67	$\frac{3}{8}$
20	15	16	180	175 561 012	0.160	50	95	56	66	$\frac{1}{2}$
25	20	16	380	175 561 013	0.340	58	109	65	77	$\frac{3}{4}$
32	25	16	460	175 561 014	0.360	68	119	71	83	1
40	32	16	850	175 561 015	0.670	84	135	85	99	1 $\frac{1}{4}$
50	40	16	1080	175 561 016	0.990	97	147	89	105	1 $\frac{1}{2}$
63	50	16	1670	175 561 017	1.770	124	168	101	117	2



SYGEF Standard
Check valve type 562
With backing flanges PP-st metric

Model:

- Material: PVDF
- 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
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)

d	DN	PN	kv-value	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)

75	65	16	2950	175 562 288	9.230
90	80	16	3600	175 562 289	13.430
110	100	16	4150	175 562 290	18.200

d	D	D1	D3	H	H1	L	L1	L2	L3	L4	L5	L6	M	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(inch)

75	166	145	18	149	85	280	270	136	290	70	64	206	M8	1 ¼
90	200	160	18	161	105	296	270	141	310	70	64	206	M8	1 ½
110	238	180	18	178	123	336	320	164	350	120	64	206	M12	2

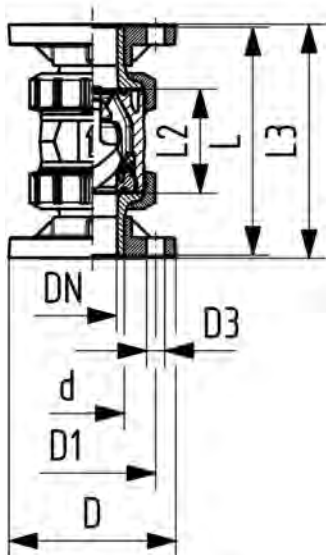


SYGEF Standard
Check valve type 562
With fixed flanges metric

Model:

- Material: PVDF
- 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
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d	DN	PN	kv-value	FPM	Weight	D	D1	D3	L	L2	L3	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)									(inch)
20	15	16	180	175 562 192	0.420	93	65	14	120	56	130	½
25	20	16	380	175 562 193	0.700	103	75	14	140	65	150	¾
32	25	16	460	175 562 194	0.860	115	85	14	150	71	160	1
40	32	16	850	175 562 195	1.430	137	100	18	170	85	180	1 ¼
50	40	16	1080	175 562 196	1.940	147	110	18	190	89	200	1 ½
63	50	16	1670	175 562 197	3.160	162	125	18	220	101	230	2

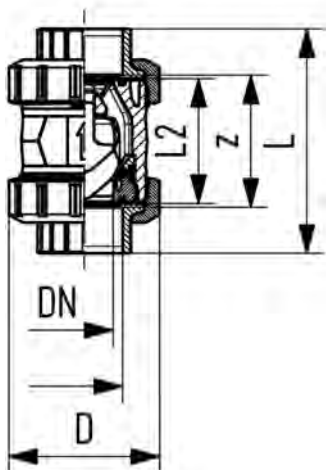


SYGEF Standard
Check valve type 562
With threaded sockets NPT

Model:

- Material: PVDF
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



NPT	DN	PN	kv-value	FPM	Weight	D	L	L2	z
(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)
			(l/min)						
¾	10	10	190	175 562 111	0.150	50	96	56	69
½	15	10	180	175 562 112	0.160	50	99	56	64
¾	20	10	380	175 562 113	0.350	58	111	65	76
1	25	10	460	175 562 114	0.390	68	127	71	83
1 ¼	32	10	850	175 562 115	0.680	84	146	85	101
1 ½	40	10	1080	175 562 116	1.000	97	157	89	111
2	50	10	1670	175 562 117	1.770	124	183	101	135

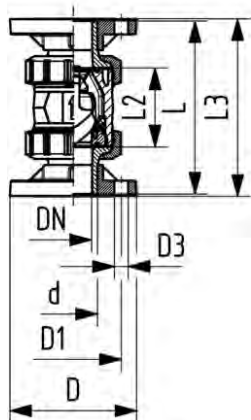


SYGEF Standard
Check valve type 562
With fixed flanges ANSI

Model:

- Material: PVDF
- 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
- Installation length according to EN 558-1
- Z-length, end connectors and union nuts **not** compatible with type 360
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d	DN	PN	kv-value	FPM	D	D1	D3	L	L2	L3	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)								(inch)
20	15	16	180		93	65	14	120	56	130	½
25	20	16	380		103	75	14	140	65	150	¾
32	25	16	460	800 052 131	115	85	14	150	71	160	1
40	32	16	850		137	100	18	170	85	180	1 ¼
50	40	16	1080	800 052 132	147	110	18	190	89	200	1 ½
63	50	16	1670		162	125	18	220	101	230	2

Process control valves

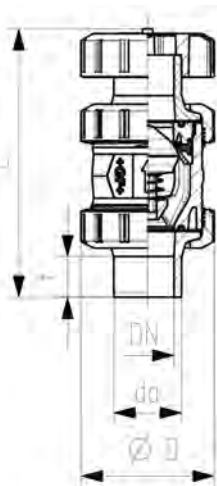


SYGEF Standard Ventilating valve type 595 With socket fusion spigots metric

Model:

- Material: PVDF
- 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)	FPM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	175 595 031	50	135	13	3/8
20	15	16	175 595 032	50	140	14	1/2
25	20	16	175 595 033	58	157	16	3/4
32	25	16	175 595 034	68	168	18	1
40	32	16	175 595 035	84	189	20	1 1/4
50	40	16	175 595 036	97	211	23	1 1/2
63	50	16	175 595 037	124	245	27	2

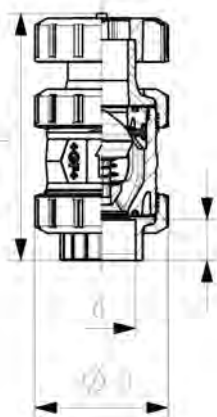


SYGEF Standard Ventilating valve type 595 With fusion sockets metric

Model:

- Material: PVDF
- 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)	FPM Code	D (mm)	L (mm)	t (mm)	closest inch (inch)
16	10	16	175 595 011	50	126	14	3/8
20	15	16	175 595 012	50	127	15	1/2
25	20	16	175 595 013	58	142	16	3/4
32	25	16	175 595 014	68	153	18	1
40	32	16	175 595 015	84	171	19	1 1/4
50	40	16	175 595 016	97	190	21	1 1/2
63	50	16	175 595 017	124	219	26	2
75	65	16	175 595 018	166	256	33	2 1/2
90	80	16	175 595 019	200	275	37	3
110	100	16	175 595 020	238	318	43	4



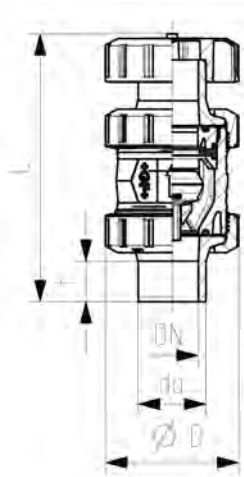


SYGEF Standard
Ventilating and bleed valve type 591
With socket fusion spigots metric

Model:

- Material: PVDF
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Special floater made of PVDF
- Designed for easy installation and removal
- Compact installation length

d	DN	PN	FPM	D	L	t	closest
(mm)	(mm)	(bar)	Code	(mm)	(mm)	(mm)	inch
							(inch)
16	10	16	175 591 031	50	135	13	3/8
20	15	16	175 591 032	50	140	14	1/2
25	20	16	175 591 033	58	157	16	3/4
32	25	16	175 591 034	68	168	18	1
40	32	16	175 591 035	84	189	20	1 1/4
50	40	16	175 591 036	97	211	23	1 1/2
63	50	16	175 591 037	124	245	27	2

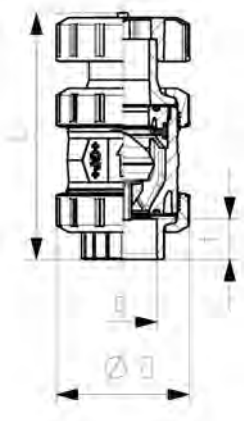


SYGEF Standard
Ventilating and bleed valve type 591
With fusion sockets metric

Model:

- Material: PVDF
- With protection cap up to DN50 made of PP-GF, DN65-100 made of POM
- Special floater made of PVDF
- Designed for easy installation and removal
- Compact installation length

d	DN	PN	FPM	D	L	t	closest
(mm)	(mm)	(bar)	Code	(mm)	(mm)	(mm)	inch
							(inch)
16	10	16	175 591 011	50	126	14	3/8
20	15	16	175 591 012	50	127	15	1/2
25	20	16	175 591 013	58	142	16	3/4
32	25	16	175 591 014	68	153	18	1
40	32	16	175 591 015	84	171	19	1 1/4
50	40	16	175 591 016	97	190	21	1 1/2
63	50	16	175 591 017	124	219	26	2
75	65	16	175 591 018	166	256	33	2 1/2
90	80	16	175 591 019	200	275	37	3
110	100	16	175 591 020	238	318	43	4



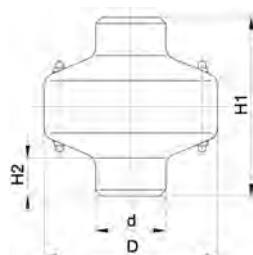


SYGEF Standard Gauge guard type Z701 Without manometer

Model:

- Material: PVDF

d (mm)	PTFE Code	Weight (kg)	D (mm)	H1 (mm)	H2 (mm)	G (inch)
25	199 041 010	0.173	72	71	15	1/4
32	199 041 011	0.334	100	90	22	1/2

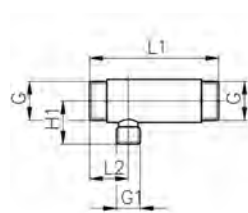


SYGEF Standard Water jet suction pump type P20

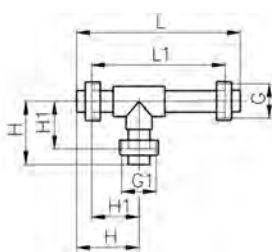
Model:

- Material: PVDF
- DN 10-20: BSP parallel female thread
- DN 25-50: Fusion socket metric
- DN 65-80: Fusion spigot metric

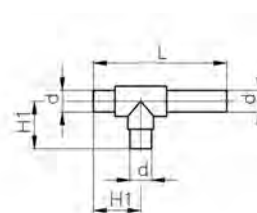
d (mm)	DN (mm)	PN (bar)	FPM Code	Weight (kg)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L2 (mm)	G (inch)	G1 (inch)	closest inch (inch)
16	10	10	199 041 138	0.184		35	110	40		R 3/4	R 3/4	3/8
20	15	10	199 041 139	0.278		35	110	40		R 1	R 3/4	1/2
25	20	10	199 041 140	0.476		45	145	45		R 1 1/4	R 3/4	3/4
32	25	10	199 041 141	0.690	96	71	245	195		R 1 1/2	R 1 1/2	1
40	32	10	199 041 142	1.100	116	87	297	239		R 2	R 2	1 1/4
50	40	10	199 041 143	1.649	139	105	369	301		R 2 1/4	R 2 1/4	1 1/2
63	50	10	199 041 144	3.340	169	128	433	351		R 2 3/4	R 2 3/4	2
75	65	10	199 041 145	3.340		115	388					2 1/2
90	80	10	199 041 146	5.500		149	465					3



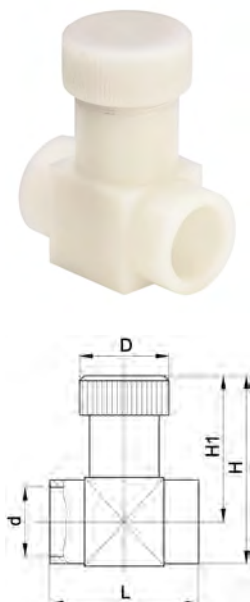
DN 10 - 20



DN 25 - 50



DN 65 - 80



SYGEF Standard
Throttle valve type V251
With fusion sockets metric

Model:

- Material: PVDF

d (mm)	DN (mm)	PN (bar)	FPM Code	Weight (kg)	D (mm)	H (mm)	H1 (mm)	L (mm)	closest inch (inch)
16	10	10	199 041 231	0.100	29	57	45	47	$\frac{3}{8}$
20	15	10	199 041 232	0.106	35	66	51	55	$\frac{1}{2}$
25	20	10	199 041 233	0.143	40	80	63	66	$\frac{3}{4}$
32	25	10	199 041 234	0.273	47	96	75	80	1
40	32	10	199 041 235	0.400	56	111	86	100	1 $\frac{1}{4}$
50	40	10	199 041 236	0.923	70	133	101	120	1 $\frac{1}{2}$
63	50	10	199 041 237	1.300	88	158	118	146	2

Special version PVDF



Special version PVDF
Float in PVDF (red) without magnet

Dimension L and L1 only valid for socket connection
 Dimension L2 describes taper tube length

Type	d (mm)	DN (mm)	Scale range (l/h)	Taper tube in PVDF O-rings in FPM fusion socket Code	Weight (kg)	Taper tube in PVDF O-rings in FPM IR fusion spigot Code	Weight (kg)
SK 10	32	25	50 - 500	198 806 466	0.571	198 803 905	0.520
SK 11	32	25	100 - 1000	198 806 467	0.520	198 803 906	0.520
SK 20	50	40	200 - 2000	198 806 468	1.259	198 803 907	1.220
SK 21	50	40	300 - 3000	198 806 469	1.247	198 803 908	1.220
SK 30	63	50	600 - 6000	198 806 470	1.698	198 803 909	1.785
SK 31	63	50	1200 - 12000	198 806 471	1.587	198 803 910	1.680
SK 40	75	65	2000 - 20000		2.900	198 803 911	2.900
SK 41	75	65	3000 - 30000		2.900	198 803 912	2.900

Type	D (mm)	L (mm)	L (IR-SS) (mm)	L1 (mm)	L2 (mm)	G (inch)
SK 10	60	385	443	341	335	1 $\frac{1}{2}$
SK 11	60	385	443	341	335	1 $\frac{1}{2}$
SK 20	83	403	459	341	335	2 $\frac{1}{4}$
SK 21	83	403	459	341	335	2 $\frac{1}{4}$
SK 30	103	417	461	339	335	2 $\frac{3}{4}$
SK 31	103	417	461	339	335	2 $\frac{3}{4}$
SK 40	122	429	453	341	335	3 $\frac{1}{2}$
SK 41	122	429	453	341	335	3 $\frac{1}{2}$

SYGEF Standard

Valves Silicone Free

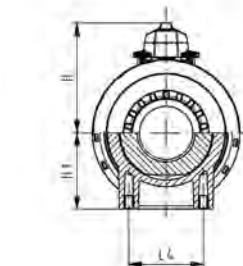
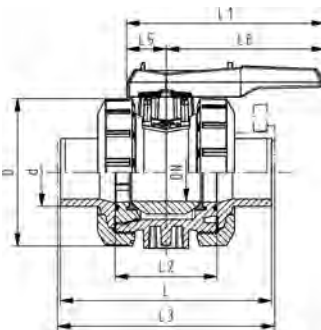
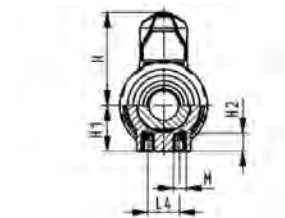
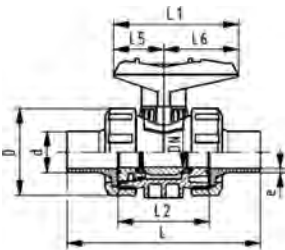


Hand-operated valves cleaned

Ball valves silicone free/paint compatible



DN10/15 - 50



SYGEF Standard oil free
Ball valve type 546
With mounting inserts
With butt fusion spigots IR-Plus metric

Model:

- Material: PVDF/oil free cleaned
- Union ends for easy installation and removal
- Integrated stainless steel 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+

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
20	15	16	185	175 546 492	0.202
25	20	16	350	175 546 493	0.301
32	25	16	700	175 546 494	0.438
40	32	16	1000	175 546 495	0.780
50	40	16	1600	175 546 496	1.057
63	50	16	3100	175 546 497	2.150
75	65	16	5000	175 546 498	6.600
90	80	16	7000	175 546 499	9.700
110	100	16	11000	175 546 500	15.300

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	57	27	12	130	77	56	25	32	45	M6	1.9	1/2
25	58	67	30	12	143	97	65	25	39	58	M6	1.9	3/4
32	68	73	36	12	150	97	71	25	39	58	M6	2.4	1
40	84	90	44	15	171	128	85	45	54	74	M8	2.4	1 1/4
50	97	97	51	15	191	128	89	45	54	74	M8	3.0	1 1/2
63	124	116	64	15	220	152	101	45	66	87	M8	3.0	2
75	166	149	85	15	266	270	136	70	64	206	M8	3.6	2 1/2
90	200	161	105	15	264	270	141	70	64	206	M8	4.3	3
110	238	178	123	22	301	320	164	120	64	256	M12	5.3	4



DN10/15 - 50



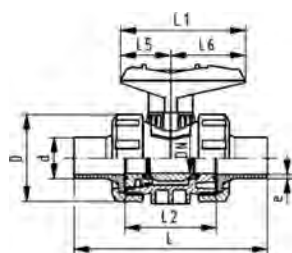
SYGEF Standard silicone free
Ball valve type 546
With mounting inserts
With butt fusion spigots IR-Plus metric

Model:

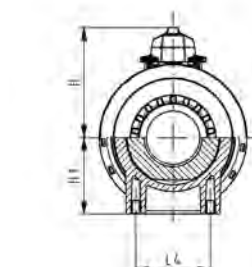
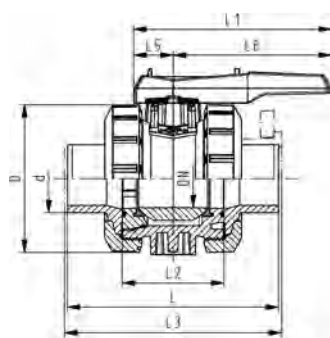
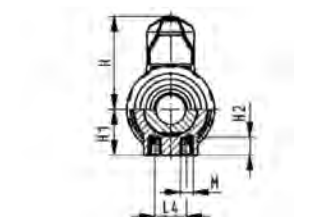
- Material: PVDF / silicone free cleaned
- For easy installation and removal
- Ball seals PVDF
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

Option:

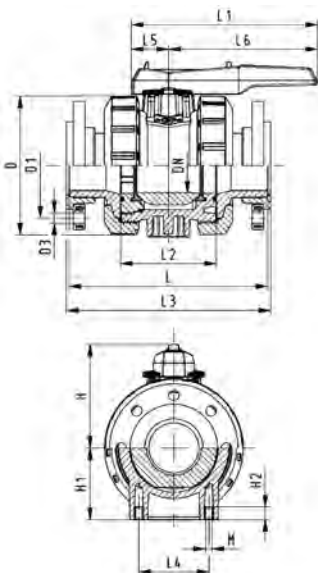
- Individual configuration of the valve (see diagram)
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from +GF+



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
20	15	16	185	175 546 752	0.201
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
75	65	16	5000	175 546 758	6.600
90	80	16	7000	175 546 759	9.700
110	100	16	11000	175 546 760	15.300



d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	e (mm)	closest inch (inch)
20	50	57	27	12	130	77	56	25	32	45	M6	1.9	1/2
25	58	67	30	12	143	97	65	25	39	58	M6	1.9	3/4
32	68	73	36	12	150	97	71	25	39	58	M6	2.4	1
40	84	90	44	15	171	128	85	45	54	74	M8	2.4	1 1/4
50	97	97	51	15	191	128	89	45	54	74	M8	3.0	1 1/2
63	124	116	64	15	220	152	101	45	66	87	M8	3.0	2
75	166	149	85	15	266	270	136	70	64	206	M8	3.6	2 1/2
90	200	161	105	15	264	270	141	70	64	206	M8	4.3	3
110	238	178	123	22	301	320	164	120	64	256	M12	5.3	4



SYGEF Standard silicone free
Ball valve type 546
With mounting inserts
With backing flanges PP-st metric

Model:

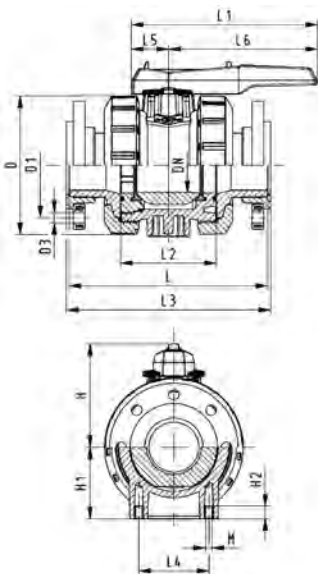
- Material: PVDF / silicone free cleaned
- For easy installation and removal
- Ball seals PVDF
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501

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	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
75	65	16	5000	175 546 828	11.700
90	80	16	7000	175 546 829	16.000
110	100	16	11000	175 546 830	23.900

d	DN	D	D1	D3	H	H1	L	L1	L2	L3	L4	L5	L6	M	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		inch
															(inch)
75	65	166	145	18	149	85	280	270	136	290	70	64	206	8	2 ½
90	80	200	160	18	161	105	296	270	141	310	70	64	206	8	3
110	100	238	180	18	178	123	336	320	164	350	120	64	256	12	4



SYGEF Standard silicone free
Ball valve type 546
With mounting inserts
With backing flanges PP-st Inch ANSI

Model:

- Material: PVDF / silicone free cleaned
- For easy installation and removal
- Ball seals PVDF
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- Overall length according to EN 558
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024

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	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
75	65	16	5000	175 546 838	11.700
90	80	16	7000	175 546 839	16.000
110	100	16	11000	175 546 840	23.900

d	D	D1	D3	H	H1	L	L1	L2	L3	L4	L5	L6	M	closest
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		inch
														(inch)
75	166	140	19	149	85	280	270	136	290	70	64	206	8	2 ½
90	200	152	19	161	105	296	270	141	310	70	64	206	8	3
110	238	191	19	178	123	336	320	164	350	120	64	256	12	4



DN10/15 - 50



SYGEF Standard silicone free

Ball valve type 546

With mounting inserts

With fusion sockets metric

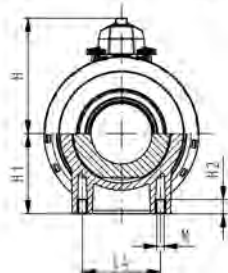
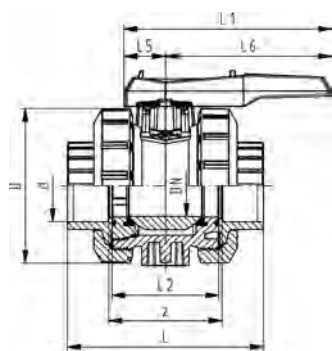
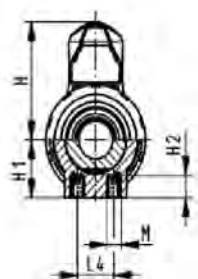
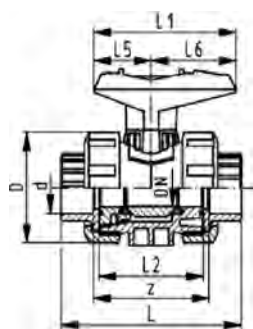
Model:

- Material: PVDF / silicone free cleaned
- For easy installation and removal
- Ball seals PVDF
- Integrated stainless steel 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+

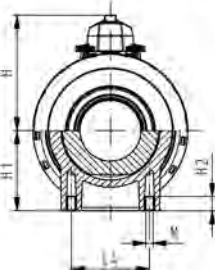
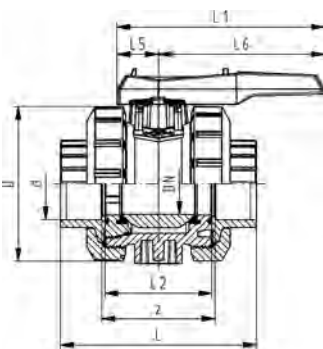
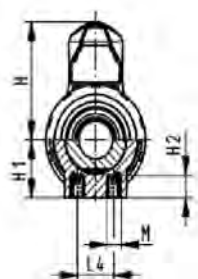
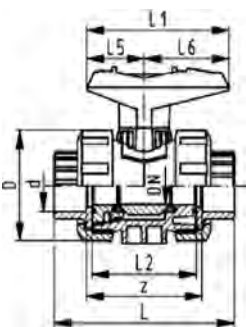
d	DN	PN	kv-value	FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
16	10	16	71	175 546 691	0.195
20	15	16	185	175 546 692	0.200
25	20	16	350	175 546 693	0.300
32	25	16	700	175 546 694	0.440
40	32	16	1000	175 546 695	0.760
50	40	16	1600	175 546 696	1.060
63	50	16	3100	175 546 697	2.055
75	65	16	5000	175 546 698	6.300
90	80	16	7000	175 546 699	9.500
110	100	16	11000	175 546 700	15.000



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	93	77	56	25	32	45	M6	67	3/8
20	50	57	27	12	95	77	56	25	32	45	M6	66	1/2
25	58	67	30	12	109	97	65	25	39	58	M6	77	3/4
32	68	73	36	12	119	97	71	25	39	58	M6	83	1
40	84	90	44	15	135	128	85	45	54	74	M8	99	1 1/4
50	97	97	51	15	147	128	89	45	54	74	M8	105	1 1/2
63	124	116	64	15	168	152	101	45	66	87	M8	117	2
75	166	149	85	15	233	270	136	70	64	206	M8	167	2 1/2
90	200	161	105	15	254	270	141	70	64	206	M8	180	3
110	238	178	123	22	301	320	164	120	64	256	M12	215	4



DN10/15 - 50



**SYGEF Standard oil free
Ball valve type 546
With mounting inserts
With fusion sockets metric**

Model:

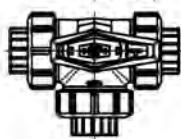
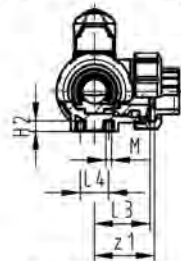
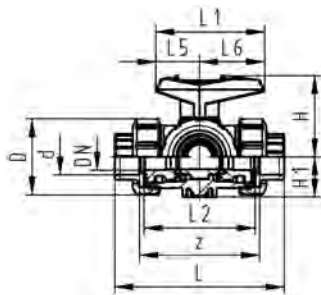
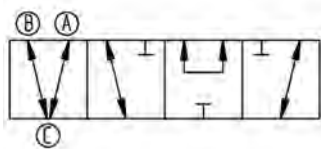
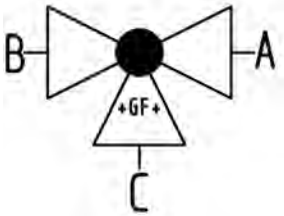
- Material: PVDF/oil free cleaned
- For easy installation and removal
- Ball seals PTFE
- Integrated stainless steel mounting inserts
- z-dimension, valve end and union nut are not compatible with type 346

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)	FPM Code	Weight (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	0.298
32	25	16	700	175 546 474	0.429
40	32	16	1000	175 546 475	0.754
50	40	16	1600	175 546 476	1.009
63	50	16	3100	175 546 477	2.055
75	65	16	5000	175 546 478	6.300
90	80	16	7000	175 546 479	9.500
110	100	16	11000	175 546 480	15.000

d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M	z (mm)	closest inch (inch)
16	50	57	27	12	93	77	56	25	32	45	M6	67	$\frac{3}{8}$
20	50	57	27	12	95	77	56	25	32	45	M6	66	$\frac{1}{2}$
25	58	67	30	12	109	97	65	25	39	58	M6	77	$\frac{3}{4}$
32	68	73	36	12	119	97	71	25	39	58	M6	83	1
40	84	90	44	15	135	128	85	45	54	74	M8	99	1 $\frac{1}{4}$
50	97	97	51	15	147	128	89	45	54	74	M8	105	1 $\frac{1}{2}$
63	124	116	64	15	168	152	101	45	66	87	M8	117	2
75	166	149	85	15	233	270	136	70	64	206	M8	167	2 $\frac{1}{2}$
90	200	161	105	15	254	270	141	70	64	206	M8	180	3
110	238	178	123	22	301	320	164	120	64	256	M12	215	4



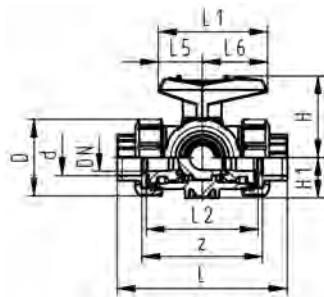
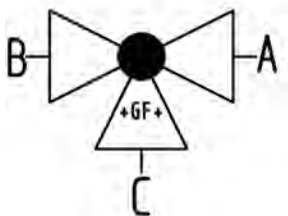
**SYGEF Standard oil free
3-Way ball valve type 543
Horizontal/T-port
With fusion sockets metric**

Model:

- Material: PVDF/oil free cleaned
- 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)	FPM Code	Weight (kg)
16	10	10	140	175 543 631	0.311
20	15	10	200	175 543 632	0.319
25	20	10	470	175 543 633	0.458
32	25	10	793	175 543 634	0.695
40	32	10	1290	175 543 635	1.185
50	40	10	1910	175 543 636	1.751
63	50	10	3100	175 543 637	3.405

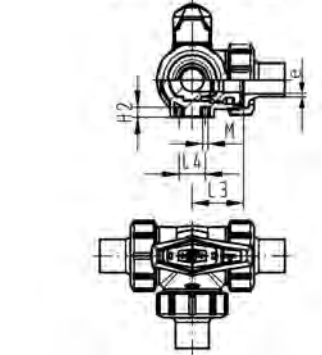
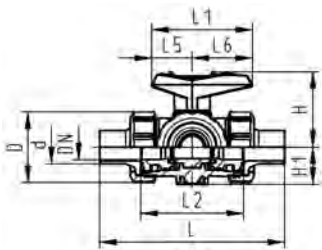
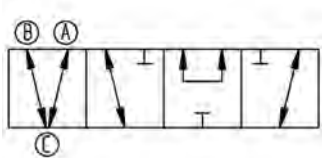
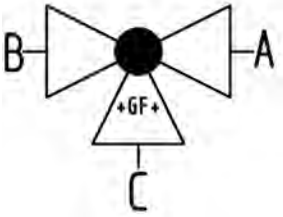
d (mm)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	M (mm)	z (mm)	z1 (mm)	closest inch (inch)
16	50	57	28	8	110	77	72	36	25	32	45	6	82	41	3/8
20	50	57	28	8	112	77	72	36	25	32	45	6	82	41	1/2
25	58	67	32	8	129	97	85	43	25	39	58	6	97	49	3/4
32	68	73	36	8	146	97	98	49	25	39	58	6	110	55	1
40	84	90	45	9	170	128	118	59	45	54	74	8	132	66	1 1/4
50	97	97	51	9	193	128	135	68	45	54	74	8	151	76	1 1/2
63	124	116	65	9	244	152	176	88	45	66	87	8	188	94	2



- Material: PVDF/oil free cleaned
- 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 (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
16	10	10	50	175 543 611	0.312
20	15	10	75	175 543 612	0.320
25	20	10	150	175 543 613	0.423
32	25	10	280	175 543 614	0.653
40	32	10	480	175 543 615	1.121
50	40	10	620	175 543 616	1.778
63	50	10	1230	175 543 617	3.462

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)	(inch)
16	50	57	28	8	110	77	72	36	25	32	45	6	82	41	$\frac{3}{8}$
20	50	57	28	8	112	77	72	36	25	32	45	6	82	41	$\frac{1}{2}$
25	58	67	32	8	129	97	85	43	25	39	58	6	97	49	$\frac{3}{4}$
32	68	73	36	8	146	97	98	49	25	39	58	6	110	55	1
40	84	90	45	9	170	128	118	59	45	54	74	8	132	66	1 $\frac{1}{4}$
50	97	97	51	9	193	128	135	68	45	54	74	8	151	76	1 $\frac{1}{2}$
63	124	116	65	9	244	152	176	88	45	66	87	8	188	94	2



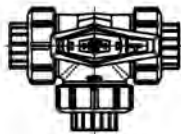
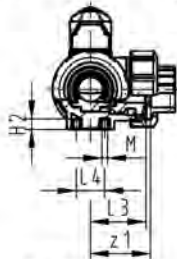
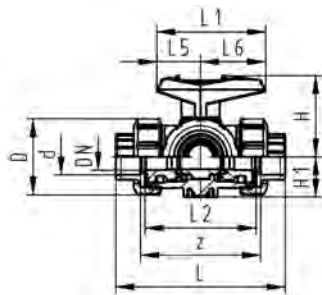
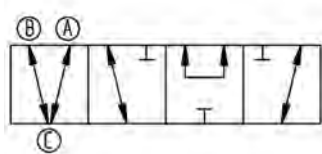
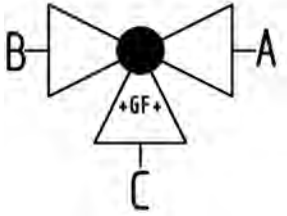
**SYGEF Standard silicone free
3-Way ball valve type 543
Horizontal/T-port
With butt fusion spigots IR-Plus metric**

Model:

- Material: PVDF / silicone free cleaned
- 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 (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
20	15	10	200	175 543 352	0.330
25	20	10	470	175 543 353	0.478
32	25	10	793	175 543 354	0.726
40	32	10	1290	175 543 355	1.212
50	40	10	1910	175 543 356	1.832
63	50	10	3100	175 543 357	3.566

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 (mm)	e (mm)	closest inch (inch)
20	50	57	28	8	146	77	72	36	25	32	45	6	2	1/2
25	58	67	32	8	163	97	85	43	25	39	58	6	2	3/4
32	68	73	36	8	178	97	98	49	25	39	58	6	2	1
40	84	90	45	9	204	128	118	59	45	54	74	8	2	1 1/4
50	97	97	51	9	237	128	135	68	45	54	74	8	3	1 1/2
63	124	116	65	9	296	152	176	88	45	66	87	8	3	2



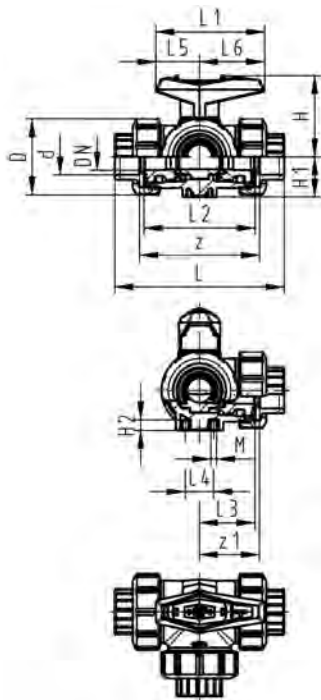
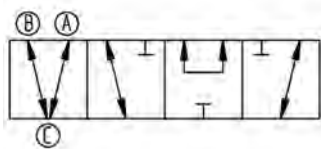
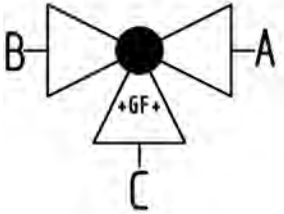
**SYGEF Standard silicone free
3-Way ball valve type 543
Horizontal/T-port
With fusion sockets metric (US version)**

Model:

- Material: PVDF / silicone free cleaned
- 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)	FPM Code	Weight (kg)
16	10	10	140	175 543 511	0.311
20	15	10	200	175 543 512	0.319
25	20	10	470	175 543 513	0.458
32	25	10	793	175 543 514	0.695
40	32	10	1290	175 543 515	1.185
50	40	10	1910	175 543 516	1.751
63	50	10	3100	175 543 517	3.405

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 (mm)	z (mm)	z1 (mm)	closest inch (inch)
16	50	57	28	8	110	77	72	36	25	32	45	6	82	41	$\frac{3}{8}$
20	50	57	28	8	112	77	72	36	25	32	45	6	82	41	$\frac{1}{2}$
25	58	67	32	8	129	97	85	43	25	39	58	6	97	49	$\frac{3}{4}$
32	68	73	36	8	146	97	98	49	25	39	58	6	110	55	1
40	84	90	45	9	170	128	118	59	45	54	74	8	132	66	1 $\frac{1}{4}$
50	97	97	51	9	193	128	135	68	45	54	74	8	151	76	1 $\frac{1}{2}$
63	124	116	65	9	244	152	176	88	45	66	87	8	188	94	2



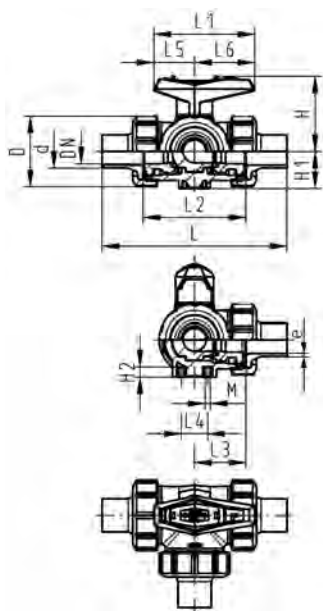
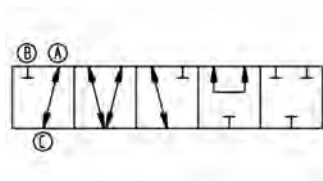
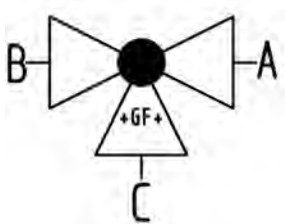
**SYGEF Standard silicone free
3-Way ball valve type 543
Horizontal/T-port
With fusion sockets metric**

Model:

- Material: PVDF / silicone free cleaned
- 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 (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
16	10	10	140	175 543 311	0.311
20	15	10	200	175 543 312	0.319
25	20	10	470	175 543 313	0.458
32	25	10	793	175 543 314	0.695
40	32	10	1290	175 543 315	1.185
50	40	10	1910	175 543 316	1.751
63	50	10	3100	175 543 317	3.405

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 (mm)	z (mm)	z1 (mm)	closest inch (inch)
16	50	57	28	8	110	77	72	36	25	32	45	6	82	41	$\frac{3}{8}$
20	50	57	28	8	112	77	72	36	25	32	45	6	82	41	$\frac{1}{2}$
25	58	67	32	8	129	97	85	43	25	39	58	6	97	49	$\frac{3}{4}$
32	68	73	36	8	146	97	98	49	25	39	58	6	110	55	1
40	84	90	45	9	170	128	118	59	45	54	74	8	132	66	1 $\frac{1}{4}$
50	97	97	51	9	193	128	135	68	45	54	74	8	151	76	1 $\frac{1}{2}$
63	124	116	65	9	244	152	176	88	45	66	87	8	188	94	2



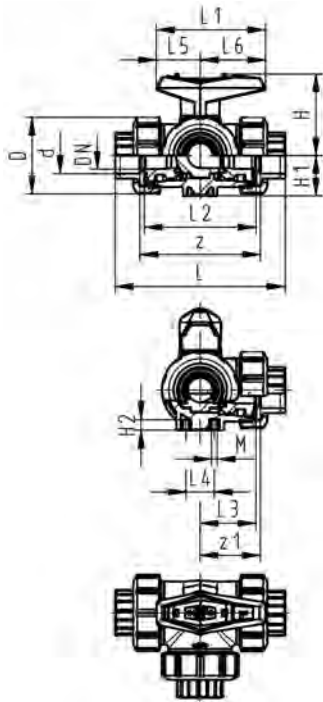
**SYGEF Standard silicone free
3-Way ball valve type 543
Horizontal/L-port
With butt fusion spigots IR-Plus metric**

Model:

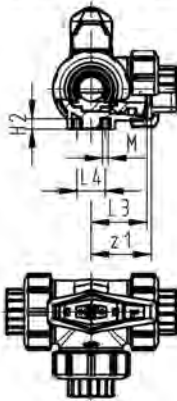
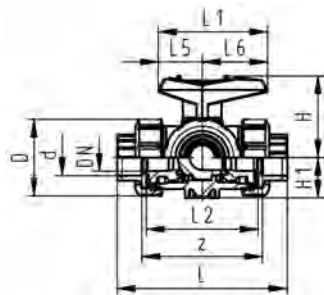
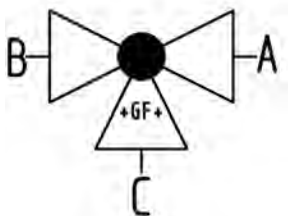
- Material: PVDF / silicone free cleaned
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PVDF
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions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

d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
20	15	10	75	175 543 252	0.332
25	20	10	150	175 543 253	0.480
32	25	10	280	175 543 254	0.735
40	32	10	480	175 543 255	1.226
50	40	10	620	175 543 256	1.859
63	50	10	1230	175 543 257	3.624

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 (mm)	e (mm)	closest inch (inch)
20	50	57	28	8	146	77	72	36	25	32	45	6	2	1/2
25	58	67	32	8	163	97	85	43	25	39	58	6	2	3/4
32	68	73	36	8	178	97	98	49	25	39	58	6	2	1
40	84	90	45	9	204	128	118	59	45	54	74	8	2	1 1/4
50	97	97	51	9	237	128	135	68	45	54	74	8	3	1 1/2
63	124	116	65	9	296	152	176	88	45	66	87	8	3	2



Model:



**SYGEF Standard silicone free
3-Way ball valve type 543
Horizontal/L-port
With fusion sockets metric (US version)**

Model:

- Material: PVDF / silicone free cleaned
- 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 (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)
16	10	10	50	175 543 411	0.312
20	15	10	75	175 543 412	0.320
25	20	10	150	175 543 413	0.461
32	25	10	280	175 543 414	0.704
40	32	10	480	175 543 415	1.199
50	40	10	620	175 543 416	1.778
63	50	10	1230	175 543 417	3.462

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 (mm)	z (mm)	z1 (mm)	closest inch (inch)
16	50	57	28	8	110	77	72	36	25	32	45	6	82	41	$\frac{3}{8}$
20	50	57	28	8	112	77	72	36	25	32	45	6	82	41	$\frac{1}{2}$
25	58	67	32	8	129	97	85	43	25	39	58	6	97	49	$\frac{3}{4}$
32	68	73	36	8	146	97	98	49	25	39	58	6	110	55	1
40	84	90	45	9	170	128	118	59	45	54	74	8	132	66	1 $\frac{1}{4}$
50	97	97	51	9	193	128	135	68	45	54	74	8	151	76	1 $\frac{1}{2}$
63	124	116	65	9	244	152	176	88	45	66	87	8	188	94	2

Cone check valves silicone free

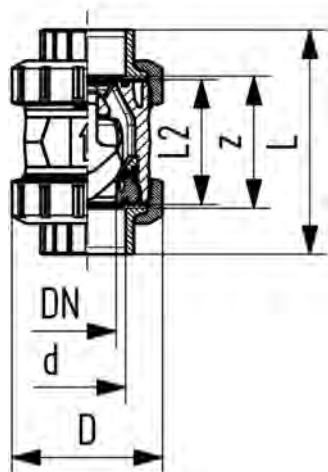


SYGEF Standard silicone free Check valve type 562 With fusion sockets metric

Model:

- Material: PVDF / silicone free cleaned
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d	DN	PN	kv-value	FPM	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	175 562 211	0.160	50	93	56	67	$\frac{3}{8}$
20	15	16	180	175 562 212	0.160	50	95	56	66	$\frac{1}{2}$
25	20	16	380	175 562 213	0.340	58	109	65	77	$\frac{3}{4}$
32	25	16	460	175 562 214	0.360	68	119	71	83	1
40	32	16	850	175 562 215	0.670	84	135	85	99	1 $\frac{1}{4}$
50	40	16	1080	175 562 216	0.990	97	147	89	105	1 $\frac{1}{2}$
63	50	16	1670	175 562 217	1.770	124	168	101	117	2
75	65	16	2950	175 562 218	3.630	166	235	136	167	2 $\frac{1}{2}$
90	80	16	3600	175 562 219	5.800	200	255	141	180	3
110	100	16	4150	175 562 220	9.450	238	305	164	215	4

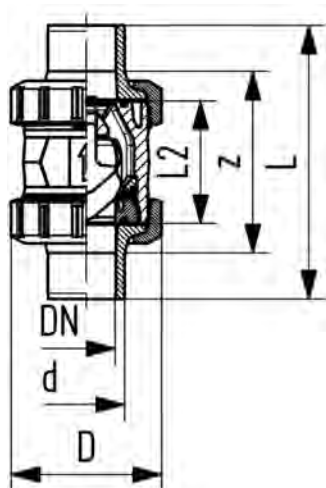


**SYGEF Standard silicone free
Check valve type 562
With socket fusion spigots metric**

Model:

- Material: PVDF / silicone free cleaned
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d	DN	PN	kv-value	FPM	Weight	D	L	L2	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	inch
			(l/min)						(inch)
20	15	16	180	175 562 232	0.170	50	120	56	½
25	20	16	380	175 562 233	0.370	58	139	65	¾
32	25	16	460	175 562 234	0.400	68	150	71	1
40	32	16	850	175 562 235	0.670	84	170	85	1 ¼
50	40	16	1080	175 562 236	1.030	97	190	89	1 ½
63	50	16	1670	175 562 237	1.830	124	220	101	2

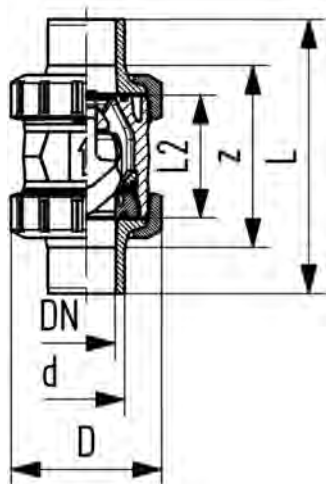


**SYGEF Standard silicone free
Check valve type 562
With fusion spigots IR-Plus metric**

Model:

- Material: PVDF / silicone free cleaned
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d	DN	PN	kv-value	FPM	Weight	D	L	L2	e	closest
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)	(mm)	(mm)	(mm)	(mm)	inch
			(l/min)							(inch)
20	15	16	180	175 562 272	0.160	50	130	56	1.9	½
25	20	16	380	175 562 273	0.350	58	143	65	1.9	¾
32	25	16	460	175 562 274	0.380	68	150	71	2.4	1
40	32	16	850	175 562 275	0.660	84	171	85	2.4	1 ¼
50	40	16	1080	175 562 276	1.000	97	191	89	3.0	1 ½
63	50	16	1670	175 562 277	1.790	124	220	101	3.0	2
75	65	16	2950	175 562 278	3.680	166	290	136	3.6	2 ½
90	80	16	3600	175 562 279	5.760	200	310	141	4.3	3
110	100	16	4150	175 562 280	9.270	238	350	164	5.3	4

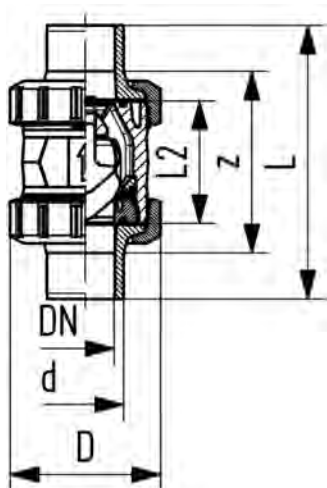


SYGEF Standard silicone free
Check valve type 561
With butt fusion spigots IR-Plus metric

Model:

- Material: PVDF / silicone free cleaned
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	e (mm)	closest inch (inch)
20	15	16	180	175 561 272	0.160	50	130	56	1.9	½
25	20	16	380	175 561 273	0.350	58	143	65	1.9	¾
32	25	16	460	175 561 274	0.367	68	150	71	2.4	1
40	32	16	850	175 561 275	0.660	84	171	85	2.4	1 ¼
50	40	16	1080	175 561 276	1.000	97	191	89	3.0	1 ½
63	50	16	1670	175 561 277	1.790	124	220	101	3.0	2
75	65	16	2950	175 561 278	3.680	166	290	136	3.6	2 ½
90	80	16	3600	175 561 279	5.760	200	310	141	4.3	3
110	100	16	4150	175 561 280	9.270	238	350	164	5.3	4

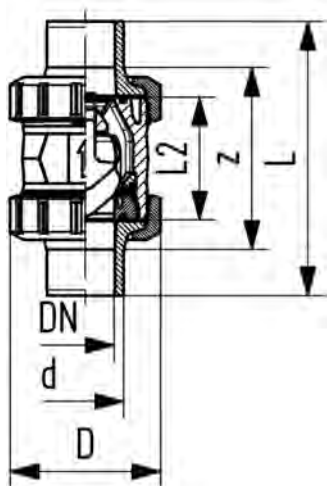


SYGEF Standard silicone free
Check valve type 561
With socket fusion spigots metric

Model:

- Material: PVDF / silicone free cleaned
- 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

Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	FPM Code	Weight (kg)	D (mm)	L (mm)	L2 (mm)	closest inch (inch)
20	15	16	180	175 561 232	0.170	50	120	56	½
25	20	16	380	175 561 233	0.370	58	139	65	¾
32	25	16	460	175 561 234	0.400	68	150	71	1
40	32	16	850	175 561 235	0.670	84	170	85	1 ¼
50	40	16	1080	175 561 236	1.030	97	190	89	1 ½
63	50	16	1670	175 561 237	1.830	124	220	101	2

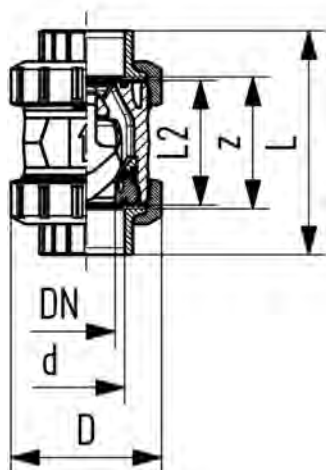


**SYGEF Standard silicone free
Check valve type 561
With fusion sockets metric**

Model:

- Material: PVDF / silicone free cleaned
- 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

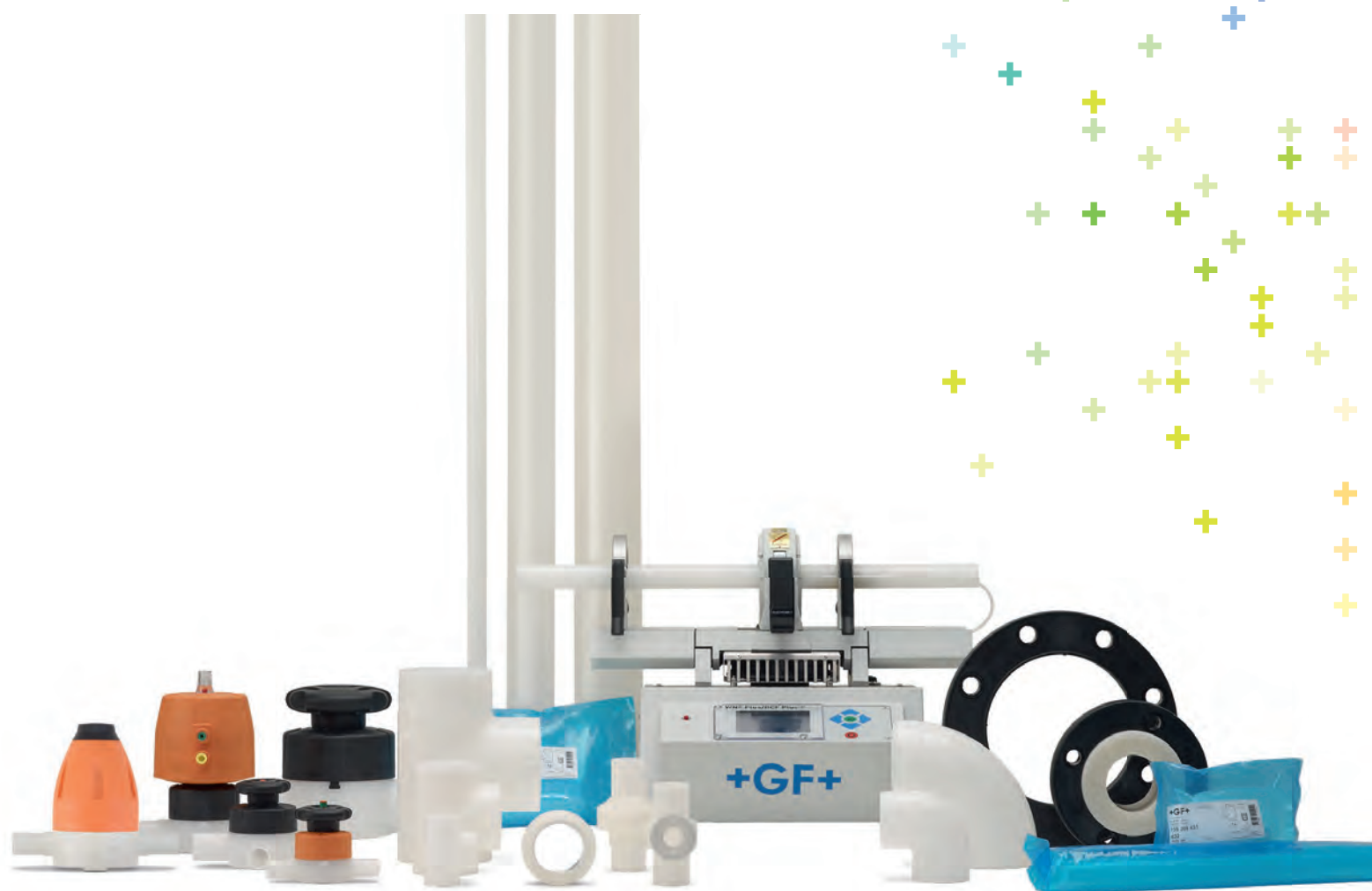
Warning: please make sure the diameter is not reduced through welding beads (Danger of turbulences)



d	DN	PN	kv-value	FPM	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	175 561 211	0.160	50	93	56	67	¾
20	15	16	180	175 561 212	0.160	50	95	56	66	½
25	20	16	380	175 561 213	0.340	58	109	65	77	¾
32	25	16	460	175 561 214	0.360	68	119	71	83	1
40	32	16	850	175 561 215	0.670	84	135	85	99	1 ¼
50	40	16	1080	175 561 216	0.990	97	147	89	105	1 ½
63	50	16	1670	175 561 217	1.770	124	168	101	117	2
75	65	16	2950	175 561 218	3.630	166	235	136	167	2 ½
90	80	16	3600	175 561 219	5.800	200	255	141	180	3
110	100	16	4150	175 561 220	9.450	238	305	164	215	4

SYGEF Plus

Piping systems in PVDF-HP



SYGEF Plus

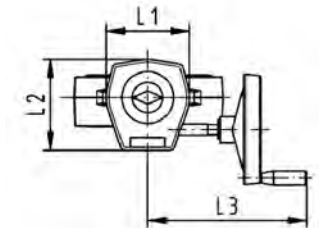
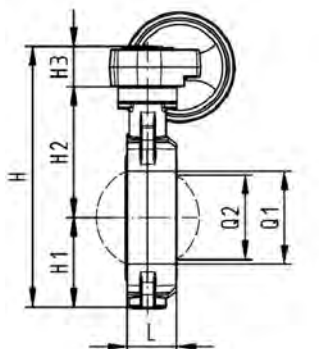
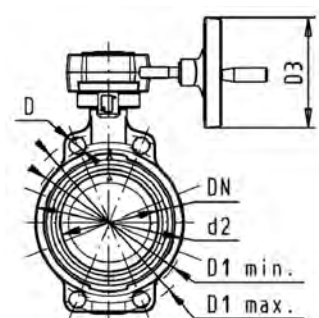
Valves



Valves SYGEF Plus

SYGEF Plus metric/ASTM/ANSI

Hand-operated valves



SYGEF Plus Butterfly valve type 567 Reduction gear with handwheel

Model:

- Material: PVDF-HP
- 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	PTFE	Weight
(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
				(l/min)		
63	2	50	10	1470	175 567 622	3.118
75	2 1/2	65	10	2200	175 567 623	3.230
90	3	80	10	3000	175 567 624	3.410
110	4	100	10	6500	175 567 625	4.062
140	5	125	10	11500	175 567 626	4.657
160	6	150	10	16600	175 567 627	5.877
225	8	200	10	39600	175 567 628	7.998
280	10	250	10	55200	175 567 629	12.884
315	12	300	10	80000	175 567 630	20.763

d	d2	D	D1	D1	D3	H	H1	H2	H3	L	L1	L2	L3	Q1
(mm)	(mm)	(mm)	min.	max.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
			(mm)	(mm)										
63	104	19	120	125	150	278	77	134	50	45	110	120	155	40
75	115	19	140	145	150	291	83	140	50	46	110	120	155	54
90	131	19	150	160	150	303	89	146	50	49	110	120	155	67
110	160	19	175	191	150	339	104	167	50	56	110	120	155	88
140	187	23	210	216	150	365	117	181	50	64	110	120	155	113
160	215	24	241	241	150	387	130	189	50	72	110	120	155	139
225	267	23	290	295	150	436	158	210	50	73	110	120	155	178
280	329	25	353	362	200	529	205	264	55	113	130	140	200	210
315	379	25	400	432	200	573	228	285	55	113	130	140	200	256

d	Q2
(mm)	(mm)
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

SYGEF Plus
Diaphragm valve type 514
With butt fusion spigots metric

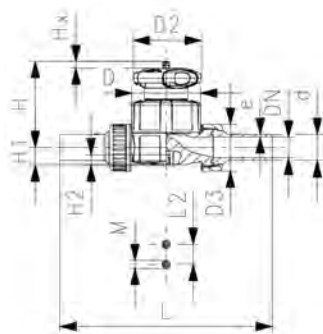


Model:

- Material: PVDF-HP
- Ideally suited for High Purity applications, recommended for oxidizing acids.
- 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



d	DN	PN	kv-value	PTFE/EPDM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
			(l/min)		
20	15	16	125	180 514 132	0.399
25	20	16	271	180 514 133	0.597
32	25	16	481	180 514 134	1.111
40	32	16	759	180 514 135	1.286
50	40	16	1263	180 514 136	2.989
63	50	16	1728	180 514 137	3.164

d	D	D2	D3	H	H1	H2	L	L2	M	e	Lift = Hx	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(inch)
20	65	65	43	73	14	12	196	25	M6	1.9	7	½
25	80	65	53	81	18	12	221	25	M6	1.9	10	¾
32	88	87	60	107	22	12	234	25	M6	2.4	13	1
40	101	87	74	115	26	15	260	45	M8	2.4	15	1 ¼
50	117	135	82	148	32	15	284	45	M8	3.0	19	1 ½
63	144	135	100	166	39	15	321	45	M8	3.0	25	2



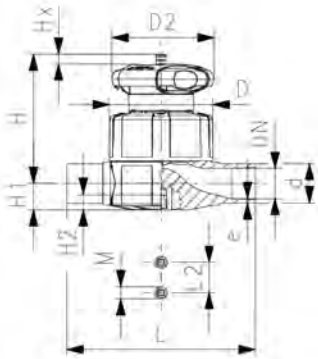
SYGEF Plus
Diaphragm valve type 515
With butt fusion spigots metric

Model:

- Material: PVDF-HP
- Ideally suited for High Purity applications, recommended for oxidizing acids.
- 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



d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	PTFE/EPDM Code	Weight (kg)
20	15	16	125	180 515 132	0.295
25	20	16	271	180 515 133	0.438
32	25	16	481	180 515 134	0.870
40	32	16	759	180 515 135	0.944
50	40	16	1263	180 515 136	1.846
63	50	16	1728	180 515 137	2.512

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	73	14	12	124	25	M4	1.9	7	1/2
25	80	65	81	18	12	144	25	M4	1.9	10	3/4
32	88	87	107	22	12	155	25	M4	2.4	13	1
40	101	87	115	26	15	176	45	M8	2.4	15	1 1/4
50	117	135	148	32	15	193	45	M8	3.0	19	1 1/2
63	144	135	166	39	15	223	45	M8	3.0	25	2



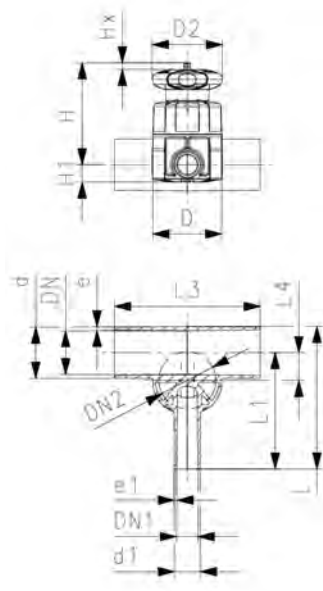
SYGEF Plus
Diaphragm valve type 519
With butt fusion spigots metric

Model:

- Material: PVDF-HP
- Ideally suited for High Purity applications
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Smallest possible dead space
- **For water use only**
- Not suitable for oxidizing acids

Option:

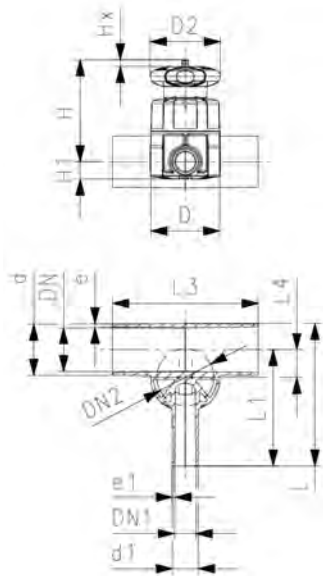
- Individual configuration of the valve (see diagram)
- Self adjusting multifunctional module with integrated limit switches



d (mm)	d1 (mm)	Valve Size d (mm)	DN (mm)	DN1 (mm)	DN2 (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	PTFE/EPDM Code	Weight (kg)
20	20	20	15	15	15	16	57	180 519 301	0.350
25	20	25	20	15	20	16	89	180 519 303	0.476
25	25	25	20	20	20	16	118	180 519 304	0.633
32	20	25	25	15	20	16	80	180 519 307	0.692
32	25	25	25	20	20	16	105	180 519 308	0.721
32	32	32	25	25	25	16	231	180 519 309	0.889
40	20	32	32	15	25	16	85	180 519 312	0.963
40	25	32	32	20	25	16	119	180 519 313	0.812
40	32	32	32	25	25	16	153	180 519 314	0.845
40	40	32	32	32	25	16	187	180 519 315	0.866
50	20	25	40	15	20	16	86	180 519 318	0.789
50	25	32	40	20	25	16	160	180 519 319	0.905
50	32	32	40	25	25	16	206	180 519 320	0.926
50	40	63	40	32	50	16	524	180 519 321	2.381
50	50	63	40	40	50	16	667	180 519 322	2.387
63	20	25	50	15	20	16	84	180 519 325	0.784
63	25	32	50	20	25	16	150	180 519 326	1.411
63	32	32	50	25	25	16	184	180 519 327	1.018
63	40	63	50	32	50	16	471	180 519 328	2.606
63	50	63	50	40	50	16	610	180 519 329	2.884
63	63	63	50	50	50	16	747	180 519 330	2.653
90	20	32	80	15	25	16	82	180 519 341	1.304
90	25	32	80	20	25	16	103	180 519 342	1.703
90	32	32	80	25	25	16	129	180 519 343	1.719
90	50	63	80	40	50	16	623	180 519 345	3.164
90	63	63	80	50	50	16	696	180 519 346	3.172
110	20	32	100	15	25	16	78	180 519 351	1.966
110	25	32	100	20	25	16	103	180 519 352	1.972
110	32	32	100	25	25	16	131	180 519 353	1.975
110	50	63	100	40	50	16	604	180 519 355	3.491
110	63	63	100	50	50	16	661	180 519 356	3.580

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	e1 (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	75	14.0	117	96	162	12	1.9	1.9	7	½
25	80	65	80	17.5	133	108	162	16	1.9	1.9	10	¾
25	80	65	80	17.5	133	108	162	16	1.9	1.9	10	¾
32	80	65	84	21.5	142	120	162	19	2.4	1.9	10	1
32	80	65	84	21.5	142	120	162	19	2.4	1.9	10	1
32	88	87	107	21.5	145	120	160	19	2.4	2.4	13	1
40	88	87	115	21.5	149	128	180	23	2.4	1.9	13	1 ¼
40	88	87	115	21.5	149	128	180	23	2.4	1.9	13	1 ¼
40	88	87	115	21.5	149	128	180	23	2.4	2.4	13	1 ¼
40	88	87	115	21.5	174	153	180	23	2.4	2.4	13	1 ¼
50	80	65	97	17.5	160	134	180	27	3.0	1.9	10	1 ½

table continued on the next page



d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	e1 (mm)	Lift = Hx (mm)	closest inch (inch)
50	88	87	120	21.5	160	134	180	28	3.0	1.9	13	1 ½
50	88	87	120	21.5	160	134	180	28	3.0	2.4	13	1 ½
50	144	135	164	32.0	209	169	209	33	3.0	2.4	25	1 ½
50	144	135	164	32.0	209	169	209	33	3.0	3.0	25	1 ½
63	80	65	104	17.5	177	144	180	33	3.0	1.9	10	2
63	88	87	127	21.5	177	144	180	35	3.0	1.9	13	2
63	88	87	127	21.5	177	144	180	35	3.0	2.4	13	2
63	144	135	170	39.0	225	192	220	39	3.0	2.4	25	2
63	144	135	170	39.0	225	192	220	39	3.0	3.0	25	2
63	144	135	170	39.0	225	192	220	39	3.0	3.0	25	2
90	88	87	140	21.5	205	159	190	47	4.3	1.9	13	3
90	88	87	140	21.5	205	159	190	47	4.3	1.9	13	3
90	88	87	140	21.5	205	159	190	47	4.3	2.4	13	3
90	144	135	184	39.0	254	207	250	51	4.3	3.0	25	3
90	144	135	184	39.0	254	207	250	51	4.3	3.0	25	3
110	88	87	149	21.5	227	171	190	56	5.3	1.9	13	4
110	88	87	149	21.5	227	171	190	56	5.3	1.9	13	4
110	88	87	149	21.5	227	171	190	56	5.3	2.4	13	4
110	144	135	194	39.0	276	219	250	60	5.3	3.0	25	4
110	144	135	194	39.0	276	219	250	60	5.3	3.0	25	4



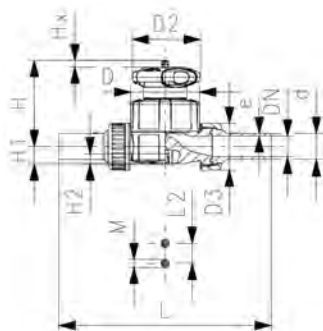
SYGEF Plus Diaphragm valve type 514 With butt fusion spigots metric

Model:

- Material: PVDF-HP
- 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

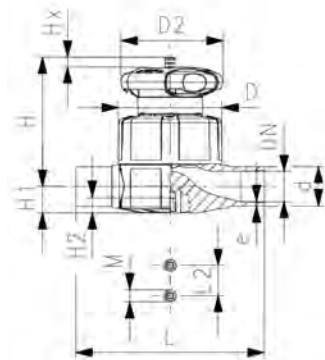
Option:

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



d (mm)	DN (mm)	PN (bar)	kv-value (Δp=1 bar) (l/min)	PTFE/EPDM Code	PTFE/FPM Code	Weight (kg)
20	15	10	125	181 514 132	181 514 152	0.399
25	20	10	271	181 514 133	181 514 153	0.597
32	25	10	481	181 514 134	181 514 154	1.111
40	32	10	759	181 514 135	181 514 155	1.286
50	40	10	1263	181 514 136	181 514 156	2.989
63	50	10	1728	181 514 137	181 514 157	3.164

d (mm)	D (mm)	D2 (mm)	D3 (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	L2 (mm)	M	e (mm)	Lift = Hx (mm)	closest inch (inch)
20	65	65	43	73	14	12	196	25	M6	1.9	7	½
25	80	65	53	81	18	12	221	25	M6	1.9	10	¾
32	88	87	60	107	22	12	234	25	M6	2.4	13	1
40	101	87	74	115	26	15	260	45	M8	2.4	15	1 ¼
50	117	135	82	148	32	15	284	45	M8 	3.0	19	1 ½
63	144	135	100	166	39	15	321	45	M8 	3.0	25	2



SYGEF Plus Diaphragm valve type 515 With butt fusion spigots metric

Model:

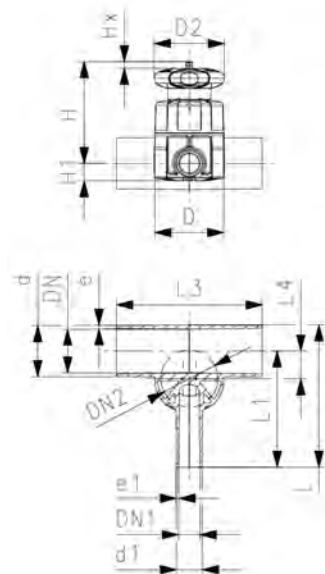
- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558

Option:

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

d	DN	PN	kv-value	PTFE/EPDM	PTFE/FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	Code	(kg)
			(l/min)			
20	15	10	125	181 515 132	181 515 152	0.295
25	20	10	271	181 515 133	181 515 153	0.438
32	25	10	481	181 515 134	181 515 154	0.870
40	32	10	759	181 515 135	181 515 155	1.103
50	40	10	1263	181 515 136	181 515 156	1.846
63	50	10	1728	181 515 137	181 515 157	2.512

d	D	D2	H	H1	H2	L	L2	M	e	Lift = Hx	closest inch
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)	(inch)
20	65	65	73	14	12	124	25	M6	1.9	7	1/2
25	80	65	81	18	12	144	25	M6	1.9	10	3/4
32	88	87	107	22	12	155	25	M6	2.4	13	1
40	101	87	115	26	15	176	45	M8	2.4	15	1 1/4
50	117	135	148	32	15	193	45	M8	3.0	19	1 1/2
63	144	135	166	39	15	223	45	M8	3.0	25	2



SYGEF Plus Diaphragm valve type 519 With butt fusion spigots metric

Model:

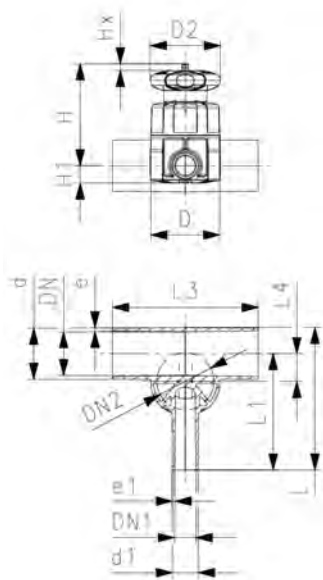
- Material: PVDF-HP
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Smallest possible dead space

Option:

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

d	DN	PN	kv-value	PTFE/EPDM	PTFE/FPM	Weight
(mm)	(mm)	(bar)	($\Delta p=1$ bar)	Code	Code	(kg)
			(l/min)			
20	15	10	57	181 519 301	181 519 501	0.350
25	20	10	89	181 519 303	181 519 503	0.476
25	20	10	118	181 519 304	181 519 504	0.633
32	25	10	80	181 519 307	181 519 507	0.692
32	25	10	105	181 519 308	181 519 508	0.721
32	25	10	231	181 519 309	181 519 509	0.889
40	32	10	85	181 519 312	181 519 512	0.963
40	32	10	119	181 519 313	181 519 513	0.812
40	32	10	153	181 519 314	181 519 514	0.845
40	32	10	187	181 519 315	181 519 515	0.866
50	40	10	86	181 519 318	181 519 518	0.789
50	40	10	160	181 519 319	181 519 519	0.905
50	40	10	206	181 519 320	181 519 520	0.926
50	40	10	524	181 519 321	181 519 521	2.381

table continued on the next page

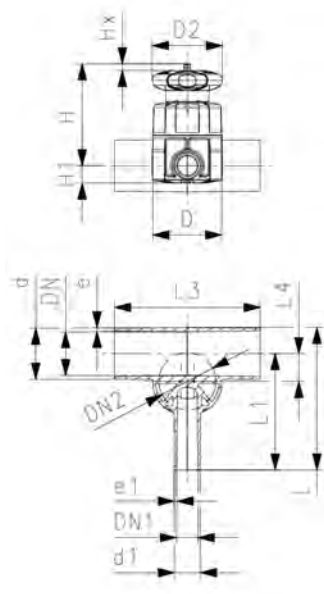


d (mm)	DN (mm)	PN (bar)	kv-value ($\Delta p=1$ bar) (l/min)	PTFE/EPDM Code	PTFE/FPM Code	Weight (kg)
50	40	10	667	181 519 322	181 519 522	2.387
63	50	10	84	181 519 325	181 519 525	0.784
63	50	10	150	181 519 326	181 519 526	1.411
63	50	10	184	181 519 327	181 519 527	1.018
63	50	10	471	181 519 328	181 519 528	2.606
63	50	10	610	181 519 329	181 519 529	3.458
63	50	10	747	181 519 330	181 519 530	2.653
90	80	10	82	181 519 341	181 519 541	1.304
90	80	10	103	181 519 342	181 519 542	1.703
90	80	10	129	181 519 343	181 519 543	1.719
90	80	10	623	181 519 345	181 519 545	3.164
90	80	10	696	181 519 346	181 519 546	3.172
110	100	10	78	181 519 351	181 519 551	1.966
110	100	10	103	181 519 352	181 519 552	1.972
110	100	10	131	181 519 353	181 519 553	1.975
110	100	10	604	181 519 355	181 519 555	4.327
110	100	10	661	181 519 356	181 519 556	3.580

d (mm)	D (mm)	D2 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	L3 (mm)	L4 (mm)	e (mm)	Lift = Hx (mm)	closest inch (inch)	d1 (mm)	Valve Size d (mm)
20	65	65	75	14.0	117	96	162	12	1.9	7	1/2	20	20
25	80	65	80	17.5	133	108	162	16	1.9	10	3/4	20	25
25	80	65	80	17.5	133	108	162	16	1.9	10	3/4	25	25
32	80	65	84	21.5	142	120	162	19	2.4	10	1	20	25
32	80	65	84	21.5	142	120	162	19	2.4	10	1	25	25
32	88	87	107	21.5	145	120	160	19	2.4	13	1	32	32
40	88	87	115	21.5	149	128	180	23	2.4	13	1 1/4	20	32
40	88	87	115	21.5	149	128	180	23	2.4	13	1 1/4	25	32
40	88	87	115	21.5	149	128	180	23	2.4	13	1 1/4	32	32
40	88	87	115	21.5	174	153	180	23	2.4	13	1 1/4	40	32
50	80	65	97	17.5	160	134	180	27	3.0	10	1 1/2	20	25
50	88	87	120	21.5	160	134	180	28	3.0	13	1 1/2	25	32
50	88	87	120	21.5	160	134	180	28	3.0	13	1 1/2	32	32
50	144	135	164	32.0	209	169	209	33	3.0	25	1 1/2	40	63
50	144	135	164	32.0	209	169	209	33	3.0	25	1 1/2	50	63
63	80	65	104	17.5	177	144	180	33	3.0	10	2	20	25
63	88	87	127	21.5	177	144	180	35	3.0	13	2	25	32
63	88	87	127	21.5	177	144	180	35	3.0	13	2	32	32
63	144	135	170	39.0	225	192	220	39	3.0	25	2	40	63
63	144	135	170	39.0	225	192	220	39	3.0	25	2	50	63
63	144	135	170	39.0	225	192	220	39	3.0	25	2	63	63
90	88	87	140	21.5	205	159	190	47	4.3	13	3	20	32
90	88	87	140	21.5	205	159	190	47	4.3	13	3	25	32
90	88	87	140	21.5	205	159	190	47	4.3	13	3	32	32
90	144	135	184	39.0	254	207	250	51	4.3	25	3	50	63
90	144	135	184	39.0	254	207	250	51	4.3	25	3	63	63
110	88	87	149	21.5	227	171	190	56	5.3	13	4	20	32
110	88	87	149	21.5	227	171	190	56	5.3	13	4	25	32
110	88	87	149	21.5	227	171	190	56	5.3	13	4	32	32
110	144	135	194	39.0	276	219	250	60	5.3	25	4	50	63
110	144	135	194	39.0	276	219	250	60	5.3	25	4	63	63

d (mm)	DN1 (mm)	DN2 (mm)	e1 (mm)
20	15	15	1.9
25	15	20	1.9
25	20	20	1.9
32	15	20	1.9
32	20	20	1.9
32	25	25	2.4
40	15	25	1.9

table continued on the next page



d	DN1	DN2	e1
(mm)	(mm)	(mm)	(mm)
40	20	25	1.9
40	25	25	2.4
40	32	25	2.4
50	15	20	1.9
50	20	25	1.9
50	25	25	2.4
50	32	50	2.4
50	40	50	3.0
63	15	20	1.9
63	20	25	1.9
63	25	25	2.4
63	32	50	2.4
63	40	50	3.0
63	50	50	3.0
90	15	25	1.9
90	20	25	1.9
90	25	25	2.4
90	40	50	3.0
90	50	50	3.0
110	15	25	1.9
110	20	25	1.9
110	25	25	2.4
110	40	50	3.0
110	50	50	3.0



SYGEF Plus Diaphragm valve type 317 With flanges metric

Model:

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

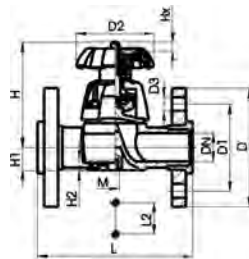
Option:

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

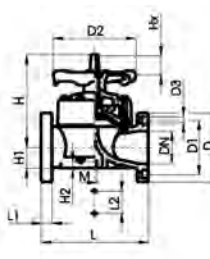
*** DN80 and DN150 fixed flanges metric and inch ANSI B16.5**

	d	Size	DN	PN	kv-value	PTFE/EPDM	Weight
	(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	Code	(kg)
					(l/min)		
	75	2 ½	65	10	992	175 317 453	5.700
*	90	3	80	10	1700	175 317 054	11.057
	110	4	100	10	2700	175 317 055	16.112
*	160	6	150	7	6033	175 317 057	31.000

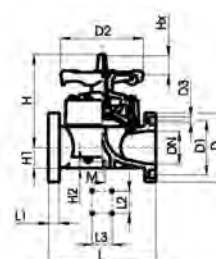
	d	D	D1	D2	D3	H	H1	H2	L	L1	L2	M	AL
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
	75	185	145	152	18	201	46	15	290		70	M8	4
*	90	200	152	270	18	265	57	23	310	35	120	M12	8
	110	225	180	270	18	302	68	23	350	35	120	M12	8
*	160	285	240	400	22	437	108	23	480	26	100	M12	8



DN 15-65



DN 80-100



DN 150



SYGEF Plus Diaphragm valve type 317 Flanged version Inch ANSI

Model:

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

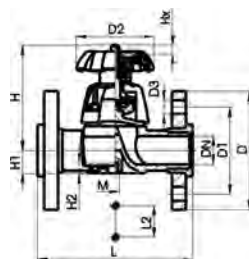
Option:

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

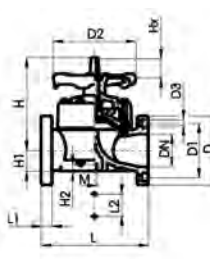
* DN80 and DN150 fixed flanges metric and inch ANSI B16.5

	d	Size	DN	PN	kv-value	PTFE with	Weight
	(mm)	(inch)	(mm)	(bar)	($\Delta p=1$ bar)	EPDM supp.	(kg)
					(l/min)	Diaphragm	
						Code	
	75	2 ½	65	10	992	175 317 568	5.700
*	90	3	80	10	1700	175 317 054	11.057
	110	4	100	10	2700	175 317 355	14.950

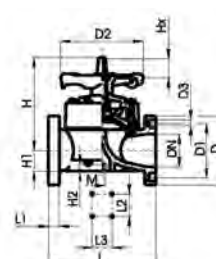
	d	D	D1	D2	D3	H	H1	H2	L	L1	L2	M	AL
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		
	75	185	140	152	18	201	46	15	290		70	M8	4
*	90	200	152	270	18	265	57	23	310	35	120	M12	8
	110	225	191	270	18	302	68	23	350	35	120	M12	8



DN 15-65



DN 80-100



DN 150