

Product Range

Butterfly Valve Type 567



List of Abbreviations

ANSI	American National Standard Institute
ASTM	American Society for Testing and Materials
BS	British Standard
DIN	Deutsche Industrie-Normen
ISO	International Standardization Organization
ABS	Acrylnitrile-Butadiene-Styrene
PVC-U	Polyvinyl chloride, unplasticized
PVC-C	Polyvinyl chloride, post-chlorinated
PP-H	Polypropylene, Homopolymeride
PE	Polyethylene
PVDF	Polyvinylidene fluoride
EPDM	Ethylene-Propylene-Rubber
FPM	Fluororubber, e.g. Viton®
PTFE	Polytetrafluoroethylene, e.g. Teflon®
d	Pipe outer diameter
DN	Nominal diameter
PN	Nominal pressure at 20 °C, water
kg	Weight in kilograms
®	Registered trademark

The technical data are not binding and not expressly warranted characteristics of the goods. They are subject to change. Our General Conditions of Sale apply.

Dimensions

All dimensions are given in mm.

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Connecting Elements

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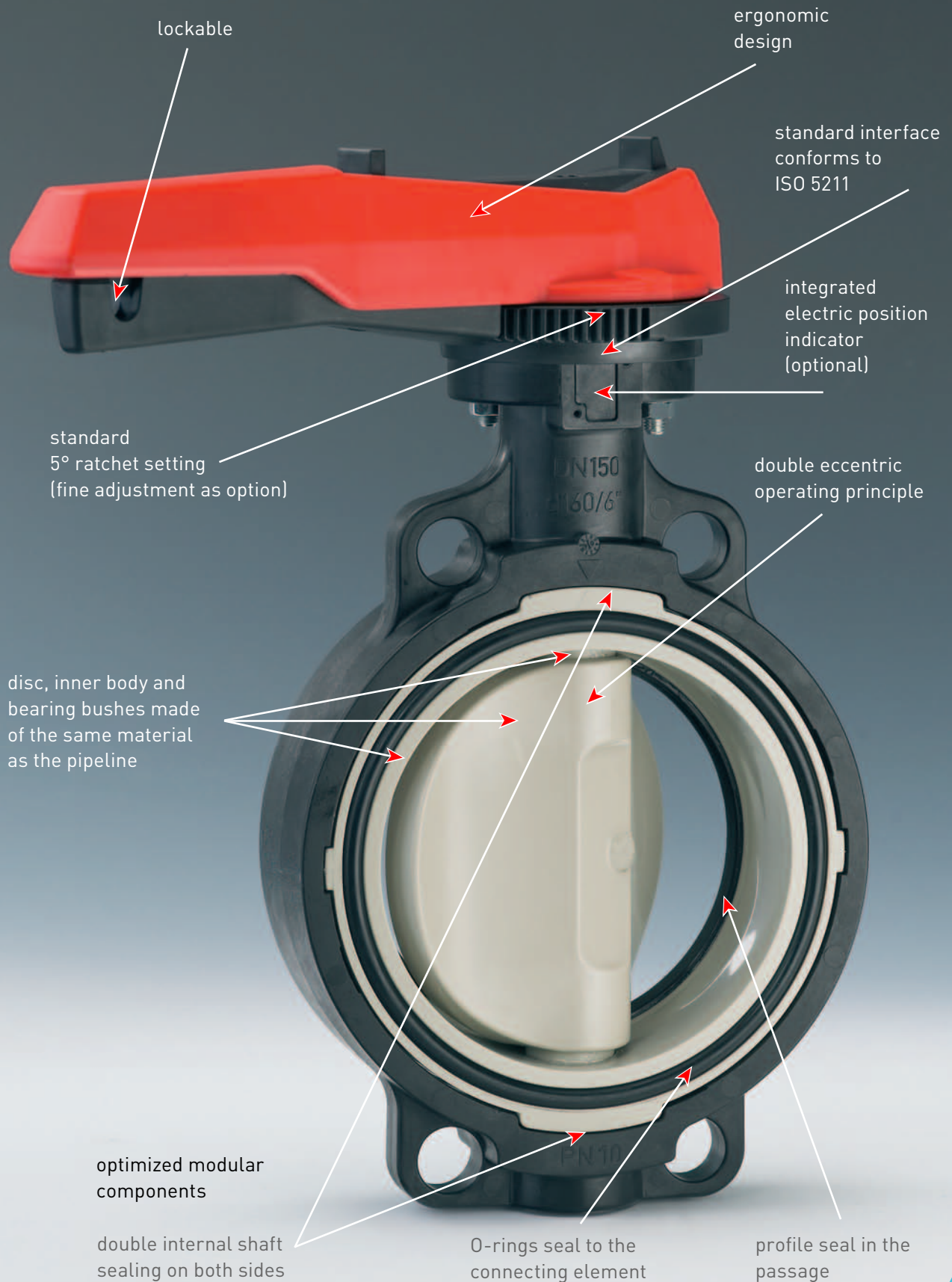
Electric Position Indication

66

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➤ A winner in every detail



One system - many options

Georg Fischer presents the new 567/568 type series of butterfly valves with a comprehensive range of products and a multitude of interesting combination possibilities. We can offer you, for example, manual valves with hand lever or reduction gear. The program also includes pneumatically or electrically actuated valves from DN50 to DN200.

Our system's modular design principle allows you to exchange individual system components – fast, easily and at very little expense. You also have a choice of materials: PVC-U, PVC-C, ABS, or β -PP-H and PVDF. Our standard sealing materials are EPDM and FPM, but other materials are available on request.

All the customary installation pipe standards are supplied:

- metric: DIN, EN, ISO
- inch: BS, ASTM
- JIS (only wafer-type valves)

With this wide range of products to choose from you can always be sure of having the best possible solution for your application.

The new butterfly valves type 567/568 from Georg Fischer Piping Systems conform to the following international standards:

prEN ISO 16136
Industrial valves – butterfly valves in thermoplastic materials

ISO 9393

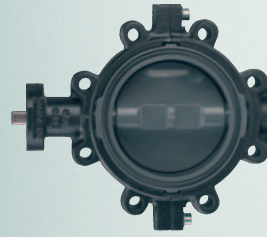
Thermoplastic valves – pressure test methods and requirements

EN 558

Face-to-face length of butterfly valves corresponds to EN 558

Approvals pending:

DIBt, NSF61, TA Luft



Standard
Lug-type butterfly valve/
end installation
Type 568

Standard
Wafer-type butterfly
valve
Type 567

Butterfly valve
with fine adjustment

Butterfly valve
with reduction gear

Butterfly valve
with pneumatic actuator
– single acting

Butterfly valve
with pneumatic actuator
– double acting; optional
manual override

Butterfly valve with
electric actuator;
optional manual
override and electric
position indicator

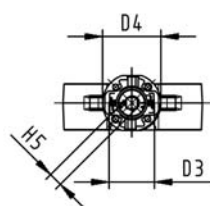
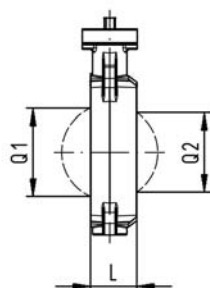
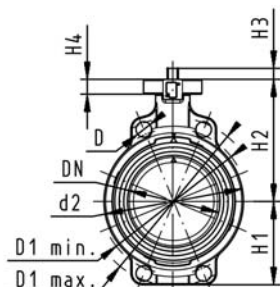
Butterfly valves PVC-U

Butterfly valve type 567 PVC-U Bare shaft



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Interface F07 according to DIN/ISO 5211



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	161 567 802	161 567 822
75	65	2 ½	10	2200	161 567 803	161 567 823
90	80	3	10	3000	161 567 804	161 567 824
110	100	4	10	6500	161 567 805	161 567 825
140	125	5	10	11500	161 567 806	161 567 826
160	150	6	10	16600	161 567 807	161 567 827
225	200	8	10	39600	161 567 808	161 567 828

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]
63	19	120.0	125.0	104	85.0	90.0	222	77	134	12	23	11	45	35.74
75	19	139.7	145.0	115	85.0	90.0	235	83	140	12	23	11	46	50.93
90	19	150.0	160.0	131	85.0	90.0	247	89	146	12	23	11	49	64.01
110	19	175.0	190.5	161	85.0	90.0	287	104	167	16	23	14	56	84.46
140	23	210.0	215.9	187	85.0	90.0	313	117	181	16	23	14	64	110.71
160	24	241.3	241.3	215	85.0	90.0	335	130	189	16	23	17	72	136.08
225	23	290.0	295.0	267	85.0	90.0	387	158	210	19	23	17	73	175.62

d [mm]	Q2 [mm]
63	
75	30.62
90	46.24
110	69.96
140	94.50
160	121.54
225	166.23

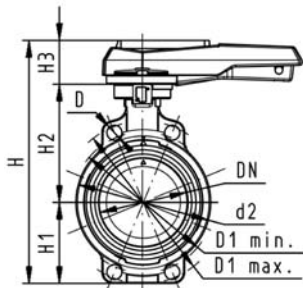


Butterfly valve type 567 PVC-U Hand lever with ratchet settings

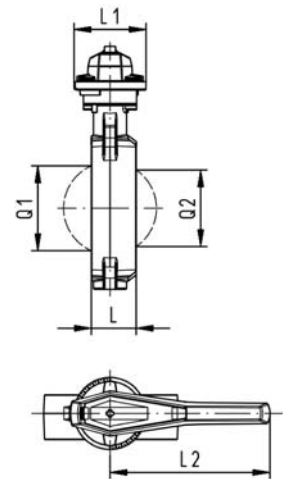


Model:

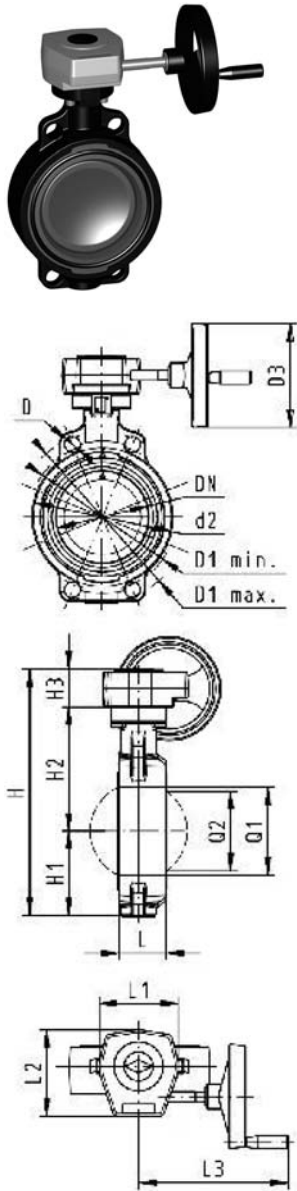
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	161 567 002	161 567 022
75	65	2 ½	10	2200	161 567 003	161 567 023
90	80	3	10	3000	161 567 004	161 567 024
110	100	4	10	6500	161 567 005	161 567 025
140	125	5	10	11500	161 567 006	161 567 026
160	150	6	10	16600	161 567 007	161 567 027
225	200	8	10	39600	161 567 008	161 567 028



d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	35.74	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	50.93	30.62
90	19	150.0	160.0	131	289	89	146	54	49	106	205	64.01	46.24
110	19	175.0	190.5	161	325	104	167	55	56	106	255	84.46	69.96
140	23	210.0	215.9	187	352	117	181	55	64	106	255	110.71	94.50
160	24	241.3	241.3	215	373	130	189	55	72	106	255	136.08	121.54
225	23	290.0	295.0	267	435	158	210	67	73	140	408	175.62	166.23



Butterfly valve type 567 PVC-U Reduction gear with handwheel



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	161 567 042	161 567 062
75	65	2 ½	10	2200	161 567 043	161 567 063
90	80	3	10	3000	161 567 044	161 567 064
110	100	4	10	6500	161 567 045	161 567 065
140	125	5	10	11500	161 567 046	161 567 066
160	150	6	10	16600	161 567 047	161 567 067
225	200	8	10	39600	161 567 048	161 567 068

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

d [mm]	Q1 [mm]	Q2 [mm]
63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
140	110.71	94.50
160	136.08	121.54
225	175.62	166.23

Butterfly valves PVC-U SF

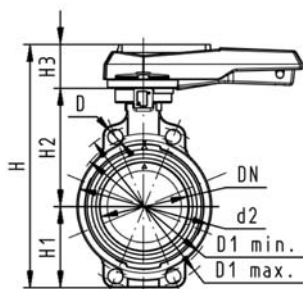
Butterfly valve type 567 PVC-U SF Hand lever with ratchet settings



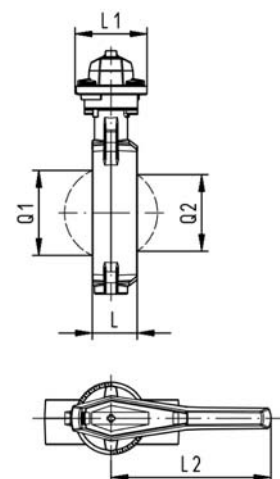
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752

Available from second quarter 2006



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	161 567 402	161 567 422
75	65	2 ½	10	2200	161 567 403	161 567 423
90	80	3	10	3000	161 567 404	161 567 424
110	100	4	10	6500	161 567 405	161 567 425
140	125	5	10	11500	161 567 406	161 567 426
160	150	6	10	16600	161 567 407	161 567 427
225	200	8	10	39600	161 567 408	161 567 428



d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	35.74	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	50.93	30.62
90	19	150.0	160.0	131	289	89	146	54	49	106	205	64.01	46.24
110	19	175.0	190.5	161	325	104	167	55	56	106	255	84.46	69.96
140	23	210.0	215.9	187	352	117	181	55	64	106	255	110.71	94.50
160	24	241.3	241.3	215	373	130	189	55	72	106	255	136.08	121.54
225	23	290.0	295.0	267	435	158	210	67	73	140	408	175.62	166.23

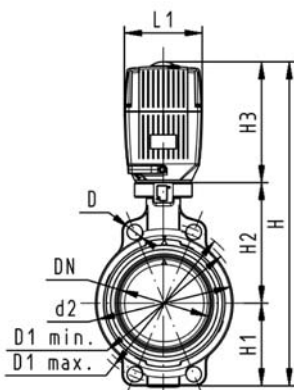
Butterfly valves electric PVC-U

Butterfly valve type 140 PVC-U 100-230V Without manual override



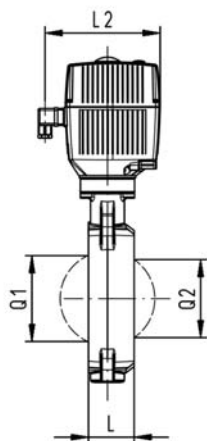
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 042	199 140 062
75	65	2 ½	10	2200	199 140 043	199 140 063
90	80	3	10	3000	199 140 044	199 140 064
110	100	4	10	6500	199 140 045	199 140 065
140	125	5	10	11500	199 140 046	199 140 066
160	150	6	10	16600	199 140 047	199 140 067
225	200	8	10	39600	199 140 048	199 140 068

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-41	23	290.0	295.0	267	575	158	210	208	73	125	180



d [mm]	Q1 [mm]	Q2 [mm]
63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
140	110.71	94.50
160	136.08	121.54
225	175.62	166.23



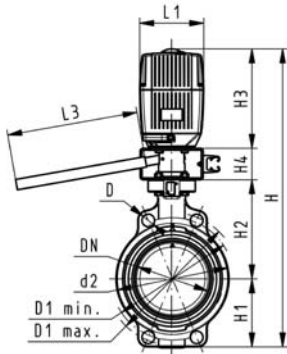
Butterfly valve type 140 PVC-U 100-230V With manual override



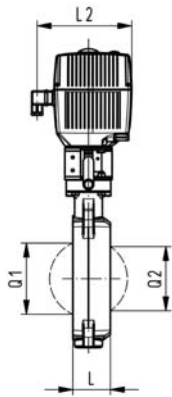
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90° (<) EA31
- Control time 8s/90° (<) EA41
- Control range 90° (<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 002	199 140 022
75	65	2 ½	10	2200	199 140 003	199 140 023
90	80	3	10	3000	199 140 004	199 140 024
110	100	4	10	6500	199 140 005	199 140 025
140	125	5	10	11500	199 140 006	199 140 026
160	150	6	10	16600	199 140 007	199 140 027
225	200	8	10	39600	199 140 008	199 140 028



d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-41	23	290.0	295.0	267	635	158	210	208	60	73	125	180



d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	200	35.74	
75	200	50.93	30.62
90	200	64.01	46.24
110	250	84.46	69.96
140	250	110.71	94.50
160	250	136.08	121.54
225	250	175.62	166.23

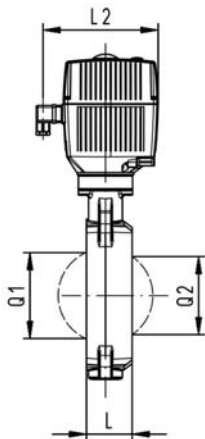
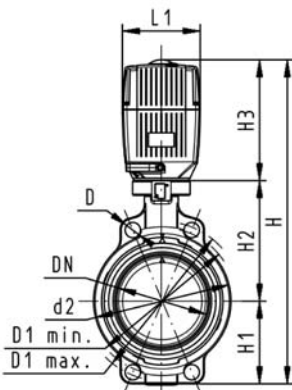


Butterfly valve type 140 PVC-U 24V Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90° <) EA31
- Control time 8s/90° <) EA41
- Control range 90° <)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 122	199 140 142
75	65	2 ½	10	2200	199 140 123	199 140 143
90	80	3	10	3000	199 140 124	199 140 144
110	100	4	10	6500	199 140 125	199 140 145
140	125	5	10	11500	199 140 126	199 140 146
160	150	6	10	16600	199 140 127	199 140 147
225	200	8	10	39600	199 140 128	199 140 148

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-41	23	290.0	295.0	267	575	158	210	208	73	125	180

d [mm]	Q1 [mm]	Q2 [mm]
63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
140	110.71	94.50
160	136.08	121.54
225	175.62	166.23



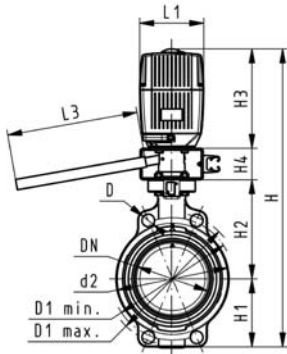
Butterfly valve type 140 PVC-U 24V With manual override



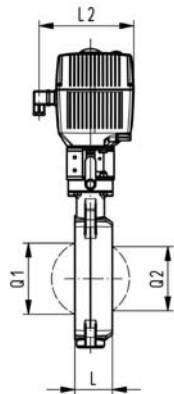
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90° (<) EA31
- Control time 8s/90° (<) EA41
- Control range 90° (<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 082	199 140 102
75	65	2 ½	10	2200	199 140 083	199 140 103
90	80	3	10	3000	199 140 084	199 140 104
110	100	4	10	6500	199 140 085	199 140 105
140	125	5	10	11500	199 140 086	199 140 106
160	150	6	10	16600	199 140 087	199 140 107
225	200	8	10	39600	199 140 088	199 140 108



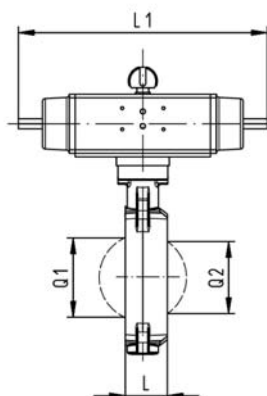
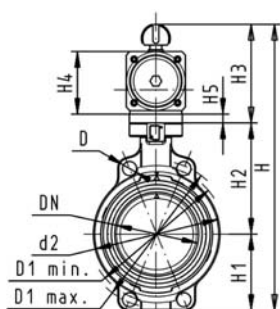
d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-41	23	290.0	295.0	267	635	158	210	208	60	73	125	180



d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	200	35.74	
75	200	50.93	30.62
90	200	64.01	46.24
110	250	84.46	69.96
140	250	110.71	94.50
160	250	136.08	121.54
225	250	175.62	166.23

Butterfly valves pneumatic PVC-U

Butterfly valve type 240 PVC-U FC (Fail safe to close) Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 002	199 240 022
75	65	2 ½	10	2200	199 240 003	199 240 023
90	80	3	10	3000	199 240 004	199 240 024
110	100	4	10	6500	199 240 005	199 240 025
140	125	5	10	11500	199 240 006	199 240 026
160	150	6	10	16600	199 240 007	199 240 027
225	200	8	10	39600	199 240 008	199 240 028

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73	452

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	35.74	
75	65	50.93	30.62
90	72	64.01	46.24
110	80	84.46	69.96
140	90	110.71	94.50
160	100	136.08	121.54
225	112	175.62	166.23



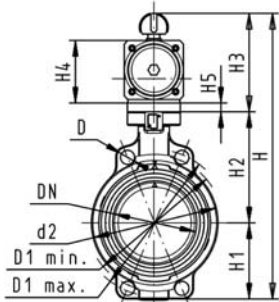
Butterfly valve type 240 PVC-U FO (Fail safe to open) Without manual override



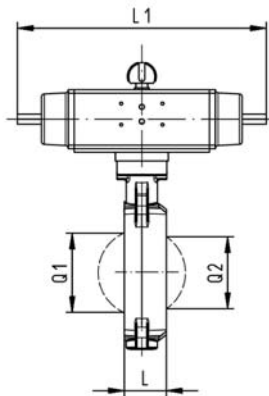
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90° <

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 042	199 240 062
75	65	2 1/2	10	2200	199 240 043	199 240 063
90	80	3	10	3000	199 240 044	199 240 064
110	100	4	10	6500	199 240 045	199 240 065
140	125	5	10	11500	199 240 046	199 240 066
160	150	6	10	16600	199 240 047	199 240 067
225	200	8	10	39600	199 240 048	199 240 068



d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73	452



d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	35.74	
75	65	50.93	30.62
90	72	64.01	46.24
110	80	84.46	69.96
140	90	110.71	94.50
160	100	136.08	121.54
225	112	175.62	166.23

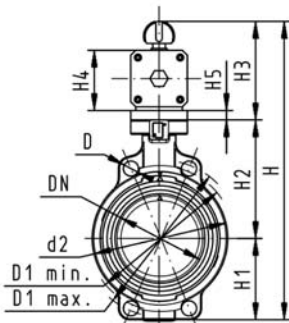


Butterfly valve type 240 PVC-U DA (Double acting) Without manual override



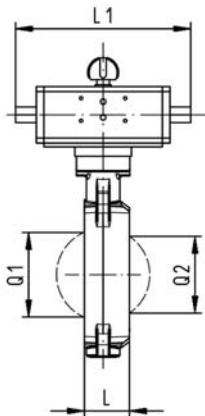
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 082	199 240 102
75	65	2 ½	10	2200	199 240 083	199 240 103
90	80	3	10	3000	199 240 084	199 240 104
110	100	4	10	6500	199 240 085	199 240 105
140	125	5	10	11500	199 240 086	199 240 106
160	150	6	10	16600	199 240 087	199 240 107
225	200	8	10	39600	199 240 088	199 240 108

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45	177
75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46	177
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49	190
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56	198
140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64	235
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72	250
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279



d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	55	35.74	
75	55	50.93	30.62
90	60	64.01	46.24
110	65	84.46	69.96
140	72	110.71	94.50
160	80	136.08	121.54
225	90	175.62	166.23

Butterfly valves PVC-C

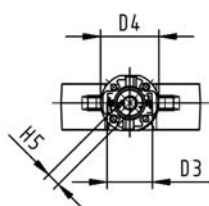
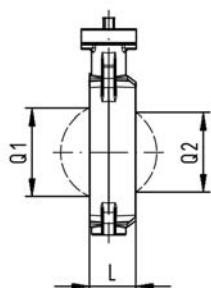
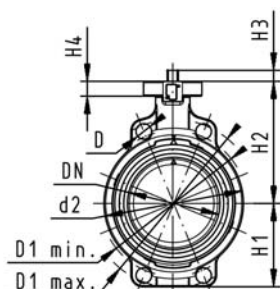
Butterfly valve type 567 PVC-C Bare shaft



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Interface F07 according to DIN/ISO 5211

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
*63	50	2	10	1470	163 567 802	163 567 822
75	65	2 ½	10	2200	163 567 803	163 567 823
90	80	3	10	3000	163 567 804	163 567 824
110	100	4	10	6500	163 567 805	163 567 825
*140	125	5	10	11500	163 567 806	163 567 826
160	150	6	10	16600	163 567 807	163 567 827
225	200	8	10	39600	163 567 808	163 567 828

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]
*63	19	120.0	125.0	104	85.0	90.0	222	77	134	12	23	11	45
75	19	139.7	145.0	115	85.0	90.0	235	83	140	12	23	11	46
90	19	150.0	160.0	131	85.0	90.0	247	89	146	12	23	11	49
110	19	175.0	190.5	161	85.0	90.0	287	104	167	16	23	14	56
*140	23	210.0	215.9	187	85.0	90.0	313	117	181	16	23	14	64
160	24	241.3	241.3	215	85.0	90.0	335	130	189	16	23	17	72
225	23	290.0	295.0	267	85.0	90.0	387	158	210	19	23	17	73

d [mm]	Q1 [mm]	Q2 [mm]
*63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
*140	110.71	94.50
160	136.08	121.54
225	175.62	166.23



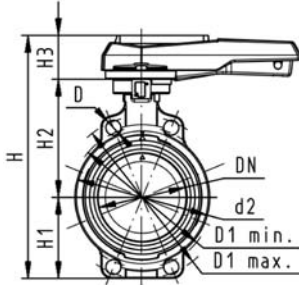
Butterfly valve type 567 PVC-C Hand lever with ratchet settings



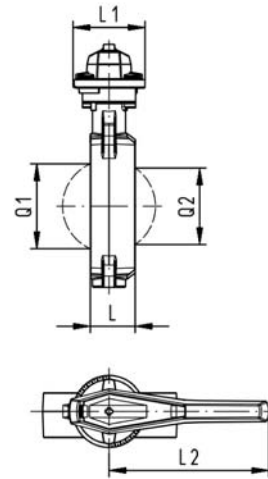
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
*63	50	2	10	1470	163 567 002	163 567 022
75	65	2 ½	10	2200	163 567 003	163 567 023
90	80	3	10	3000	163 567 004	163 567 024
110	100	4	10	6500	163 567 005	163 567 025
*140	125	5	10	11500	163 567 006	163 567 026
160	150	6	10	16600	163 567 007	163 567 027
225	200	8	10	39600	163 567 008	163 567 028



d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
*63	19	120.0	125.0	104	264	77	134	54	45	106	205	35.74	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	50.93	30.62
90	19	150.0	160.0	131	289	89	146	54	49	106	205	64.01	46.24
110	19	175.0	190.5	161	325	104	167	55	56	106	255	84.46	69.96
*140	23	210.0	215.9	187	352	117	181	55	64	106	255	110.71	94.50
160	24	241.3	241.3	215	373	130	189	55	72	106	255	136.08	121.54
225	23	290.0	295.0	267	435	158	210	67	73	140	408	175.62	166.23



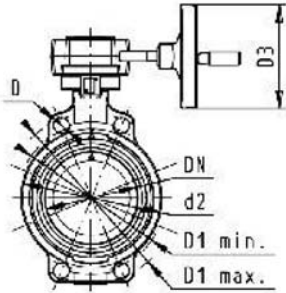
Butterfly valve type 567 PVC-C Reduction gear with handwheel



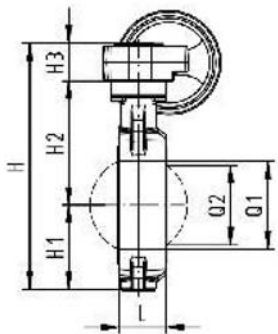
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752

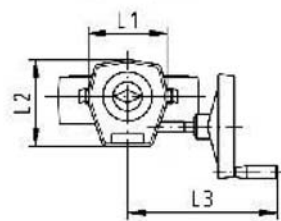
- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
*63	50	2	10	1470	163 567 042	163 567 062
75	65	2 ½	10	2200	163 567 043	163 567 063
90	80	3	10	3000	163 567 044	163 567 064
110	100	4	10	6500	163 567 045	163 567 065
*140	125	5	10	11500	163 567 046	163 567 066
160	150	6	10	16600	163 567 047	163 567 067
225	200	8	10	39600	163 567 048	163 567 068



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



d [mm]	Q1 [mm]	Q2 [mm]
*63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
*140	110.71	94.50
160	136.08	121.54
225	175.62	166.23

Butterfly valves electric PVC-C

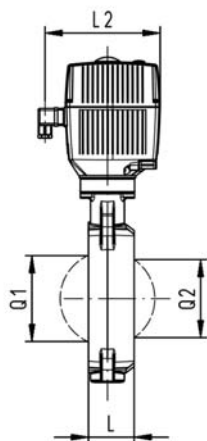
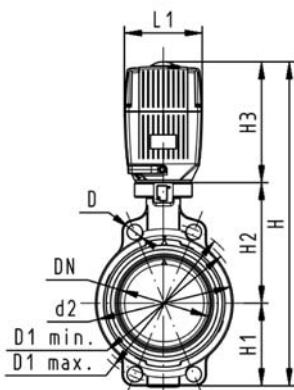
Butterfly valve type 140 PVC-C 100-230V Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
*63	50	2	10	1470	199 140 202	199 140 222	
75	65	2 1/2	10	2200	199 140 203	199 140 223	
90	80	3	10	3000	199 140 204	199 140 224	
110	100	4	10	6500	199 140 205	199 140 225	
*140	125	5	10	11500	199 140 206	199 140 226	
160	150	6	10	16600	199 140 207	199 140 227	
225	200	8	10	39600	199 140 208	199 140 228	

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
*63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
*140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-41	23	290.0	295.0	267	575	158	210	208	73	125	180

d [mm]	Q1 [mm]	Q2 [mm]	
*63	35.74		
75	50.93	30.62	
90	64.01	46.24	
110	84.46	69.96	
*140	110.71	94.50	
160	136.08	121.54	
225	175.62	166.23	

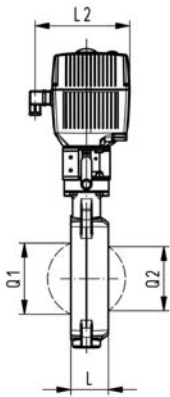
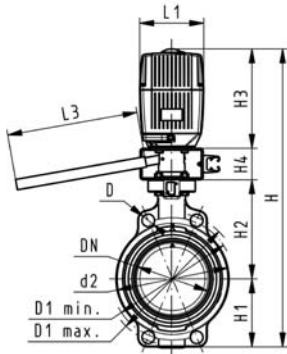


Butterfly valve type 140 PVC-C 100-230V With manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
*63	50	2	10	1470	199 140 162	199 140 182
75	65	2 ½	10	2200	199 140 163	199 140 183
90	80	3	10	3000	199 140 164	199 140 184
110	100	4	10	6500	199 140 165	199 140 185
*140	125	5	10	11500	199 140 166	199 140 186
160	150	6	10	16600	199 140 167	199 140 187
225	200	8	10	39600	199 140 168	199 140 188

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]
*63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122
*140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122
225	EA-41	23	290.0	295.0	267	635	158	210	208	60	73	125

d [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
*63	180	200	35.74	
75	180	200	50.93	30.62
90	180	200	64.01	46.24
110	180	250	84.46	69.96
*140	180	250	110.71	94.50
160	180	250	136.08	121.54
225	180	250	175.62	166.23

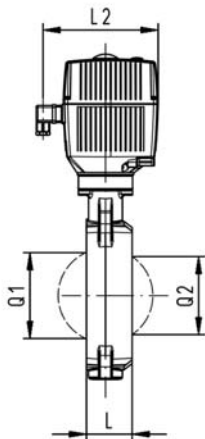
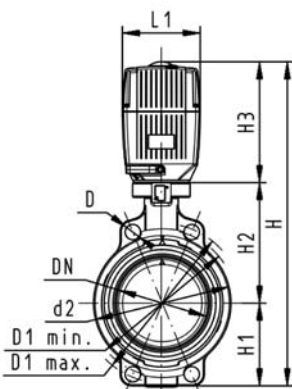


Butterfly valve type 140 PVC-C 24V Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90° (<) EA31
- Control time 8s/90° (<) EA41
- Control range 90° (<)
- Actuator with integrated emergency manual override standard
- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
*63	50	2	10	1470	199 140 282	199 140 302
75	65	2 ½	10	2200	199 140 283	199 140 303
90	80	3	10	3000	199 140 284	199 140 304
110	100	4	10	6500	199 140 285	199 140 305
*140	125	5	10	11500	199 140 286	199 140 306
160	150	6	10	16600	199 140 287	199 140 307
225	200	8	10	39600	199 140 288	199 140 308

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
*63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
*140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-41	23	290.0	295.0	267	575	158	210	208	73	125	180

d [mm]	Q1 [mm]	Q2 [mm]
*63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
*140	110.71	94.50
160	136.08	121.54
225	175.62	166.23

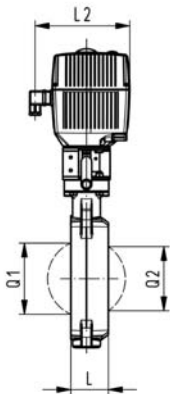
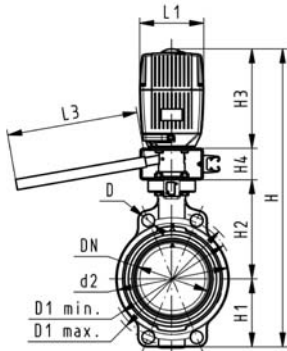


Butterfly valve type 140 PVC-C 24V With manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- * Available on request



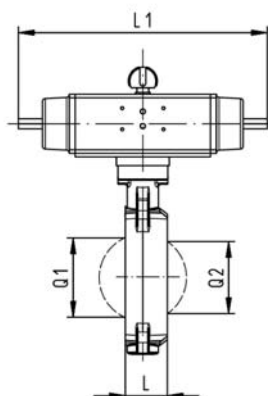
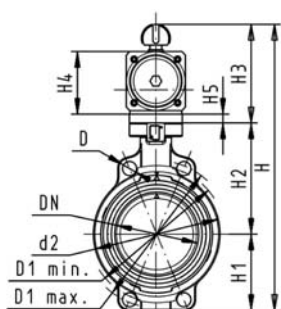
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
*63	50	2	10	1470	199 140 242	199 140 262
75	65	2 ½	10	2200	199 140 243	199 140 263
90	80	3	10	3000	199 140 244	199 140 264
110	100	4	10	6500	199 140 245	199 140 265
*140	125	5	10	11500	199 140 246	199 140 266
160	150	6	10	16600	199 140 247	199 140 267
225	200	8	10	39600	199 140 248	199 140 268

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]
*63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122
*140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122
225	EA-41	23	290.0	295.0	267	635	158	210	208	60	73	125

d [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
*63	180	200	35.74	
75	180	200	50.93	30.62
90	180	200	64.01	46.24
110	180	250	84.46	69.96
*140	180	250	110.71	94.50
160	180	250	136.08	121.54
225	180	250	175.62	166.23

Butterfly valves pneumatic PVC-C

Butterfly valve type 240 PVC-C FC (Fail safe to close) Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<

- * Available on request

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
*63	50	2	10	1470	199 240 162	199 240 182
75	65	2 ½	10	2200	199 240 163	199 240 183
90	80	3	10	3000	199 240 164	199 240 184
110	100	4	10	6500	199 240 165	199 240 185
*140	125	5	10	11500	199 240 166	199 240 186
160	150	6	10	16600	199 240 167	199 240 187
225	200	8	10	39600	199 240 168	199 240 188

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]
*63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45
75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56
*140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73

d [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
*63	276	65	35.74	
75	276	65	50.93	30.62
90	326	72	64.01	46.24
110	370	80	84.46	69.96
*140	411	90	110.71	94.50
160	423	100	136.08	121.54
225	452	112	175.62	166.23



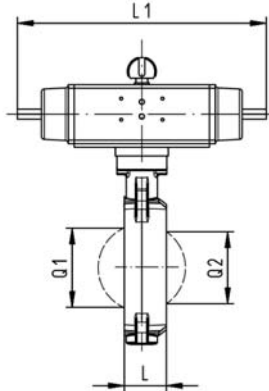
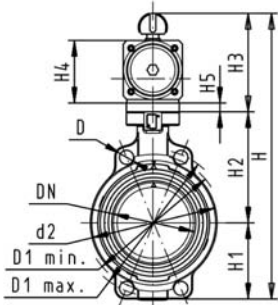
Butterfly valve type 240 PVC-C FO (Fail safe to open) Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90° <

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
*63	50	2	10	1470	199 240 202	199 240 222
75	65	2 ½	10	2200	199 240 203	199 240 223
90	80	3	10	3000	199 240 204	199 240 224
110	100	4	10	6500	199 240 205	199 240 225
*140	125	5	10	11500	199 240 206	199 240 226
160	150	6	10	16600	199 240 207	199 240 227
225	200	8	10	39600	199 240 208	199 240 228

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]
*63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56
*140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73

d [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
*63	276	65	35.74	
75	276	65	50.93	30.62
90	326	72	64.01	46.24
110	370	80	84.46	69.96
*140	411	90	110.71	94.50
160	423	100	136.08	121.54
225	452	112	175.62	166.23



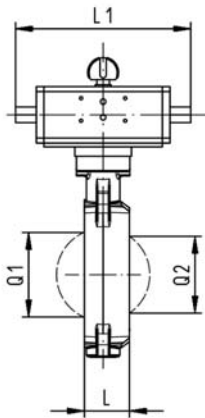
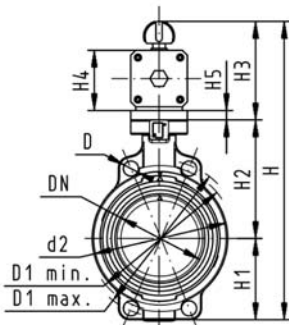
Butterfly valve type 240 PVC-C DA (Double acting) Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90° <

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code	
*63	50	2	10	1470	199 240 242	199 240 262	
75	65	2 ½	10	2200	199 240 243	199 240 263	
90	80	3	10	3000	199 240 244	199 240 264	
110	100	4	10	6500	199 240 245	199 240 265	
*140	125	5	10	11500	199 240 246	199 240 266	
160	150	6	10	16600	199 240 247	199 240 267	
225	200	8	10	39600	199 240 248	199 240 268	

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]
*63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45
75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56
*140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73

d [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
*63	177	55	35.74	
75	177	55	50.93	30.62
90	190	60	64.01	46.24
110	198	65	84.46	69.96
*140	235	72	110.71	94.50
160	250	80	136.08	121.54
225	279	90	175.62	166.23

Butterfly valves ABS

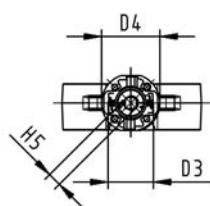
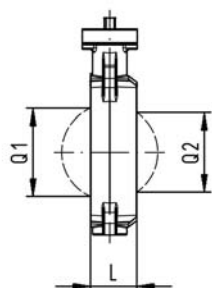
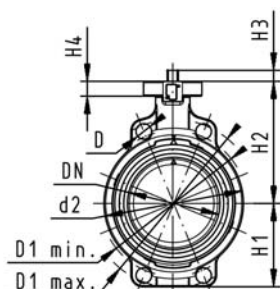
Butterfly valve type 567 ABS Bare shaft



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Interface F07 according to DIN/ISO 5211

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
*63	50	2	10	1470	169 567 802
*75	65	2 ½	10	2200	169 567 803
90	80	3	10	3000	169 567 804
110	100	4	10	6500	169 567 805
*140	125	5	10	11500	169 567 806
160	150	6	10	16600	169 567 807
225	200	8	10	39600	169 567 808

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]
*63	19	120.0	125.0	104	85.0	90.0	222	77	134	12	23	11	45
*75	19	139.7	145.0	115	85.0	90.0	235	83	140	12	23	11	46
90	19	150.0	160.0	131	85.0	90.0	247	89	146	12	23	11	49
110	19	175.0	190.5	161	85.0	90.0	287	104	167	16	23	14	56
*140	23	210.0	215.9	187	85.0	90.0	313	117	181	16	23	14	64
160	24	241.3	241.3	215	85.0	90.0	335	130	189	16	23	17	72
225	23	290.0	295.0	267	85.0	90.0	387	158	210	19	23	17	73

d [mm]	Q1 [mm]	Q2 [mm]
*63	35.74	
*75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
*140	110.71	94.50
160	136.08	121.54
225	175.62	166.23



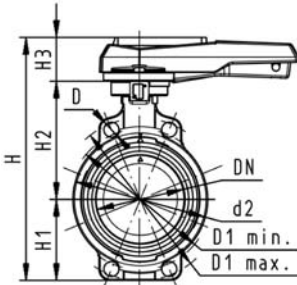
Butterfly valve type 567 ABS Hand lever with ratchet settings



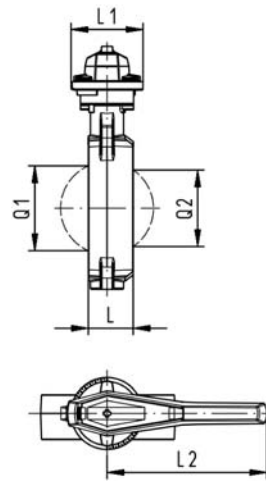
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
*63	50	2	10	1470	169 567 002
*75	65	2 ½	10	2200	169 567 003
90	80	3	10	3000	169 567 004
110	100	4	10	6500	169 567 005
*140	125	5	10	11500	169 567 006
160	150	6	10	16600	169 567 007
225	200	8	10	39600	169 567 008



d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
*63	19	120.0	125.0	104	264	77	134	54	45	106	205	35.74	
*75	19	139.7	145.0	115	277	83	140	54	46	106	205	50.93	30.62
90	19	150.0	160.0	131	289	89	146	54	49	106	205	64.01	46.24
110	19	175.0	190.5	161	325	104	167	55	56	106	255	84.46	69.96
*140	23	210.0	215.9	187	352	117	181	55	64	106	255	110.71	94.50
160	24	241.3	241.3	215	373	130	189	55	72	106	255	136.08	121.54
225	23	290.0	295.0	267	435	158	210	67	73	140	408	175.62	166.23



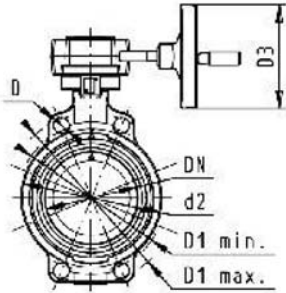
Butterfly valve type 567 ABS Reduction gear with handwheel



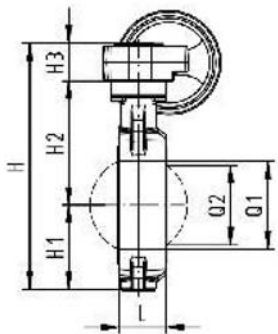
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752

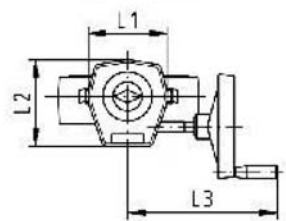
- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
*63	50	2	10	1470	169 567 022
*75	65	2 ½	10	2200	169 567 023
90	80	3	10	3000	169 567 024
110	100	4	10	6500	169 567 025
*140	125	5	10	11500	169 567 026
160	150	6	10	16600	169 567 027
225	200	8	10	39600	169 567 028



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



d [mm]	Q1 [mm]	Q2 [mm]
*63	35.74	
*75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
*140	110.71	94.50
160	136.08	121.54
225	175.62	166.23

Butterfly valves electric ABS

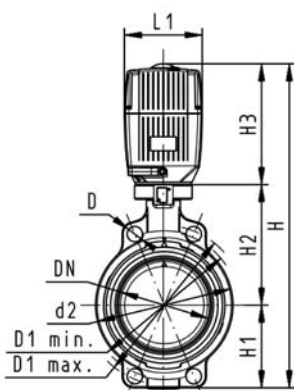
Butterfly valve type 140 ABS 100-230V Without manual override



Model:

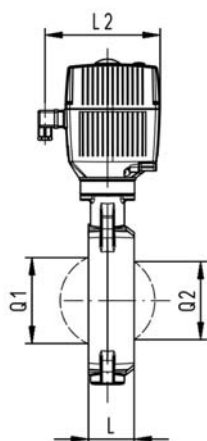
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
*63	50	2	10	1470	199 140 502
*75	65	2 ½	10	2200	199 140 503
90	80	3	10	3000	199 140 504
110	100	4	10	6500	199 140 505
*140	125	5	10	11500	199 140 506
160	150	6	10	16600	199 140 507
225	200	8	10	39600	199 140 508

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
*63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
*75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
*140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-41	23	290.0	295.0	267	575	158	210	208	73	125	180



d [mm]	Q1 [mm]	Q2 [mm]
*63	35.74	
*75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
*140	110.71	94.50
160	136.08	121.54
225	175.62	166.23



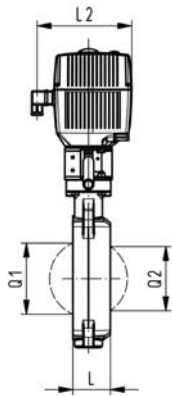
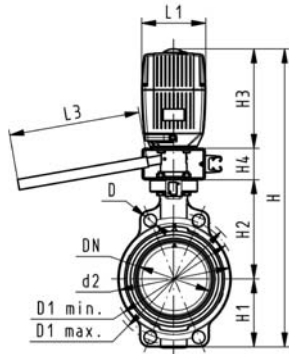
Butterfly valve type 140 ABS 100-230V With manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
*63	50	2	10	1470	199 140 482
*75	65	2 ½	10	2200	199 140 483
90	80	3	10	3000	199 140 484
110	100	4	10	6500	199 140 485
*140	125	5	10	11500	199 140 486
160	150	6	10	16600	199 140 487
225	200	8	10	39600	199 140 488

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]
*63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122
*75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122
*140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122
225	EA-41	23	290.0	295.0	267	635	158	210	208	60	73	125

d [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
*63	180	200	35.74	
*75	180	200	50.93	30.62
90	180	200	64.01	46.24
110	180	250	84.46	69.96
*140	180	250	110.71	94.50
160	180	250	136.08	121.54
225	180	250	175.62	166.23

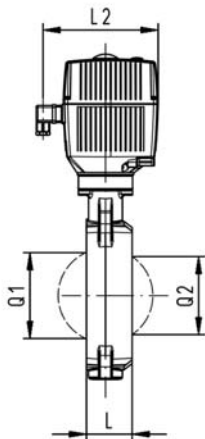
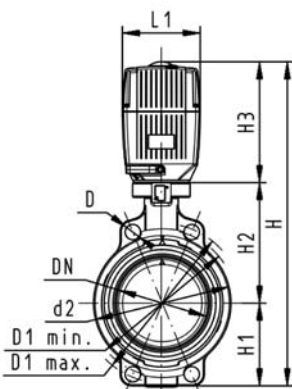


Butterfly valve type 140 ABS 24V Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
*63	50	2	10	1470	199 140 542
*75	65	2 ½	10	2200	199 140 543
90	80	3	10	3000	199 140 544
110	100	4	10	6500	199 140 545
*140	125	5	10	11500	199 140 546
160	150	6	10	16600	199 140 547
225	200	8	10	39600	199 140 548

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
*63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
*75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
*140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-41	23	290.0	295.0	267	575	158	210	208	73	125	180

d [mm]	Q1 [mm]	Q2 [mm]
*63	35.74	
*75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
*140	110.71	94.50
160	136.08	121.54
225	175.62	166.23



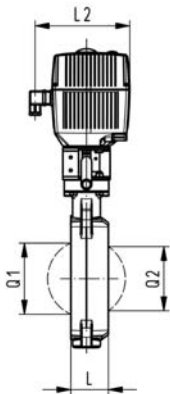
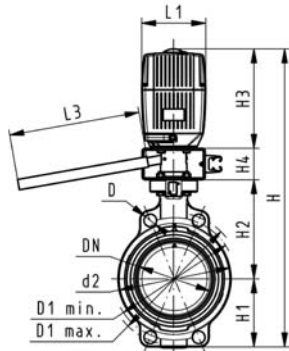
Butterfly valve type 140 ABS 24V With manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard

- * Available on request



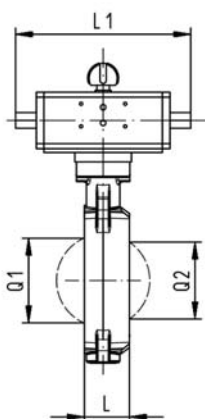
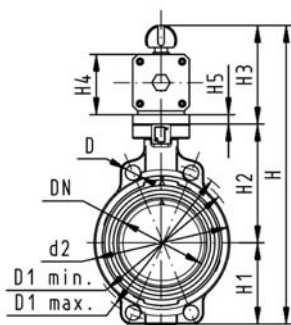
d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
*63	50	2	10	1470	199 140 522
*75	65	2 ½	10	2200	199 140 523
90	80	3	10	3000	199 140 524
110	100	4	10	6500	199 140 525
*140	125	5	10	11500	199 140 526
160	150	6	10	16600	199 140 527
225	200	8	10	39600	199 140 528

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]
*63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122
*75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122
*140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122
225	EA-41	23	290.0	295.0	267	635	158	210	208	60	73	125

d [mm]	L2 [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
*63	180	200	35.74	
*75	180	200	50.93	30.62
90	180	200	64.01	46.24
110	180	250	84.46	69.96
*140	180	250	110.71	94.50
160	180	250	136.08	121.54
225	180	250	175.62	166.23

Butterfly valves pneumatic ABS

Butterfly valve type 240 ABS DA (Double acting) Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<

- * Available on request

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
*63	50	2	10	1470	199 240 442
*75	65	2 ½	10	2200	199 240 443
90	80	3	10	3000	199 240 444
110	100	4	10	6500	199 240 445
*140	125	5	10	11500	199 240 446
160	150	6	10	16600	199 240 447
225	200	8	10	39600	199 240 448

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]
*63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45
*75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56
*140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73

d [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
*63	177	55	35.74	
*75	177	55	50.93	30.62
90	190	60	64.01	46.24
110	198	65	84.46	69.96
*140	235	72	110.71	94.50
160	250	80	136.08	121.54
225	279	90	175.62	166.23



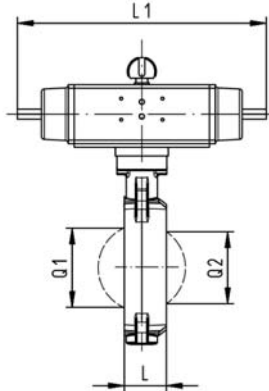
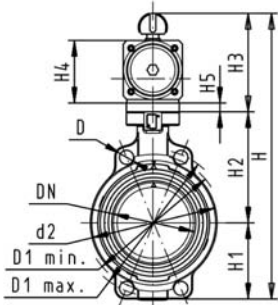
Butterfly valve type 240 ABS FC (Fail safe to close) Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90° <

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
*63	50	2	10	1470	199 240 402
*75	65	2 ½	10	2200	199 240 403
90	80	3	10	3000	199 240 404
110	100	4	10	6500	199 240 405
*140	125	5	10	11500	199 240 406
160	150	6	10	16600	199 240 407
225	200	8	10	39600	199 240 408

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]
*63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45
*75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56
*140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73

d [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
*63	276	65	35.74	
*75	276	65	50.93	30.62
90	326	72	64.01	46.24
110	370	80	84.46	69.96
*140	411	90	110.71	94.50
160	423	100	136.08	121.54
225	452	112	175.62	166.23



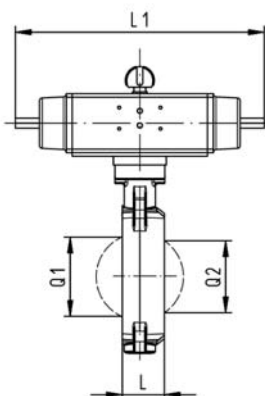
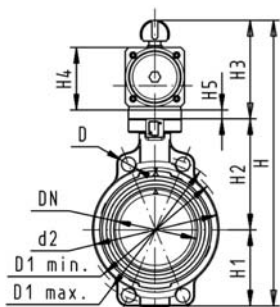
Butterfly valve type 240 ABS FO (Fail safe to open) Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<

- * Available on request



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code
*63	50	2	10	1470	199 240 422
*75	65	2 ½	10	2200	199 240 423
90	80	3	10	3000	199 240 424
110	100	4	10	6500	199 240 425
*140	125	5	10	11500	199 240 426
160	150	6	10	16600	199 240 427
225	200	8	10	39600	199 240 428

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]
*63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45
*75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56
*140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73

d [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
*63	276	65	35.74	
*75	276	65	50.93	30.62
90	326	72	64.01	46.24
110	370	80	84.46	69.96
*140	411	90	110.71	94.50
160	423	100	136.08	121.54
225	452	112	175.62	166.23

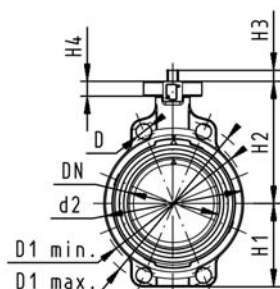
Butterfly valves PP-H

Butterfly valve type 567 PP-H Bare shaft

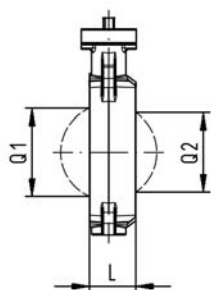


Model:

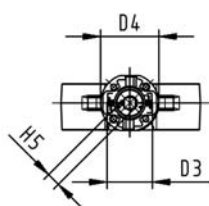
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Interface F07 according to DIN/ISO 5211



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	167 567 802	167 567 822
75	65	2 ½	10	2200	167 567 803	167 567 823
90	80	3	10	3000	167 567 804	167 567 824
110	100	4	10	6500	167 567 805	167 567 825
140	125	5	10	11500	167 567 806	167 567 826
160	150	6	10	16600	167 567 807	167 567 827
225	200	8	10	39600	167 567 808	167 567 828



d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]
63	19	120.0	125.0	104	85.0	90.0	222	77	134	12	23	11	45	35.74
75	19	139.7	145.0	115	85.0	90.0	235	83	140	12	23	11	46	50.93
90	19	150.0	160.0	131	85.0	90.0	247	89	146	12	23	11	49	64.01
110	19	175.0	190.5	161	85.0	90.0	287	104	167	16	23	14	56	84.46
140	23	210.0	215.9	187	85.0	90.0	313	117	181	16	23	14	64	110.71
160	24	241.3	241.3	215	85.0	90.0	335	130	189	16	23	17	72	136.08
225	23	290.0	295.0	267	85.0	90.0	387	158	210	19	23	17	73	175.62



d [mm]	Q2 [mm]
63	
75	30.62
90	46.24
110	69.96
140	94.50
160	121.54
225	166.23

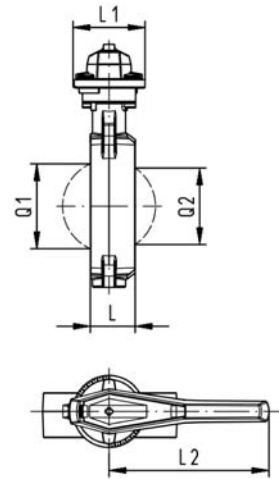
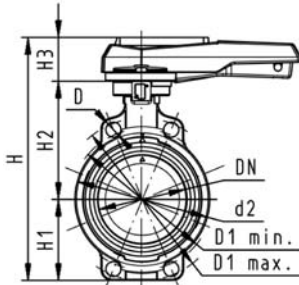


Butterfly valve type 567 PP-H Hand lever with ratchet settings



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	167 567 002	167 567 022
75	65	2 ½	10	2200	167 567 003	167 567 023
90	80	3	10	3000	167 567 004	167 567 024
110	100	4	10	6500	167 567 005	167 567 025
140	125	5	10	11500	167 567 006	167 567 026
160	150	6	10	16600	167 567 007	167 567 027
225	200	8	10	39600	167 567 008	167 567 028

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	35.74	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	50.93	30.62
90	19	150.0	160.0	131	289	89	146	54	49	106	205	64.01	46.24
110	19	175.0	190.5	161	325	104	167	55	56	106	255	84.46	69.96
140	23	210.0	215.9	187	352	117	181	55	64	106	255	110.71	94.50
160	24	241.3	241.3	215	373	130	189	55	72	106	255	136.08	121.54
225	23	290.0	295.0	267	435	158	210	67	73	140	408	175.62	166.23

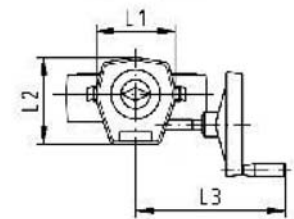
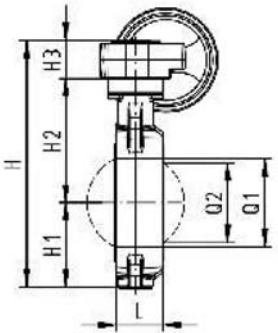
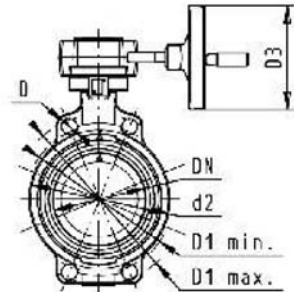


Butterfly valve type 567 PP-H Reduction gear with handwheel



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	167 567 042	167 567 062
75	65	2 ½	10	2200	167 567 043	167 567 063
90	80	3	10	3000	167 567 044	167 567 064
110	100	4	10	6500	167 567 045	167 567 065
140	125	5	10	11500	167 567 046	167 567 066
160	150	6	10	16600	167 567 047	167 567 067
225	200	8	10	39600	167 567 048	167 567 068

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

d [mm]	Q1 [mm]	Q2 [mm]
63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
140	110.71	94.50
160	136.08	121.54
225	175.62	166.23

Butterfly valves PROGEF® SF

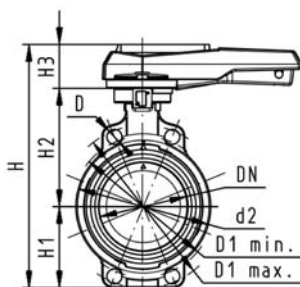
PROGEF® Plus silicone free Butterfly valve type 567 PP-H SF Hand lever with ratchet settings



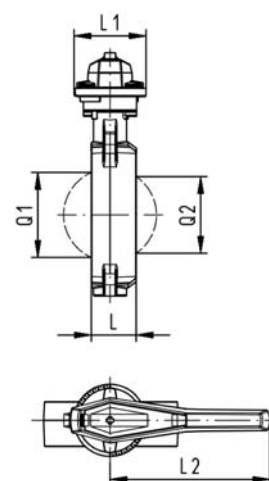
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752

Available from second quarter 2006



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	167 567 402	167 567 422
75	65	2 ½	10	2200	167 567 403	167 567 423
90	80	3	10	3000	167 567 404	167 567 424
110	100	4	10	6500	167 567 405	167 567 425
140	125	5	10	11500	167 567 406	167 567 426
160	150	6	10	16600	167 567 407	167 567 427
225	200	8	10	39600	167 567 408	167 567 428



d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	35.74	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	50.93	30.62
90	19	150.0	160.0	131	289	89	146	54	49	106	205	64.01	46.24
110	19	175.0	190.5	161	325	104	167	55	56	106	255	84.46	69.96
140	23	210.0	215.9	187	352	117	181	55	64	106	255	110.71	94.50
160	24	241.3	241.3	215	373	130	189	55	72	106	255	136.08	121.54
225	23	290.0	295.0	267	435	158	210	67	73	140	408	175.62	166.23

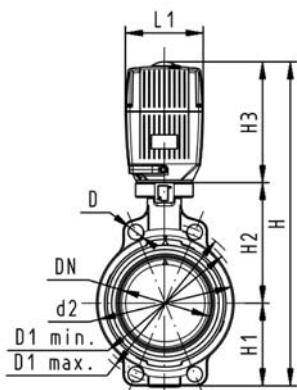
Butterfly valves electric PP-H

Butterfly valve type 140 PP-H 24V Without manual override



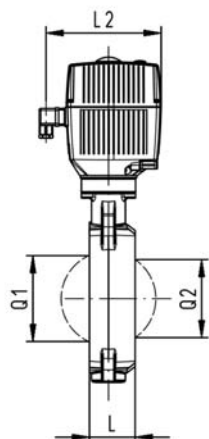
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 442	199 140 462
75	65	2 1/2	10	2200	199 140 443	199 140 463
90	80	3	10	3000	199 140 444	199 140 464
110	100	4	10	6500	199 140 445	199 140 465
140	125	5	10	11500	199 140 446	199 140 466
160	150	6	10	16600	199 140 447	199 140 467
225	200	8	10	39600	199 140 448	199 140 468

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-41	23	290.0	295.0	267	575	158	210	208	73	125	180



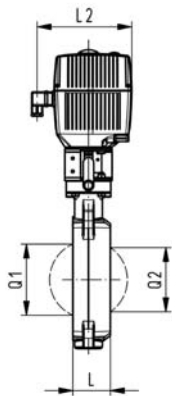
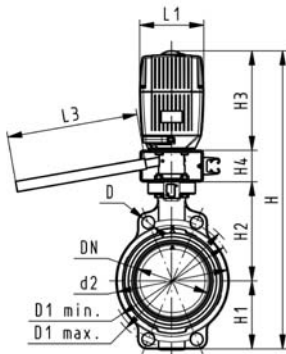
d [mm]	Q1 [mm]	Q2 [mm]
63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
140	110.71	94.50
160	136.08	121.54
225	175.62	166.23



Butterfly valve type 140 PP-H 24V With manual override

Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90° (<) EA31
- Control time 8s/90° (<) EA41
- Control range 90° (<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 402	199 140 422
75	65	2 ½	10	2200	199 140 403	199 140 423
90	80	3	10	3000	199 140 404	199 140 424
110	100	4	10	6500	199 140 405	199 140 425
140	125	5	10	11500	199 140 406	199 140 426
160	150	6	10	16600	199 140 407	199 140 427
225	200	8	10	39600	199 140 408	199 140 428

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-41	23	290.0	295.0	267	635	158	210	208	60	73	125	180

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	200	35.74	
75	200	50.93	30.62
90	200	64.01	46.24
110	250	84.46	69.96
140	250	110.71	94.50
160	250	136.08	121.54
225	250	175.62	166.23

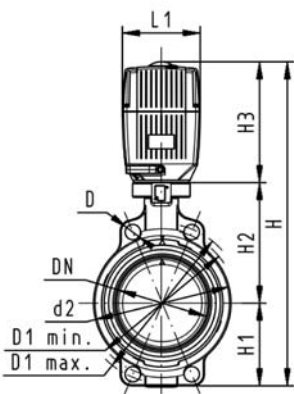


Butterfly valve type 140 PP-H 100-230V Without manual override



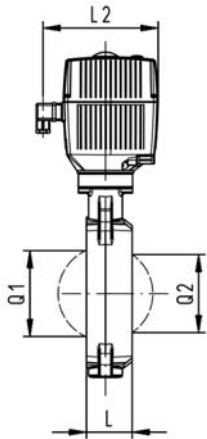
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90° (<) EA31
- Control time 8s/90° (<) EA41
- Control range 90° (<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 362	199 140 382
75	65	2 ½	10	2200	199 140 363	199 140 383
90	80	3	10	3000	199 140 364	199 140 384
110	100	4	10	6500	199 140 365	199 140 385
140	125	5	10	11500	199 140 366	199 140 386
160	150	6	10	16600	199 140 367	199 140 387
225	200	8	10	39600	199 140 368	199 140 388

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-41	23	290.0	295.0	267	575	158	210	208	73	125	180



d [mm]	Q1 [mm]	Q2 [mm]
63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
140	110.71	94.50
160	136.08	121.54
225	175.62	166.23

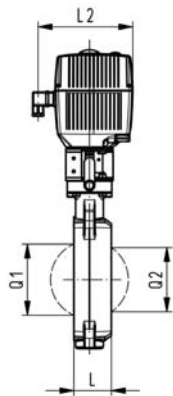
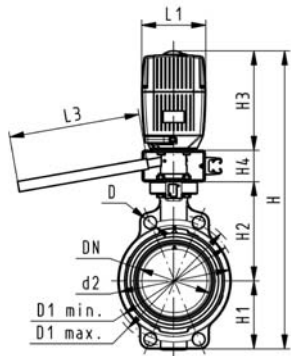


Butterfly valve type 140 PP-H 100-230V With manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90° (<) EA31
- Control time 8s/90° (<) EA41
- Control range 90° (<)
- Actuator with integrated emergency manual override standard



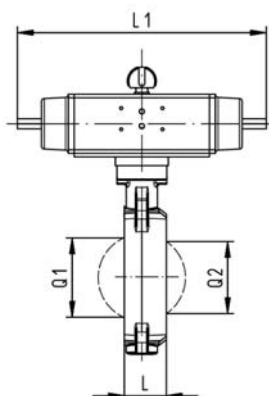
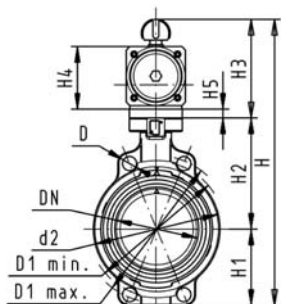
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 140 322	199 140 342
75	65	2 ½	10	2200	199 140 323	199 140 343
90	80	3	10	3000	199 140 324	199 140 344
110	100	4	10	6500	199 140 325	199 140 345
140	125	5	10	11500	199 140 326	199 140 346
160	150	6	10	16600	199 140 327	199 140 347
225	200	8	10	39600	199 140 328	199 140 348

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-41	23	290.0	295.0	267	635	158	210	208	60	73	125	180

d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	200	35.74	
75	200	50.93	30.62
90	200	64.01	46.24
110	250	84.46	69.96
140	250	110.71	94.50
160	250	136.08	121.54
225	250	175.62	166.23

Butterfly valves pneumatic PP-H

Butterfly valve type 240 PP-H FC (Fail safe to close) Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 282	199 240 302
75	65	2 ½	10	2200	199 240 283	199 240 303
90	80	3	10	3000	199 240 284	199 240 304
110	100	4	10	6500	199 240 285	199 240 305
140	125	5	10	11500	199 240 286	199 240 306
160	150	6	10	16600	199 240 287	199 240 307
225	200	8	10	39600	199 240 288	199 240 308

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73	452

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	35.74	
75	65	50.93	30.62
90	72	64.01	46.24
110	80	84.46	69.96
140	90	110.71	94.50
160	100	136.08	121.54
225	112	175.62	166.23

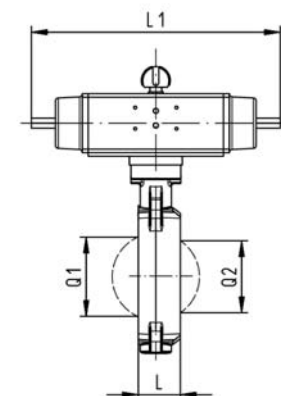
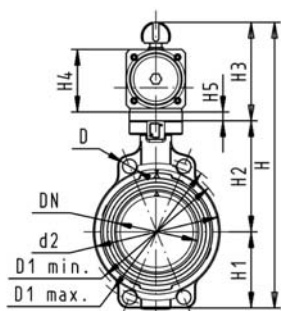


Butterfly valve type 240 PP-H FO (Fail safe to open) Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90°<



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 322	199 240 342
75	65	2 ½	10	2200	199 240 323	199 240 343
90	80	3	10	3000	199 240 324	199 240 344
110	100	4	10	6500	199 240 325	199 240 345
140	125	5	10	11500	199 240 326	199 240 346
160	150	6	10	16600	199 240 327	199 240 347
225	200	8	10	39600	199 240 328	199 240 348

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73	452

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	35.74	
75	65	50.93	30.62
90	72	64.01	46.24
110	80	84.46	69.96
140	90	110.71	94.50
160	100	136.08	121.54
225	112	175.62	166.23

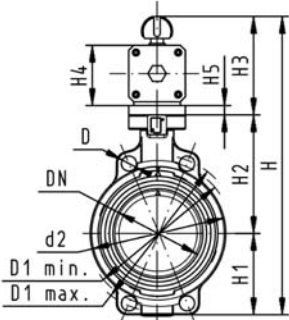


Butterfly valve type 240 PP-H DA (Double acting) Without manual override



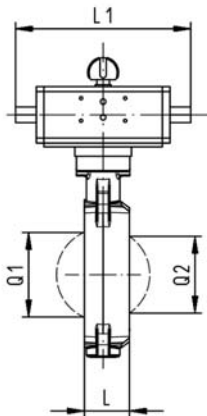
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90° <



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	199 240 362	199 240 382
75	65	2 1/2	10	2200	199 240 363	199 240 383
90	80	3	10	3000	199 240 364	199 240 384
110	100	4	10	6500	199 240 365	199 240 385
140	125	5	10	11500	199 240 366	199 240 386
160	150	6	10	16600	199 240 367	199 240 387
225	200	8	10	39600	199 240 368	199 240 388

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45	177
75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46	177
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49	190
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56	198
140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64	235
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72	250
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279



d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	55	35.74	
75	55	50.93	30.62
90	60	64.01	46.24
110	65	84.46	69.96
140	72	110.71	94.50
160	80	136.08	121.54
225	90	175.62	166.23

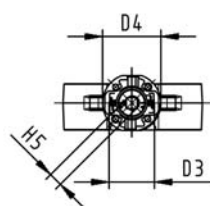
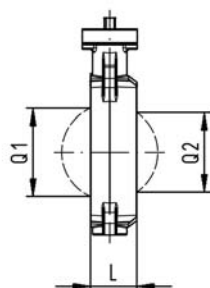
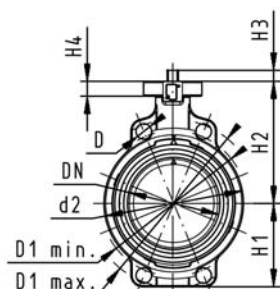
Butterfly valves SYGEF®

SYGEF® standard Butterfly valve type 567 PVDF Bare shaft



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Interface F07 according to DIN/ISO 5211



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

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]
63	19	120.0	125.0	104	85.0	90.0	222	77	134	12	23	11	45	35.74
75	19	139.7	145.0	115	85.0	90.0	235	83	140	12	23	11	46	50.93
90	19	150.0	160.0	131	85.0	90.0	247	89	146	12	23	11	49	64.01
110	19	175.0	190.5	161	85.0	90.0	287	104	167	16	23	14	56	84.46
140	23	210.0	215.9	187	85.0	90.0	313	117	181	16	23	14	64	110.71
160	24	241.3	241.3	215	85.0	90.0	335	130	189	16	23	17	72	136.08
225	23	290.0	295.0	267	85.0	90.0	387	158	210	19	23	17	73	175.62

d [mm]	Q2 [mm]
63	
75	30.62
90	46.24
110	69.96
140	94.50
160	121.54
225	166.23

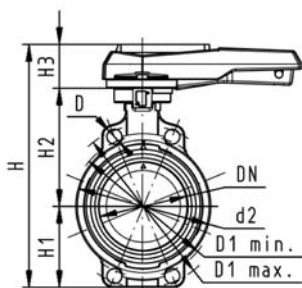


SYGEF® standard Butterfly valve type 567 PVDF Hand lever with ratchet settings

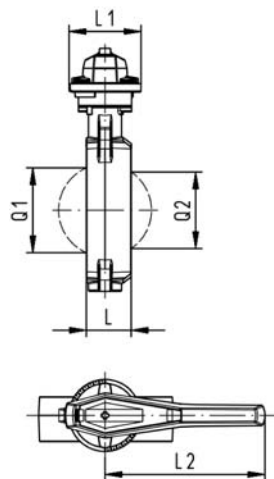


Model:

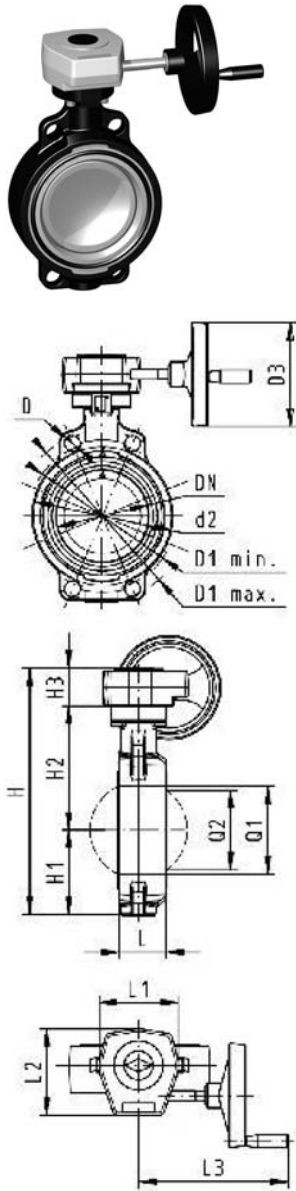
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752



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



d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	35.74	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	50.93	30.62
90	19	150.0	160.0	131	289	89	146	54	49	106	205	64.01	46.24
110	19	175.0	190.5	161	325	104	167	55	56	106	255	84.46	69.96
140	23	210.0	215.9	187	352	117	181	55	64	106	255	110.71	94.50
160	24	241.3	241.3	215	373	130	189	55	72	106	255	136.08	121.54
225	23	290.0	295.0	267	435	158	210	67	73	140	408	175.62	166.23



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



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752

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

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

d [mm]	Q1 [mm]	Q2 [mm]
63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
140	110.71	94.50
160	136.08	121.54
225	175.62	166.23

Butterfly valves electric SYGEF®

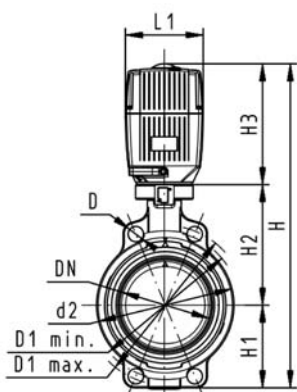
SYGEF® standard Butterfly valve type 140 24V Without manual override



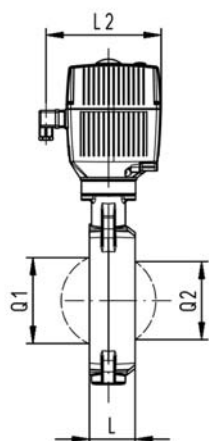
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 140 622
75	65	2 ½	10	2200	199 140 623
90	80	3	10	3000	199 140 624
110	100	4	10	6500	199 140 625
140	125	5	10	11500	199 140 626
160	150	6	10	16600	199 140 627
225	200	8	10	39600	199 140 628



d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-41	23	290.0	295.0	267	575	158	210	208	73	125	180



d [mm]	Q1 [mm]	Q2 [mm]
63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
140	110.71	94.50
160	136.08	121.54
225	175.62	166.23



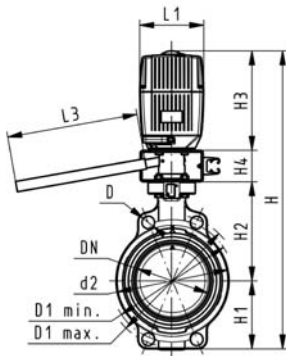
SYGEF® standard Butterfly valve type 140 24V With manual override



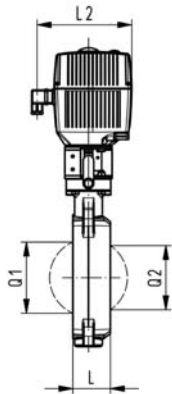
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 140 602
75	65	2 ½	10	2200	199 140 603
90	80	3	10	3000	199 140 604
110	100	4	10	6500	199 140 605
140	125	5	10	11500	199 140 606
160	150	6	10	16600	199 140 607
225	200	8	10	39600	199 140 608



d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-41	23	290.0	295.0	267	635	158	210	208	60	73	125	180



d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	200	35.74	
75	200	50.93	30.62
90	200	64.01	46.24
110	250	84.46	69.96
140	250	110.71	94.50
160	250	136.08	121.54
225	250	175.62	166.23

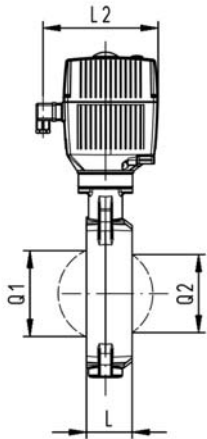
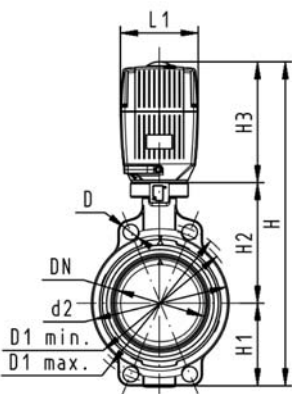


SYGEF® standard Butterfly valve type 140 100-230V Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 8s/90°<) EA41
- Control range 90°<)
- Actuator with integrated emergency manual override standard



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 140 582
75	65	2 ½	10	2200	199 140 583
90	80	3	10	3000	199 140 584
110	100	4	10	6500	199 140 585
140	125	5	10	11500	199 140 586
160	150	6	10	16600	199 140 587
225	200	8	10	39600	199 140 588

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180
225	EA-41	23	290.0	295.0	267	575	158	210	208	73	125	180

d [mm]	Q1 [mm]	Q2 [mm]
63	35.74	
75	50.93	30.62
90	64.01	46.24
110	84.46	69.96
140	110.71	94.50
160	136.08	121.54
225	175.62	166.23



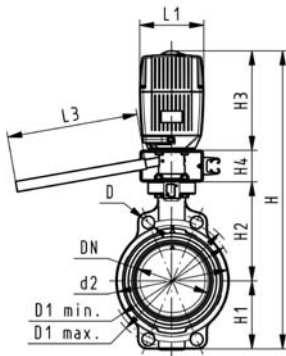
SYGEF® standard Butterfly valve type 140 100-230V With manual override



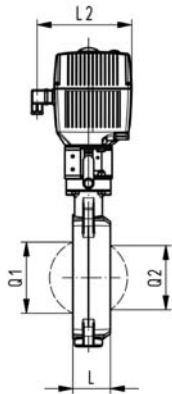
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90° (<) EA31
- Control time 8s/90° (<) EA41
- Control range 90° (<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 140 562
75	65	2 ½	10	2200	199 140 563
90	80	3	10	3000	199 140 564
110	100	4	10	6500	199 140 565
140	125	5	10	11500	199 140 566
160	150	6	10	16600	199 140 567
225	200	8	10	39600	199 140 568



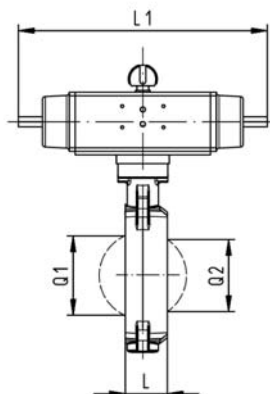
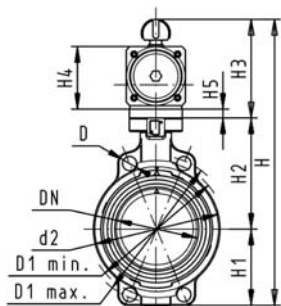
d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	L [mm]	L1 [mm]	L2 [mm]
63	EA-31	19	120.0	125.0	104	460	77	134	188	60	45	122	180
75	EA-31	19	139.7	145.0	115	473	83	140	188	60	46	122	180
90	EA-31	19	150.0	160.0	131	488	89	146	188	60	49	122	180
110	EA-31	19	175.0	190.5	161	520	104	167	188	60	56	122	180
140	EA-31	23	210.0	215.9	187	547	117	181	188	60	64	122	180
160	EA-31	24	241.3	241.3	215	568	130	189	188	60	72	122	180
225	EA-41	23	290.0	295.0	267	635	158	210	208	60	73	125	180



d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	200	35.74	
75	200	50.93	30.62
90	200	64.01	46.24
110	250	84.46	69.96
140	250	110.71	94.50
160	250	136.08	121.54
225	250	175.62	166.23

Butterfly valves pneumatic SYGEF®

SYGEF® standard Butterfly valve type 240 Function FC (Fail safe to close) Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90° <

d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 240 462
75	65	2 ½	10	2200	199 240 463
90	80	3	10	3000	199 240 464
110	100	4	10	6500	199 240 465
140	125	5	10	11500	199 240 466
160	150	6	10	16600	199 240 467
225	200	8	10	39600	199 240 468

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FC	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FC	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FC	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FC	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FC	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FC	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FC	23	290.0	295.0	267	529	158	210	161	118		73	452

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	35.74	
75	65	50.93	30.62
90	72	64.01	46.24
110	80	84.46	69.96
140	90	110.71	94.50
160	100	136.08	121.54
225	112	175.62	166.23

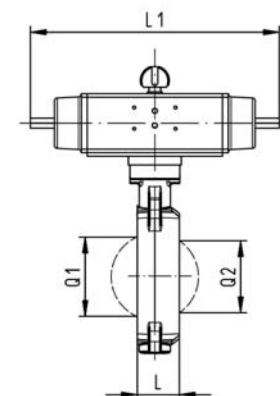
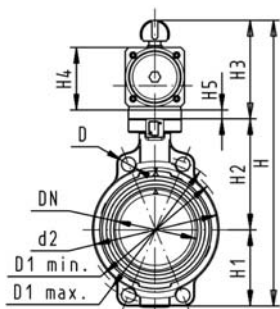


SYGEF® standard
Butterfly valve type 240
Function FO (Fail safe to open)
Without manual override



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90° <



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 240 482
75	65	2 ½	10	2200	199 240 483
90	80	3	10	3000	199 240 484
110	100	4	10	6500	199 240 485
140	125	5	10	11500	199 240 486
160	150	6	10	16600	199 240 487
225	200	8	10	39600	199 240 488

d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49	326
110	PA-40 FO	19	175.0	190.5	161	400	104	167	129	86		56	370
140	PA-45 FO	23	210.0	215.9	187	436	117	181	139	96		64	411
160	PA-50 FO	24	241.3	241.3	215	468	130	189	149	106		72	423
225	PA-55 FO	23	290.0	295.0	267	529	158	210	161	118		73	452

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	35.74	
75	65	50.93	30.62
90	72	64.01	46.24
110	80	84.46	69.96
140	90	110.71	94.50
160	100	136.08	121.54
225	112	175.62	166.23

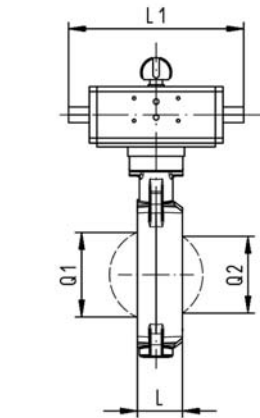
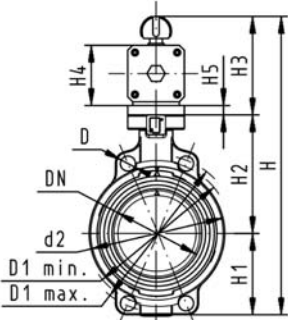


**SYGEF® standard
Butterfly valve type 240
Function DA (Double acting)
Without manual override**



Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI B 16.5 Class 150, BS 1560: 1958, JIS B 2220
- Overall length according to EN 558-1, ISO 5752
- Control range 90° <



d [mm]	DN [mm]	Inch	PN	kv-value ($\Delta p=1$ bar) [l/min]	FPM Code
63	50	2	10	1470	199 240 502
75	65	2 ½	10	2200	199 240 503
90	80	3	10	3000	199 240 504
110	100	4	10	6500	199 240 505
140	125	5	10	11500	199 240 506
160	150	6	10	16600	199 240 507
225	200	8	10	39600	199 240 508

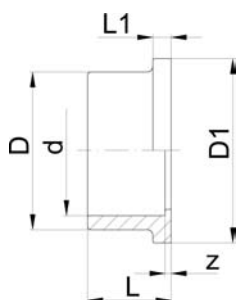
d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-35 DA	19	120.0	125.0	104	317	77	134	107	60	15	45	177
75	PA-35 DA	19	139.7	145.0	115	330	83	140	107	60	15	46	177
90	PA-40 DA	19	150.0	160.0	131	348	89	146	113	66	15	49	190
110	PA-45 DA	19	175.0	190.5	161	372	104	167	102	71		56	198
140	PA-45 DA	23	210.0	215.9	187	408	117	181	111	78		64	235
160	PA-55 DA	24	241.3	241.3	215	448	130	189	129	86		72	250
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	55	35.74	
75	55	50.93	30.62
90	60	64.01	46.24
110	65	84.46	69.96
140	72	110.71	94.50
160	80	136.08	121.54
225	90	175.62	166.23

Flange Adaptor

PVC-U

Flange adaptor PVC-U Jointing face flat metric



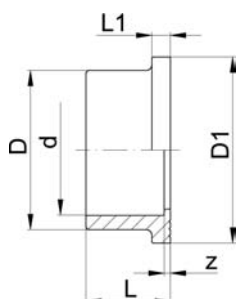
Model:

- Solvent cement socket metric
- Gasket: combined with flat gasket EPDM No. 48 40 01, FPM No. 49 40 01, with flange adaptor 721790117 and 721790120
- Flange: PVC-U No. 21 70 00, PP with steel ring No. 27 70 02, 27 70 03, backing flange PP-V for socket systems metric No. 27 70 04

d [mm]	DN [mm]	PN	Code	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
63	50	16	721 800 111	3	77	90.00	41	9
75	65	16	721 800 112	3	91	106.00	47	10
90	80	16	721 800 113	5	108	125.00	56	11
110	100	16	721 800 114	5	131	150.00	66	12
140	125	16	721 800 116	5	165	188.00	81	14
*160	150	16	721 790 117	5	188	213.00	91	16
*225	200	10	721 790 120	6	248	274.00	125	25

PVC-C

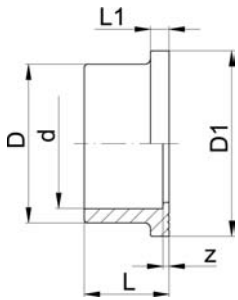
Flange adaptor PVC-C Jointing face serrated



Model:

- Solvent cement socket metric
- Gasket: combined with flat gasket EPDM No. 48 40 01, FPM No. 49 40 01, with flange adaptor 723790112, 723790113, 723790114 and 723790120
- Flange: PVC-U No. 21 70 00, PP with steel ring No. 27 70 02, 27 70 03, backing flange PP-V for socket systems metric No. 27 70 04

d [mm]	DN [mm]	PN	Code	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
75		16	723 790 112	3	91	106.00	47	10
90		16	723 790 113	5	108	125.00	56	11
110		16	723 790 114	5	131	150.00	66	12
160		16	723 790 117	5	188	213.00	91	16
225		10	723 790 120	6	248	274.00	125	25

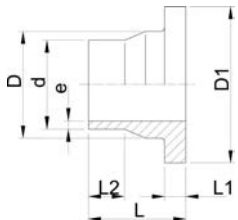


ABS Flange adaptor ABS metric Jointing face serrated

Model:

- Solvent cement socket metric
- Gasket: combined with flat gasket EPDM No. 48 40 01, FPM No. 49 40 01, with flange adaptor 729790113, 729790114 and 729790120
- Flange: PVC-U No. 21 70 00, PP with steel ring No. 27 70 02, 27 70 03, backing flange PP-V for socket systems metric No. 27 70 04

d [mm]	DN [mm]	PN	Code	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
90		10	729 790 113	5	108	125.00	56	11
110		10	729 790 114	5	131	150.00	66	12
160		10	729 790 117	5	188	213.00	91	16
225		10	729 790 120	6	248	274.00	125	25



PP-H Special flange adaptor PP-H S8,3/SDR17,6 Jointing face serrated

Model:

- Conventional butt fusion according to DVS2207
- In connection with +GF+ butterfly valves, no chamfers required
- Gasket: combined with flat gasket EPDM No. 48 40 01, FPM No. 49 40 01, with flange adaptor 727798842 and 727798845
- Flange: PP with steel ring No. 27 70 02, backing flange PP-V for socket systems metric No. 27 70 04

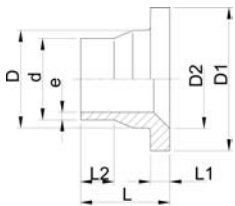
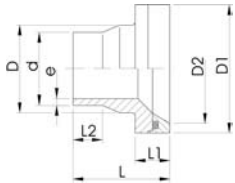
d [mm]	DN [mm]	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
63		727 798 536	75	102.00	50	14	18	3,6
75	65	727 798 537	89	122.00	50	16	14	4,3
90	80	727 798 538	105	138.00	80	17	43	5,1
110	100	727 798 539	125	158.00	80	18	37	6,3
140		727 798 541	155	188.00	80	18	34	8,0
160		727 798 842	175	212.00	92	18	41	9,1
225		727 798 845	235	268.00	100	24	44	12,8



PP-H Special flange adaptor PP-H S5/SDR11 Jointing face serrated

Model:

- Conventional butt fusion according to DVS2207
- In connection with +GF+ butterfly valves, no chamfers required
- Gasket: combined with flat gasket EPDM No. 48 40 01, FPM No. 49 40 01, with flange adaptor 727798817 and 727798820
- Flange: PP with steel ring No. 27 70 02, backing flange PP-V for socket systems metric No. 27 70 04



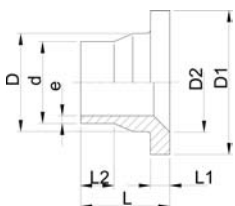
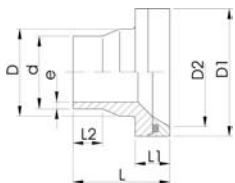
d [mm]	DN [mm]	Code	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
75		727 798 812	89	121.50	62.00	80	16	43	6,8
90		727 798 813	105	138.00	82.00	80	17	28	8,2
110		727 798 814	125	158.00	100.00	80	18	28	10,0
140		727 798 816	155	188.00	126.00	89	25	37	12,7
160		727 798 817	175	212.00	153.00	92	25	41	14,6
225		727 798 820	235	268.00	204.00	100	32	36	20,5



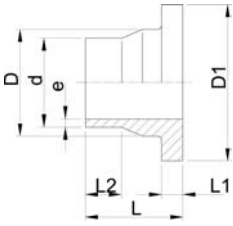
PP-H Special flange adaptor PE100 S5/SDR11 Jointing face serrated

Model:

- Conventional butt fusion according to DVS2207
- In connection with +GF+ butterfly valves, no chamfers required
- Gasket: combined with flat gasket EPDM No. 48 40 01, FPM No. 49 40 01, with flange adaptor 753798817 and 753798820
- Flange: PP with steel ring No. 27 70 02, backing flange PP-V for socket systems metric No. 27 70 04



d [mm]	DN [mm]	Code	D [mm]	D1 [mm]	D2 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
75		753 798 812	89	122.00	62.00	80	16	27	6,8
90		753 798 813	105	138.00	82.00	80	17	28	8,2
110		753 798 814	125	158.00	100.00	80	18	28	10,0
140		753 798 816	155	188.00	126.00	89	25	37	12,7
160		753 798 817	175	212.00	153.00	92	25	40	14,6
225		753 798 820	235	268.00	204.00	100	32	28	20,5



PP-H Special flange adaptor PE100 S8,3/SDR17,6 Jointing face serrated

Model:

- Conventional butt fusion according to DVS2207
- In connection with +GF+ butterfly valves, no chamfers required
- Gasket: combined with flat gasket EPDM No. 48 40 01, FPM No. 49 40 01, with flange adaptor 753798842 and 753798845
- Flange: PP with steel ring No. 27 70 02, backing flange PP-V for socket systems metric No. 27 70 04

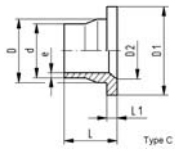
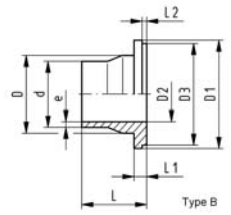
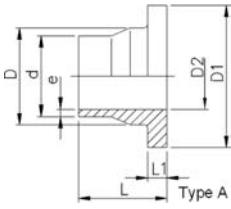
d [mm]	DN [mm]	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]	
75	65	753 798 537							
90	80	753 798 538							
110	100	753 798 539							
140		753 798 541	155	188.00	80	18	34	8,0	
*160		753 798 542	175	212.00	92	18	47	9,1	
*225		753 798 545	235	268.00	100	24	47	12,8	



SYGEF® standard Flange adaptor PVDF Jointing face serrated

Model:

- In connection with +GF+ butterfly valves, no chamfers required
- Gasket: combined with flat gasket FPM No. 49 40 01, with flange adaptor 735798812, 735798813, 735798816 735798817 and 735798820
- Flange: PP with steel ring No. 27 70 02, backing flange PP-V for socket systems metric No. 27 70 04



d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	Type
63		16	735 798 811	75	102.00	56.00		3.0	72	9		A
75		16	735 798 812	89	122.00	66.00		3.6	80	10		A
90		16	735 798 813	105	138.00	78.00	133.0	4.3	81	12	4	B
110		16	735 798 814	125	158.00	100.00		5.3	81	13		C
140		16	735 798 816	155	188.00	127.00		6.7	90	16		C
160		16	735 798 817	175	212.00	151.00		7.7	93	17		C
225		16	735 798 820	235	268.00	203.00		10.8	102	22		C

Flange

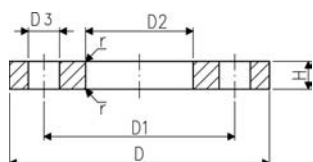
21 70 00

Backing flange PVC-U metric

Model:

- For socket systems
- Connecting dimension: ISO 7005 PN10, EN 1092 PN 10, DIN 2501 PN10

* Connecting dimension: ISO 2536



d [mm]	DN [mm]	Inch	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	r [mm]	AL	SC
63	50	2	10	721 700 011	165	125.00	78.00	18.0	18	3	4	M16
75	65	2 ½	10	721 700 012	185	145.00	92.00	18.0	19	3	4	M16
90	80	3	10	721 700 013	200	160.00	110.00	18.0	20	3	8	M16
110	100	4	10	721 700 014	220	180.00	133.00	18.0	22	3	8	M16
140	125	5	10	721 700 016	250	210.00	167.00	18.0	26	4	8	M16
160	150	6	10	721 700 017	285	240.00	190.00	22.0	28	4	8	M20
225	200	8	10	721 700 020	340	295.00	250.00	22.0	32	4	8	M20

27 70 04

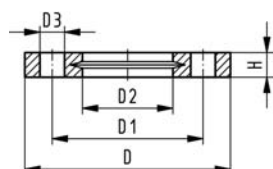
27 70 05

Backing flange PP-V For socket systems metric

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt retainers as an assembly aid
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10

1) Suitable for socket- and butt fusion systems (no pictograph on flange)



d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
63	50	16	727 700 411	165	125.00	78.00	18.0	24	4	M16
75	65	16	727 700 412	185	145.00	92.00	18.0	26	4	M16
90	80	16	727 700 413	200	160.00	110.00	18.0	27	8	M16
110	100	16	727 700 414	220	180.00	133.00	18.0	28	8	M16
140	125	16	727 700 416	250	210.00	167.00	18.0	30	8	M16
160	150	16	727 700 417	285	241.00	190.00	22.0	32	8	M20
225	200	16	727 700 420	340	295.00	250.00	22.0	34	8	M20

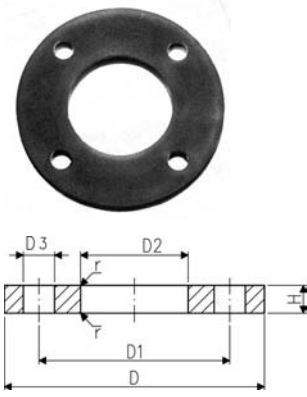
21 70 22

Backing flange PVC-U Inch ASTM / ANSI

Model:

- For socket systems
- For Flange Adaptors BS (ANSI)
- Connecting dimension: ANSI B 16.5 class 150 (ASTM D 4024), BS EN 1759

* Only for use with metric flange adaptors



d [mm]	DN [mm]	Inch	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	r [mm]	AL
*110	50	2	10	721 702 211	165	121.00	78.00	19.0	18	3	4
	65	2 1/2	10	721 702 212	185	140.00	92.00	19.0	19	3	4
	80	3	10	721 702 213	200	152.00	110.00	19.0	20	3	4
	100	4	10	721 702 214	220	190.00	138.00	19.0	22	3	8
	100	4	10	161 483 180	220	190.00	133.00	19.0	22	3	8
*160	125	5	10	721 702 216	250	216.00	167.00	22.0	26	4	8
	150	6	10	721 702 217	285	241.00	200.00	22.0	28	4	8
	150	6	10	161 483 181	285	241.00	190.00	22.0	28	4	8
200	8	10	721 702 220	340	298.00	250.00	22.0	32	4	8	

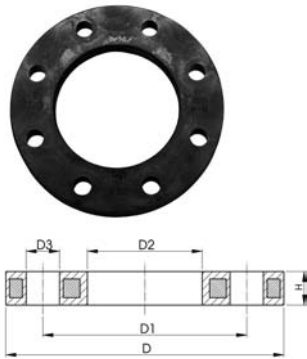
27 70 02

Backing flange PP/Steel For socket systems metric

Model:

- PP-GF (30% glass-fibre reinforced) with steel ring
- Connecting dimensions: ISO 7005, EN 1092, DIN 2501; bolt circle PN 10

* Connecting dimension: ISO 2536



d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
63	50	16	727 700 211	165	125.00	78.00	18.0	18	4	M16
75	65	16	727 700 212	185	145.00	92.00	18.0	18	4	M16
90	80	16	727 700 213	200	160.00	110.00	18.0	20	8	M16
110	100	16	727 700 214	220	180.00	133.00	18.0	20	8	M16
140	125	16	727 700 216	250	210.00	167.00	18.0	24	8	M16
160	150	16	727 700 217	285	240.00	190.00	22.0	24	8	M20
225	200	16	727 700 220	340	295.00	250.00	22.0	27	8	M20

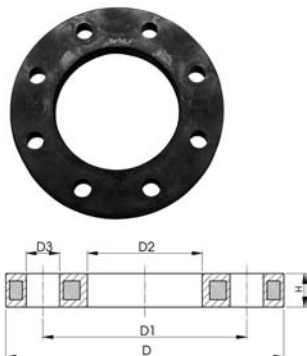
27 70 12

Backing flange PP/Steel For socket systems Inch/ANSI

Model:

- For socket systems
- For Flange Adaptors BS (ANSI)
- Material: PP (30 % glass-fibre reinforced) with steel ring
- Connecting dimension ANSI B 16.5 / ASTM D 4024

• DN100 and DN150: only for use with original metric flange adaptors



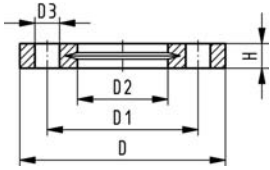
d [mm]	DN [mm]	Inch	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL
63	50	2	16	727 701 211	165	121.00	78.00	19.0	18	4
75	65	2 1/2	16	727 701 212	185	140.00	92.00	19.0	18	4
90	80	3	16	727 701 213	200	152.00	110.00	19.0	20	4
110	100	4	16	727 701 214	229	190.00	133.00	19.0	20	8
200	150	6	16	727 701 217	285	241.00	190.00	22.0	24	8
225	200	8	16	727 701 220	340	298.00	250.00	22.0	27	8

27 70 14
27 70 15

Backing flange PP-V For socket systems Inch/ANSI

Model:

- Modern full-plastic flange PP-GF (30 % glass-fibre reinforced)
- With V-groove which applies force evenly on collar
- With integrated bolt-fixing as an assembly aid
- Connection dimensions according to ANSI B 16.5, ASTM D 4024; bolt circle class 150



1) Suitable for socket- and butt fusion systems (no pictograph on flange)

d [mm]	DN [mm]	Inch	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC	
	50	2	16	727 701 411	165	121.00	78.00	19.0	24	4	M16	
	65	2 1/2	16	727 701 412	185	140.00	92.00	19.0	26	4	M16	
	80	3	16	727 701 413	200	152.00	110.00	19.0	27	4	M16	
110	100	4	16	727 701 414	229	190.00	133.00	19.0	28	8	M16	
160	150		16	727 700 417	285	241.00	190.00	22.0	32	8	M20	
225	200		16	727 700 420	340	295.00	250.00	22.0	34	8	M20	

Seals

EPDM 48 40 00
FPM 49 40 00

Flat gasket

Model:

- For Flange Adaptors 21 79 01/21 80 01
- Hardness: 70° Shore **EPDM**, 75° Shore **FPM**



d [mm]	DN [mm]	Inch	PN	EPDM Code	FPM Code	D [mm]	D1 [mm]	H [mm]	
63	50	2	10	748 400 020	749 400 020	88	63.00	3	
75	65	2 ½	10	748 400 021	749 400 021	104	75.00	3	
90	80	3	10	748 400 022	749 400 022	123	90.00	3	
110	100	4	10	748 400 023	749 400 023	148	110.00	4	
140	125	5	10	748 400 025	749 400 025	186	140.00	4	
160	150	6	10	748 400 026	749 400 026	211	160.00	4	
225	200	8	6	748 400 027	749 400 027	272	220.00	5	

Integrated Position Indicator

Integrated position indicator Automatic AU



Size	DN-DN [mm]	d [mm]	Code	
1	50 - 80		161 486 858	
2	100 - 125		161 486 304	
3	150 - 200		161 486 009	

Integrated position indicator Automatic AG NI



Size	DN-DN [mm]	Code	
1	50 - 80	161 486 859	
2	100 - 125	161 486 305	
3	150 - 200	161 486 010	

Integrated position indicator Electric Namur



Size	DN-DN [mm]	Code	
1	50 - 80	161 486 855	
2	100 - 125	161 486 301	
3	150 - 200	161 486 006	

Integrated position indicator Electric PNP



Size	DN-DN [mm]	Code	
1	50 - 80	161 486 856	
2	100 - 125	161 486 302	
3	150 - 200	161 486 007	

Integrated position indicator Electric NPN



Size	DN-DN [mm]	Code	
1	50 - 80	161 486 857	
2	100 - 125	161 486 303	
3	150 - 200	161 486 008	

Spare Parts

PVC-U

Bearing bushes to type 567/568 Assembled with o-ring



d-d [mm]	DN-DN [mm]	EPDM Code	FPM Code
63 - 90	50 - 80	161 486 886	161 486 892
110 - 140	100 - 125	161 486 887	161 486 893
160 - 225	150 - 200	161 486 888	161 486 894



PVC-U

Inner body to type 567/568 Assembled with profile seal

d [mm]	DN [mm]	EPDM Code	FPM Code
63	50	161 486 861	161 486 873
75	65	161 486 862	161 486 874
90	80	161 486 863	161 486 875
110	100	161 486 864	161 486 876
140	125	161 486 865	161 486 877
160	150	161 486 866	161 486 878
225	200	161 486 867	161 486 879



PVC-U

Disc to type 567/568

d [mm]	DN [mm]	Code
63	50	161 490 889
75	65	161 490 890
90	80	161 490 891
110	100	161 490 892
140	125	161 490 893
160	150	161 490 894
225	200	161 490 895



PVC-C
Bearing bushes to type 567/568
Assembled with o-ring

d-d [mm]	DN-DN [mm]	EPDM Code	FPM Code	
63 - 90	50 - 80	163 481 576	163 481 582	
110 - 140	100 - 125	163 481 577	163 481 583	
160 - 225	150 - 200	163 481 578	163 481 584	



PVC-C
Inner body to type 567/568
Assembled with profile seal

- * Available on request

d [mm]	DN [mm]	EPDM Code	FPM Code	
*63	50	163 481 591	163 481 603	
75	65	163 481 592	163 481 604	
90	80	163 481 593	163 481 605	
110	100	163 481 594	163 481 606	
*140	125	163 481 595	163 481 607	
160	150	163 481 596	163 481 608	
225	200	163 481 597	163 481 609	



PVC-C
Disc to type 567/568

- * Available on request

d [mm]	DN [mm]	Code	
*63	50	163 481 451	
75	65	163 481 452	
90	80	163 481 453	
110	100	163 481 454	
*140	125	163 481 455	
160	150	163 481 456	
225	200	163 481 457	



ABS
Inner body to type 567/568
Assembled with profile seal

- * Available on request

d [mm]	DN [mm]	EPDM Code	FPM Code	
*63	50	169 481 067	169 481 079	
*75	65	169 481 068	169 481 080	
90	80	169 481 069	169 481 081	
110	100	169 481 070	169 481 082	
*140	125	169 481 071	169 481 083	
160	150	169 481 072	169 481 084	
225	200	169 481 073	169 481 085	



ABS
Disc to type 567/568

- * Available on request

d [mm]	DN [mm]	Code	
*63	50	169 480 951	
*75	65	169 480 952	
90	80	169 480 953	
110	100	169 480 954	
*140	125	169 480 955	
160	150	169 480 956	
225	200	169 480 957	



PP-H
Bearing bushes to type 567/568
Assembled with o-ring

d-d [mm]	DN-DN [mm]	EPDM Code	FPM Code	
63 - 90	50 - 80	167 484 259	167 484 265	
110 - 140	100 - 125	167 484 260	167 484 266	
160 - 225	150 - 200	167 484 261	167 484 267	





PP-H
Inner body to type 567/568
Assembled with profile seal

d [mm]	DN [mm]	EPDM Code	FPM Code
63	50	167 484 271	167 484 286
75	65	167 484 272	167 484 287
90	80	167 484 273	167 484 288
110	100	167 484 274	167 484 289
140	125	167 484 275	167 484 290
160	150	167 484 276	167 484 291
225	200	167 484 277	167 484 292



PP-H
Disc to type 567/568

d [mm]	DN [mm]	Code
63	50	167 483 226
75	65	167 483 227
90	80	167 483 228
110	100	167 483 229
140	125	167 483 230
160	150	167 483 231
225	200	167 483 232



SYGEF® standard
Bearing bushes to type 567/568
Assembled with o-ring

d-d [mm]	DN-DN [mm]	FPM Code
63 - 90	50 - 80	175 483 426
110 - 140	100 - 125	175 483 427
160 - 225	150 - 200	175 483 428





SYGEF® standard
Inner body to type 567/568
Assembled with profile seal

d [mm]	DN [mm]	FPM Code	
63	50	175 483 413	
75	65	175 483 414	
90	80	175 483 415	
110	100	175 483 416	
140	125	175 483 417	
160	150	175 483 418	
225	200	175 483 419	



SYGEF® standard
Disc to type 567/568

d [mm]	DN [mm]	Code	
63	50	175 483 251	
75	65	175 483 252	
90	80	175 483 253	
110	100	175 483 254	
140	125	175 483 255	
160	150	175 483 256	
225	200	175 483 257	



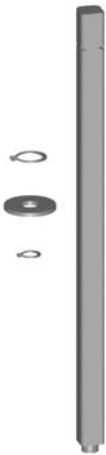
Hand lever with index plate to type 567/568

Size	DN-DN [mm]	Code	
1	50 - 80	161 486 690	
2	100 - 125	161 486 691	
2	- 150	161 486 694	
3	- 200	161 486 695	



Hand lever with fine adjustment to type 567/568

Size	DN-DN [mm]	Code	
1	50 - 80	161 486 325	
2	100 - 125	161 486 326	
2	- 150	161 486 327	
3	- 200	161 486 328	



Shaft set to type 567/568
Chrom steel 1.4301 AISI 304
With retention ring and washer

d [mm]	DN [mm]	Code	
63	50	161 486 899	
75	65	161 486 900	
90	80	161 486 901	
110	100	161 486 902	
140	125	161 486 903	
160	150	161 486 904	
225	200	161 486 905	



End stop to type 567/568
PP glasfiber reinforced

DN-DN [mm]	Code	
50 - 80	167 483 251	
100 - 125	167 483 252	
150 - 200	167 483 253	

O-ring flange connection to type 567 / 568
Each with 2 pieces

d [mm]	DN [mm]	EPDM Code	FPM Code	
63	50	748 410 024	749 410 024	
75	65	748 410 058	749 410 058	
90	80	748 410 048	749 410 048	
110	100	748 410 016	749 410 016	
140	125	748 410 185	749 410 185	
160	150	748 410 073	749 410 073	
225	200	748 410 068	749 410 068	

Electric actuators

Actuator unit electric type EA 31



Voltage	Code	
100-230 V~ 24 V=/ ~	198 150 184 198 150 185	

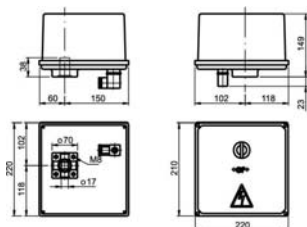


Actuator unit electric type EA 42

Voltage	Code	
100-230 V~ 24 V=/ ~	198 150 186 198 150 187	



Actuator unit electric type EA 41



Voltage	Standard Code	Special IP 66 Code	
115/230 V, 50-60 Hz 24 V=/ 24 V, 50-60 Hz 48 V, 50-60 Hz	198 150 470 198 150 471 198 150 469	198 150 307 198 150 306 -	

Accessories for electric actuators



For actuator units electric
Type EA 11/ EA 21/ EA 31/ EA 42
Fail safe return incl. battery kit

Voltage	Code	
24 V=	199 190 085	



For actuator units electric
Type EA 11/ EA 21/ EA 31/ EA 42
Heating element + fail safe return incl. battery kit

Voltage	Code	
24 V=	199 190 087	



For actuator units electric
Type EA 11/ EA 21/ EA 31/ EA 42
Limit switch kit with mechanical limit switches AgNi

Voltage	Code	
250 V ~6 A	199 190 092	



For actuator units electric
Type EA 21/ EA 31/ EA 42
Monitoring print

Code	
199 190 079	



For actuator units electric
Type EA 21/ EA 31/ EA 42
Cycle time module

Code	
199 190 080	



For actuator units electric
Type EA 21/ EA 31/ EA 42
Running time control

Code	
199 190 082	



**For actuator units electric
Type EA 21/ EA 31/ EA 42
Cycle monitoring**

Code	
199 190 083	



**For actuator units electric
Type EA 21/ EA 31/ EA 42
Motor current monitoring**

Code	
199 190 081	



**For actuator units electric
Type EA 21/ EA 31/ EA 42
Position signalization**

Code	
199 190 084	



**For actuator units electric
Type EA 21/ EA 31/ EA 42
Controller PE25**

Voltage	Code	
24 V=	199 190 088	



**For actuator units electric
Type EA 21/ EA 31/ EA 42
Limit switch kit with gold contacts Au**

Voltage	Code	
250 V ~ 6 A	199 190 093	

Pneumatic rotary actuators PA



Actuator unit pneumatic type PA 30 PA 90 Fail safe to close / Fail safe to open (FC/FO)

- Nickel plated
- Epoxy plated

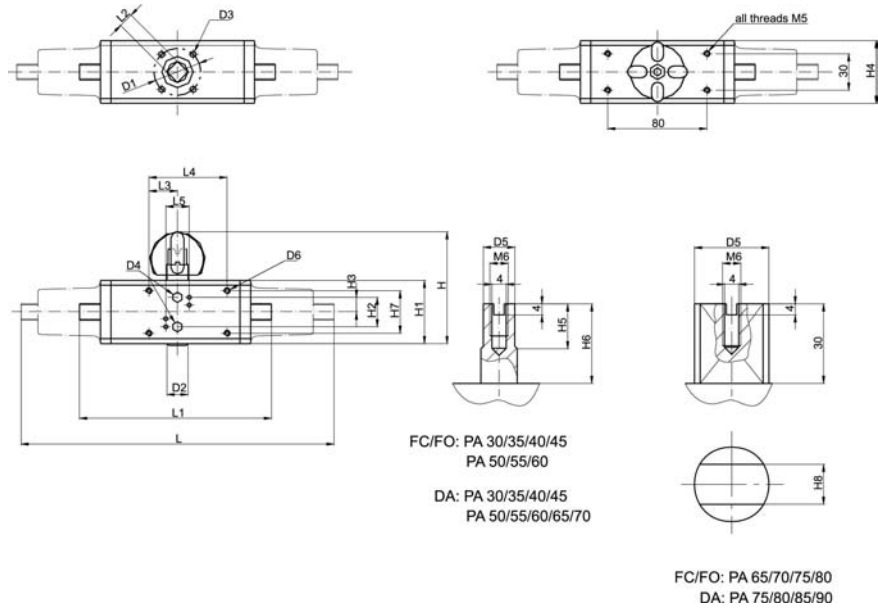
Other versions one request

Type	hard anodized Code	nickel plated Code	hard anodized with stroke limiter Code	Only for Butterfly valve type 240 Code
PA 30 FO	198 800 757	198 800 034	-	-
PA 35 FC/FO	-	-	-	198 811 025
PA 35 FO	198 800 037	198 800 052	-	-
	-	-	-	198 811 026
	198 800 728	198 800 004	198 800 017	-
PA 40 FO	-	-	-	198 811 027
	198 800 039	198 800 054	-	-
PA 45 FO	-	-	-	198 811 028
	198 800 729	198 800 005	198 800 018	-
PA 50 FO	-	-	-	198 811 029
	198 800 041	198 800 056	-	-
PA 55 FO	-	-	-	198 811 030
	198 800 730	198 800 006	198 800 019	-
	198 800 043	198 800 058	-	-
	198 800 731	198 800 007	198 800 020	-
	198 800 045	198 800 060	-	-
	198 800 047	198 800 062	-	-

Type		D1 [mm]	D2 [mm]	D3[M] [mm]	D4 [inch]	D5 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]
PA 30 FO	F04	42.00	30.00	M5x9	1/8	10	276	11	35	70		102
PA 35 FC/FO	F05	50.00	35.00	M6x11	1/8	12	326	14	35	70		111
PA 35 FO	F05	50.00	35.00	M6x11	1/8	12	370	14	35	70		129
PA 40 FO	F07	70.00	55.00	M8x15	1/8	15	411	17	35	70		139
PA 45 FO	F07	70.00	55.00	M8x15	1/8	15	423	17	35	70		149
PA 50 FO	F10	102.00	70.00	M10x17	1/8	19	452	22	35	70		161
PA 55 FO	F10	102.00	70.00	M10x17	1/8	19	503	22	35	70		173
	F12	125.00	85.00	M12x21	1/4		648	27			32	191
	F12	125.00	85.00	M12x21	1/4		663	27			32	196
	F14	140.00	100.00	M16x25	1/4		824	36			32	229
	F14	140.00	100.00	M16x25	1/4		918	36			32	241

Type	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]
PA 30 FO	70	21	18	65	13	20	36	
PA 35 FC/FO	78	21	18	72	13	20	36	
PA 35 FO	86	25	21	80	13	30	36	
PA 40 FO	96	25	21	90	16	30	36	
PA 45 FO	106	25	26	100	17	30	36	

Type	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]
PA 50 FO	118	25	25	112	19	30	36	
PA 55 FO	130	25	32	124	19	30	36	22
	148	24	34	137				24
	153	24	38	145				27
	186	24	43	166				32
	198	24	44	180				



Actuator unit pneumatic type PA 30 PA 90 Double acting (DA)

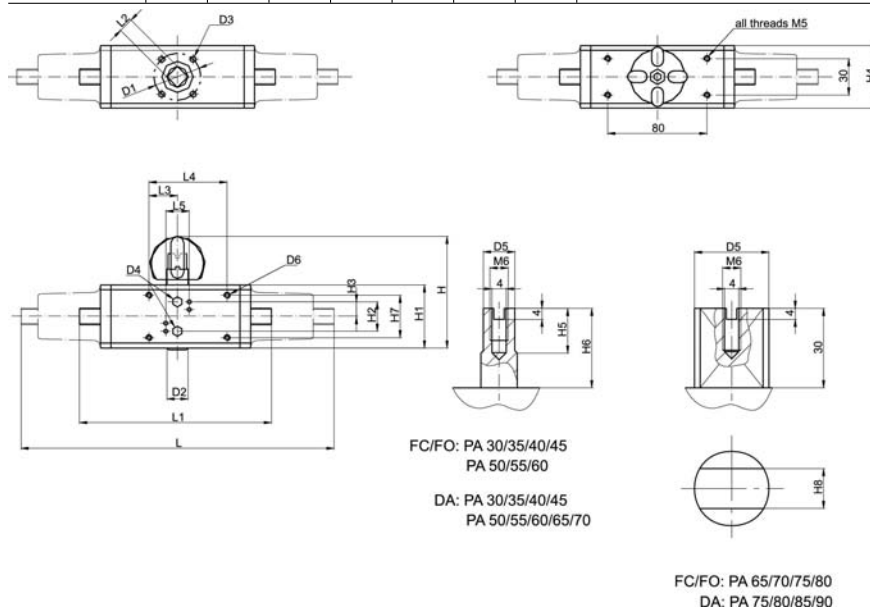
- Nickel plated
- Epoxy plated

Other versions one request

Type	hard anodized Code
PA 30 DA	198 800 737
PA 35 DA	198 800 758
PA 40 DA	198 800 732
PA 45 DA	198 800 040
PA 50 DA	198 800 733
PA 55 DA	198 800 042
PA 60 DA	198 800 734
PA 65 DA	198 800 044
PA 70 DA	198 800 735
PA 75 DA	198 800 046
PA 80 DA	198 800 048
PA 85 DA	198 800 050
PA 90 DA	198 800 051

Type		D1 [mm]	D2 [mm]	D3[M] [mm]	D4 [inch]	D5 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]
PA 30 DA	F03	36.00	25.00	M5x9	1/8	9	177	9	35	70		92	60
PA 35 DA	F04	42.00	30.00	M5x9	1/8	10	190	11	35	70		98	66
PA 40 DA	F04	42.00	30.00	M5x9	1/8	10	198	11	35	70		102	70
PA 45 DA	F05	50.00	35.00	M6x11	1/8	12	235	14	35	70		111	78
PA 50 DA	F05	50.00	35.00	M6x11	1/8	12	250	14	35	70		129	86
PA 55 DA	F07	70.00	55.00	M8x15	1/8	15	279	17	35	70		139	96
PA 60 DA	F07	70.00	55.00	M8x15	1/8	15	341	17	35	70		149	106
PA 65 DA	F10	102.00	70.00	M10x17	1/8	19	350	22	35	70		161	118
PA 70 DA	F10	102.00	70.00	M10x17	1/8	19	381	22	35	70		173	130
PA 75 DA	F12	125.00	85.00	M12x21	1/4		416	27			32	191	148
PA 80 DA	F12	125.00	85.00	M12x21	1/4		466	27			32	197	153
PA 85 DA	F14	140.00	100.00	M16x25	1/4		555	36			32	229	186
PA 90 DA	F14	140.00	100.00	M16x25	1/4		581	36			32	241	198

Type	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]
PA 30 DA	25	12	55	10	20	36	
PA 35 DA	25	13	60	13	20	36	
PA 40 DA	21	18	65	13	20	36	
PA 45 DA	21	18	72	13	20	36	
PA 50 DA	25	21	80	13	30	36	
PA 55 DA	25	21	90	16	30	36	
PA 60 DA	25	26	100	17	30	36	
PA 65 DA	25	25	112	19	30	36	
PA 70 DA	25	32	124	19	30	36	
PA 75 DA	24	34	137				22
PA 80 DA	24	38	145				24
PA 85 DA	24	43	166				27
PA 90 DA	24	44	180				32



Position indicator



For actuator units pneumatic type PA 11 - PA 90
Namur connecting plate

- PA30 - PA55

Code	
199 190 275	



For actuator units pneumatic type PA 11 - PA 90
Namur mounting flange

No	Code	
3	199 190 281	



For actuator units pneumatic type PA 11 - PA 90
Namur mounting flange

No	Code	
3	199 190 281	



For actuator units pneumatic type PA 11 - PA 90
Limit switch box with 2 auxiliary switches

- Including namur mounting flange

Voltage	Code	
250 V ~/10 A	199 190 282	



For actuator units pneumatic type PA 11 - PA 90
Limit switch box with 2 inductive auxiliary switches
NPN with luminous diode

- Including namur mounting flange

Voltage	Code	
10...30 V/ 0.1 A	199 190 283	



For actuator units pneumatic type PA 11 - PA 90
Limit switch box with 2 inductive auxiliary switches PNP
With luminous diode

- Including namur mounting flange

Voltage	Code	
10...30 V/ 0.1 A	199 190 284	



**For actuator units pneumatic type PA 11 - PA 90
Limit switch box with 2 inductive auxiliary switches
Namur Eexi (intrinsically safe)**

- Including namur mounting flange

Voltage	Code	
5-15 V	199 190 285	



**For actuator units pneumatic type PA 11 - PA 90
Limit switch box with 2 auxiliary switches Eexd**

- Including namur mounting flange

Voltage	Code	
250 V ~/5 A	199 190 286	



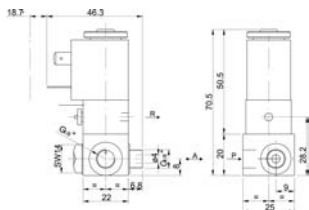
**For actuator units pneumatic type PA 11 - PA 90
Limit switch box with 2 auxiliary switches
With gold contact**

- Including namur mounting flange

Voltage	Code	
30 V =/ 1-100 mA	199 190 287	

Pilot valves

Pilot valve type PV 93 (Direct mounting) Pilot valve 3/2 ways

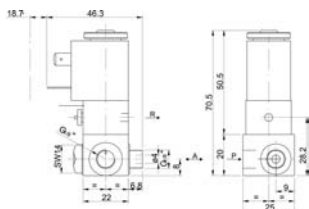


Model:

- For direct installation (incl. base plate and hollow screw)
- **to pneumatic actuators FC/FO (Single acting)**
- Circuit function C: de-energised closed
- Valve material: polyamid/brass
- Electric connection with cable plug

Voltage	DN [mm]	NBR Code	
200/230 V, 50-60 Hz	2	199 190 263	
100/115 V, 50-60 Hz	2	199 190 264	
24 V=	2	199 190 265	
24 V, 50-60 Hz	2	199 190 266	
48 V =	2	199 190 330	
48 V, 50-60 Hz	2	199 190 322	

Pilot valve type PV 93 (Direct mounting) Pilot valve 3/2 ways for AS-Interface



- **to pneumatic actuators FC/FO (Single acting)**
- Circuit function C: de-energised closed
- Valve material: polyamid/brass
- Electric connection with cable plug

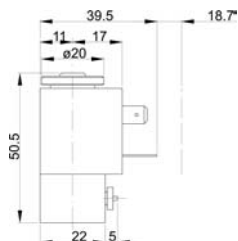
Voltage	PN	DN [mm]	NBR Code	
24 V=, 2 Watt	3.5-6	2	199 190 478	



Pilot valve type PV 93 (For mounting on multiple manifold) Pilot valve 3/2 ways

Model:

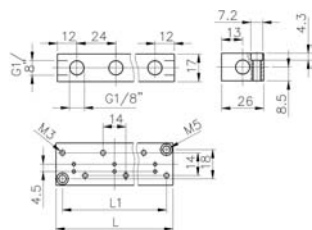
- For mounting onto multiple manifolds
- to pneumatic actuators FC/FO (Single acting)
- Circuit function C: de-energised closed
- Valve material: polyamid/brass
- Electrical connection: cable plug



Voltage	DN [mm]	NBR Code
200/230 V, 50-60 Hz	2	199 190 267
100/115 V, 50-60 Hz	2	199 190 268
24 V=	2	199 190 269
24 V, 50-60 Hz	2	199 190 270
48 V=	2	199 190 331
48 V, 50-60 Hz	2	199 190 323



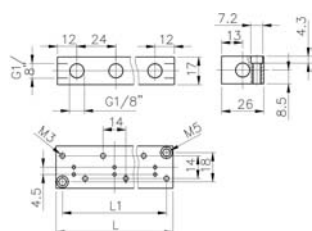
Accessories to type PV 93 Multiple manifold for 2 valves



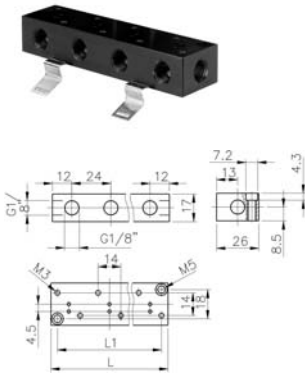
Code	L [mm]	L1 [mm]
199 190 487	48	39



Accessories to type PV 93 Multiple manifold for 4 valves

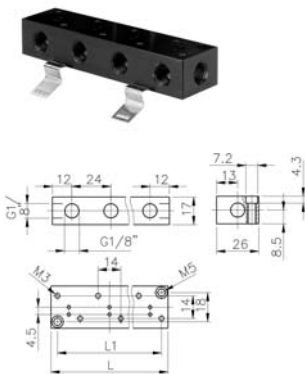


Code	L [mm]	L1 [mm]
199 190 271	96	87



Accessories to type PV 93 Multiple manifold for 6 valves

Code	L [mm]	L1 [mm]
199 190 272	144	135



Accessories to type PV 93 Multiple manifold for 8 valves

Code	L [mm]	L1 [mm]
199 190 273	192	183

Accessories to type PV 93 Blank plate for multiple manifold

- With one O-Ring and two screws

Code
199 190 274

Accessories to type PV 93 Cable plug with LED and VDR

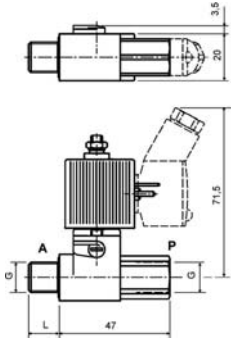
Voltage	Code
220 V AC/DC	198 806 122
110 V AC/DC	198 806 121
24 V AC/DC	198 806 123



Accessory pilot valve type PV 94 Pilot valve 3/2 ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/8
- Port A actuator connection G 1/8
- Without connector plug
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass
- Electric connection with cable plug



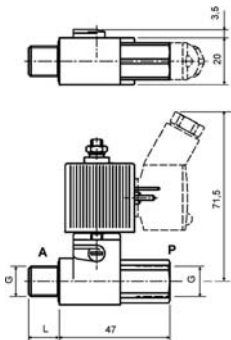
Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.2	G 1/8	G 1/8	10	48	199 190 498	
24 V, 50-60 Hz	1.2	G 1/8	G 1/8	10	48	199 190 499	
110 V, 50-60 Hz	1.2	G 1/8	G 1/8	10	48	199 190 500	
230 V, 50-60 Hz	1.2	G 1/8	G 1/8	10	48	199 190 501	



Accessory pilot valve type PV 94 Pilot valve 3/2 ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/8
- Without connector plug
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass
- Electric connection with cable plug



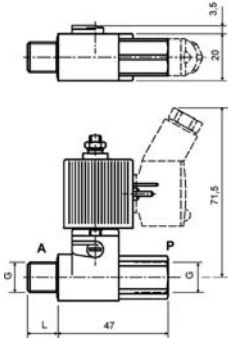
Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.2	G 1/4	G 1/8	10	48	199 190 502	
24 V, 50-60 Hz	1.2	G 1/4	G 1/8	10	48	199 190 503	
110 V, 50-60 Hz	1.2	G 1/4	G 1/8	10	48	199 190 504	
230 V, 50-60 Hz	1.2	G 1/4	G 1/8	10	48	199 190 505	



Accessory pilot valve type PV 94 Pilot valve 3/2 ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/4
- Without connector plug
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass
- Electric connection with cable plug



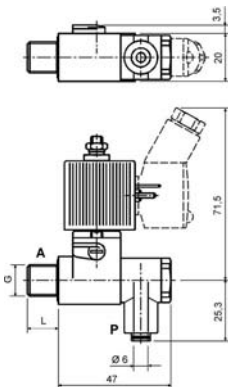
Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.2	G 1/4	G 1/4	10	48	199 190 506	
24 V, 50-60 Hz	1.2	G 1/4	G 1/4	10	48	199 190 507	
110 V, 50-60 Hz	1.2	G 1/4	G 1/4	10	48	199 190 508	
230 V, 50-60 Hz	1.2	G 1/4	G 1/4	10	48	199 190 509	



Accessory pilot valve type PV 94 Pilot valve 3/2 ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection tube push-in 6mm
- Port A actuator connection G 1/8
- Without connector plug
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass
- Electric connection with cable plug



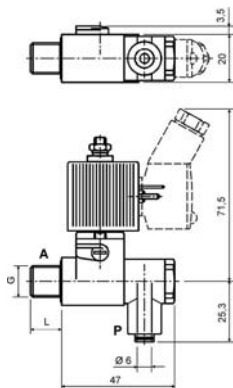
Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.2	push-in	G 1/8	10	48	199 190 510	
24 V, 50-60 Hz	1.2	push-in	G 1/8	10	48	199 190 511	
110 V, 50-60 Hz	1.2	push-in	G 1/8	10	48	199 190 512	
230 V, 50-60 Hz	1.2	push-in	G 1/8	10	48	199 190 513	



Accessory pilot valve type PV 94 Pilot valve 3/2 ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection tube push-in 6mm
- Port A actuator connection G 1/4
- Without connector plug
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass
- Electric connection with cable plug



Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code
24 V=	1.2	push-in	G 1/4	10	48	199 190 514
24 V, 50-60 Hz	1.2	push-in	G 1/4	10	48	199 190 515
110 V, 50-60 Hz	1.2	push-in	G 1/4	10	48	199 190 516
230 V, 50-60 Hz	1.2	push-in	G 1/4	10	48	199 190 517



Accessory pilot valve type PV 94 Accessory

Model:

- Cable plug to DIN EN 175301-803 (DIN 43 650) form C

Voltage	Version	NBR Code
0-250 V	no circuitry	199 190 518
0-24 V	with LED	199 190 519
0-24 V	with LED and varistor	199 190 520
0-24 V	with rectifier LED and varistor	199 190 521
200-240 V	with LED	199 190 522
200-240 V	with LED and varistor	199 190 523

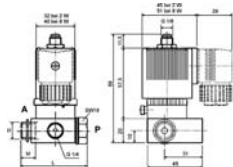


Accessory pilot valve type PV 95 Pilot valve 3/2 ways

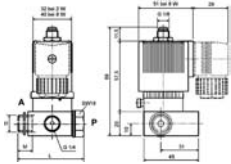
Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/8
- Without connector plug

- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: polyamid/brass
- Electric connection with cable plug
- Power consumption: 11VA at AC inrush; 6VA/2W at AC hold; 2W at DC



Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code
24 V=	1.5	G 1/4	G 1/8	6	75	199 190 524
24 V, 50-60 Hz	1.5	G 1/4	G 1/8	6	75	199 190 525
110 V, 50-60 Hz	1.5	G 1/4	G 1/8	6	75	199 190 526
230 V, 50-60 Hz	1.5	G 1/4	G 1/8	6	75	199 190 527

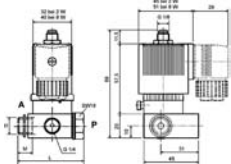


Accessory pilot valve type PV 95 Pilot valve 3/2 ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/4
- Without connector plug
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass
- Electric connection with cable plug
- Power consumption: 11VA at AC inrush; 6VA/2W at AC hold; 2W at DC

Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.5	G 1/4	G 1/4	6	75	199 190 528	
24 V, 50-60 Hz	1.5	G 1/4	G 1/4	6	75	199 190 529	
110 V, 50-60 Hz	1.5	G 1/4	G 1/4	6	75	199 190 530	
230 V, 50-60 Hz	1.5	G 1/4	G 1/4	6	75	199 190 531	



Accessory pilot valve type PV 95 Pilot valve 3/2 ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/8
- Without connector plug
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass
- Electric connection with cable plug
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC

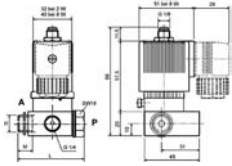
Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.5	G 1/4	G 1/8	10	120	199 190 532	
24 V, 50-60 Hz	1.5	G 1/4	G 1/8	10	120	199 190 533	
110 V, 50-60 Hz	1.5	G 1/4	G 1/8	10	120	199 190 534	
230 V, 50-60 Hz	1.5	G 1/4	G 1/8	10	120	199 190 535	



Accessory pilot valve type PV 95 Pilot valve 3/2 ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/4
- Without connector plug
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass
- Electric connection with cable plug
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC



Voltage	DN [mm]	Compressed air connection P	Actuator connection	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code
24 V=	1.5	G 1/4	G 1/4	10	120	199 190 536
24 V, 50-60 Hz	1.5	G 1/4	G 1/4	10	120	199 190 537
110 V, 50-60 Hz	1.5	G 1/4	G 1/4	10	120	199 190 538
230 V, 50-60 Hz	1.5	G 1/4	G 1/4	10	120	199 190 539



Accessory pilot valve type PV 95 Accessory

Model:

- Cable plug to DIN EN 175301-803 (DIN 43 650) form A

Voltage	Version	NBR Code
0-250 V	no circuitry	199 190 540
0-24 V	with LED	199 190 541
0-24 V	with LED and varistor	199 190 542
0-24 V	with rectifier LED and varistor	199 190 543
200-240 V	with LED	199 190 544
200-240 V	with LED and varistor	199 190 545



Pilot valve type 5470 Pilot valve 4/2 ways

- to pneumatic actuators DA (Double acting)
- Version with NAMUR connection
- Circuit function: 4/2-way valve, in rest position pressure inlet 1 connected to outlet 2, outlet 4 exhausted
- Valve material: polyamid
- Electrical connection: cable plug
- For AC 50-60 Hz and DC

Voltage	DN [mm]	NBR Code
230 V, AC/DC	4	199 190 302
115 V, AC/DC	4	199 190 303
24 V, AC/DC	4	199 190 304



Pilot valve type MNL532 Pilot valve 3/2-5/2-ways

Model:

- With NAMUR connection and two silencers/throttle screws

mode of action:

- 3/2-way valve, in rest position pressure inlet 1 closed, outlet 3 exhausted
- 5/2-way valve, in rest position pressure inlet 1 connected to outlet 4, outlet 3 exhausted
- Material of body: Aluminum

- to pneumatic actuators
- Electrical connection: cable plug

Voltage	DN [mm]	NBR Code	
230 V, AC	5	199 190 360	
110 V, AC	5	199 190 359	
48 V, AC	5	199 190 361	
24 V, AC	5	199 190 358	
24 V, DC	5	199 190 357	



Solenoid pilot valve type PV 2000 Connection module with D-sub connector

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

No	Code	
3	199 190 424	



Solenoid pilot valve type PV 2000 2 x 3/2-way valve

Model:

- lockable manual override
- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

No	Voltage	Code	
1	24V/DC 100%	199 190 435	



Solenoid pilot valve type PV 2000 1 x 5/2-way valve

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

No	Voltage	Code	
2	24 V/DC 100%	199 190 423	



Solonoid pilot valve type PV 2000 End module

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

No	Code
4	199 190 426



Solonoid pilot valve type PV 2000 Connection module AS-interface

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

No	Code
1	199 190 430



Solonoid pilot valve type PV 2000 Connection module profibus

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

No	Code
1	199 190 431



Solonoid pilot valve type PV 2000 Connection module with bus interface

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

No	Code
2	199 190 425



Controllers

Digital electro-pneumatic positioner Type DSR 100 / 101 / 201



- Other versions and accessories on request
- For actuators function FC
- For actuators function FO only possible by assembly in the factory

No	pneumatic rotary actuator DSR 201 Code	
1	199 190 412	

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General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

1 General

- 1.1 These General Conditions shall apply to all Products supplied by Georg Fischer to the Purchaser. They shall also apply to all future business even when no express reference is made to them.
- 1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.
- 1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

- 2.1 Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

- 3.1 Georg Fischer's product range is subject to change.
- 3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

- 4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.
- 4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

- 5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.
- 5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc.

6 Local Laws and Regulations, Export Controls

- 6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.
- 6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

- 7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms of the ICC, latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import duties etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.
- 7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

- 8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.
- 8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser. In particular, payment shall still be made when unessential items are still out-standing provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

- 9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.
- 9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.
- 9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

- 10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.
- 10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:
 - a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.
 - b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially unpractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.
Should the effect of force majeure exceed a period of six months, either party may cancel the contract forthwith.
Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting therefrom, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.
 - c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.
- 10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one month which equally is not met.
The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.
- 10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.
- 10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.
- 10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to liquidated damages in the amount of 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved. Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage.

11 Packing

- 11.1 If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

- 12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EXWORKS, Incoterms ICC, latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.
- 12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

- 13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.
- 13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.
- 13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.
In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.
- 13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

- 14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.
- 14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within 7 working days after discovery, in any event within the agreed warranty period.
- 14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.
- 14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

- 15.1 At the written request of the Purchaser, Georg Fischer undertake to repair or replace at their discretion, as quickly as possible and free of charge all Products supplied which demonstrably suffer from faulty design, materials or workman-ship or from faulty operating or installation instructions.
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.
Replaced parts shall become property of Georg Fischer.
- 15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.
- 15.3 The Purchaser shall be entitled to cancel the contract or to demand a reduction in the contract price if also a second attempt to repair or replace the Products has failed.
- 15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.
- 15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.
- 15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.
- 15.7 In case of Products for use in domestic installations or in utilities
 - Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object as well as, in case of negligence, all other direct damages caused by the defective Product (damage to property and injury to or death of persons) up to CHF 1 000 000 per occurrence.
 - the statute of limitations for warranty or damage claims - contrary to Section 15.6 - will be 5 years from the date of installation.

16 Limitation of Liability

- 16.1 All cases of breach of contract and the relevant consequences as well as all rights and claims on the part of the customer, irrespective of what ground they are based, are exhaustively covered by these general conditions of supply. In particular, any claims not expressly mentioned for damages, reduction of price, termination of or withdrawal from the contract are excluded. In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit and other direct or indirect or consequential damage. This exclusion of liability, however, does not apply to unlawful intent or gross negligence on the part of Georg Fischer and in case of strict liability under applicable product liability statutes, but does apply to unlawful intent or gross negligence of persons employed or appointed by Georg Fischer to perform any of its obligations.

17 Severability

- 17.1 Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

18 Place of Performance and Jurisdiction

- 18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.
Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.
- 18.3 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.

GF Piping Systems → worldwide at home

Our sales companies and representatives ensure local customer support in over 100 countries.

www.piping.georgfischer.com

www.type567.georgfischer.com



The technical data are not binding and not expressly warranted characteristics of the goods. They are subject to change. Our General Conditions of Sale apply.

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