Product Range

Butterfly Valve Type 567

GEORG FISCHER
PIPING SYSTEMS

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
PTFE	Polytetrafluoroethylene
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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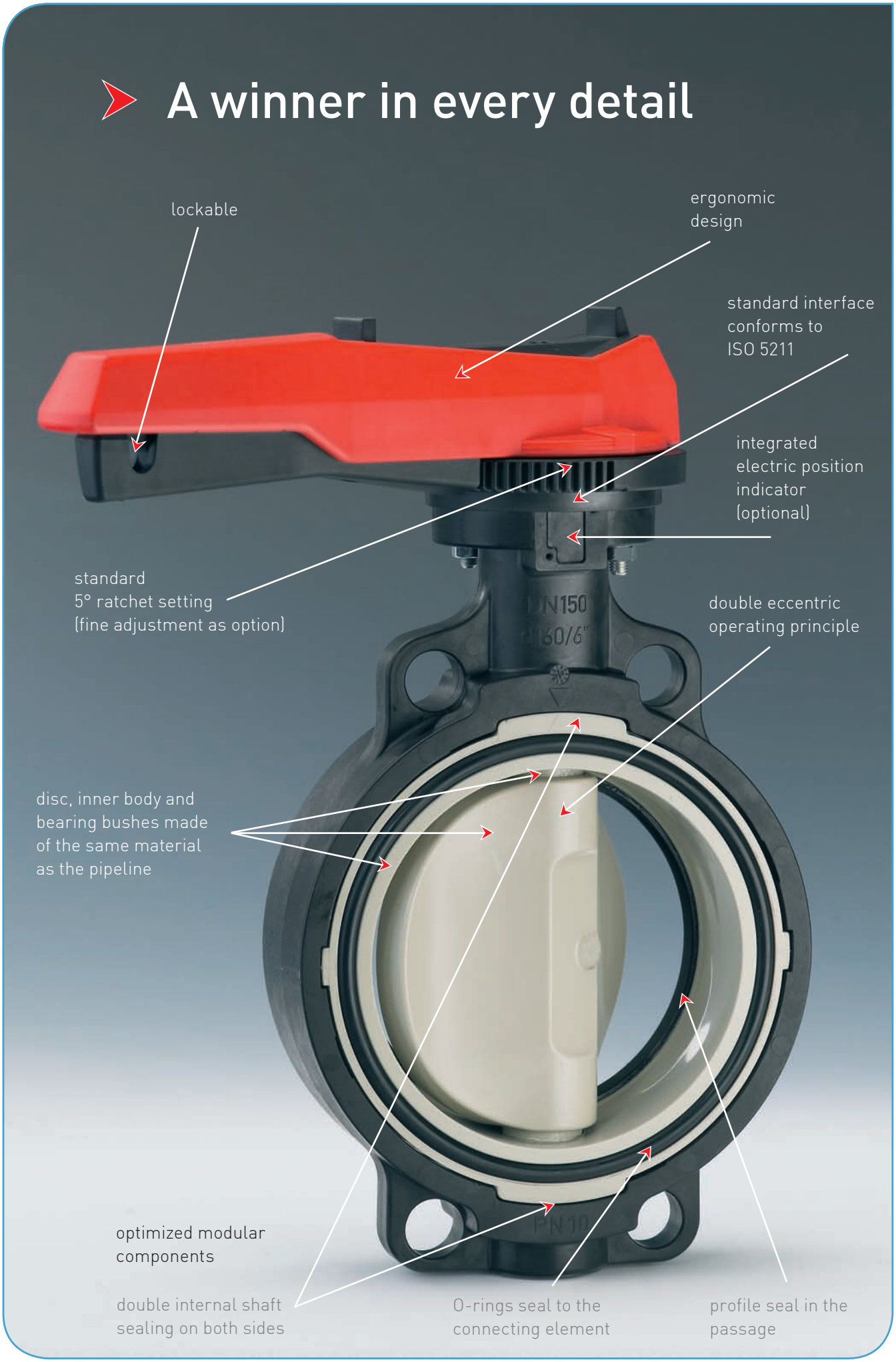
A winner in every detail



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 DN300.

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 b-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
ISO9393
Thermoplastic valves – pressure test methods and requirements
EN558
Face-to-face length of butterfly valves corresponds to EN558
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

Strong features for strong arguments

Now in the material
PVDF available
Higher nominal pressure
by improved design

standard interface
per ISO 5211

disc, inner body and
bearing bushes made
of the same material as
the pipeline.
Your benefit: better re-
sistance to corrosion

robust outer body of PP-GF
30; connecting dimensions
according to
ISO, BS, ANSI, JIS

double eccentric
operating principle

optimized modular
components:

profile seal in the
passage

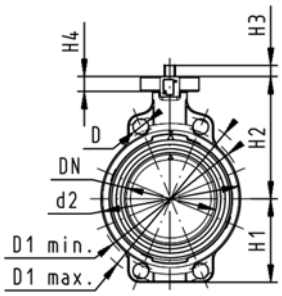
special seal to the
connecting element

Butterfly valves PVC-U

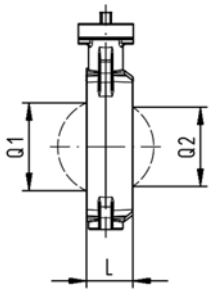
Butterfly valve type 567 PVC-U
Bare shaft

Model:

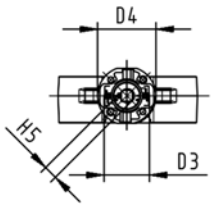
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Interface F07 for the dimensions DN50-200 according to DIN/ISO 5211
- Interface F10 for the dimensions DN250-300 according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



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	10	55200	**161 567 809**	**161 567 829**
315	300	12	10	80000	**161 567 810**	**161 567 830**



d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]
63	19	120.0	125.0	104	70	90	222	77	134	27	23	11	45	40
75	19	139.7	145.0	115	70	90	235	83	140	27	23	11	46	54
90	19	150.0	160.0	131	70	90	247	89	146	27	23	11	49	67
110	19	175.0	190.5	161	70	90	287	104	167	16	23	14	56	88
140	23	210.0	215.9	187	70	90	313	117	181	16	23	14	64	113
160	24	241.3	241.3	215	70	90	335	130	189	19	23	17	72	139
225	23	290.0	295.0	267	70	90	387	158	210	19	23	17	73	178
280	25	353.0	362.0	329	102	125	509	205	264	40	23	22	113	210
315	25	400.0	432.0	379	102	125	553	228	285	40	23	22	113	256

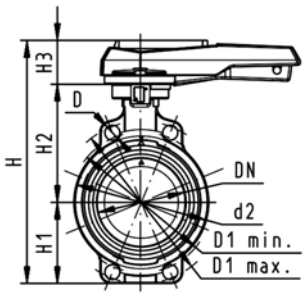


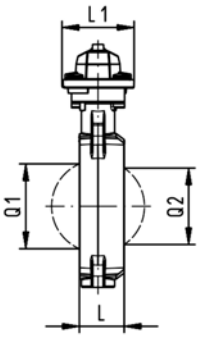
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

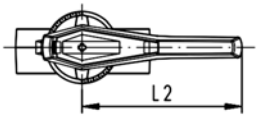
Butterfly valve type 567 PVC-U
Hand lever with ratchet settings

Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version







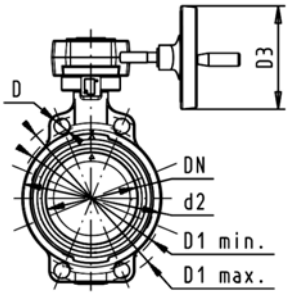
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	**161 567 002**	**161 567 022**
75	65	2 ½	10	2200	**161 567 003**	**161 567 023**
90	80	3	10	3000	**161 567 004**	**161 567 024**
110	100	4	10	6500	**161 567 005**	**161 567 025**
140	125	5	10	11500	**161 567 006**	**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**
280	250	10	10	55200	**161 567 009**	**161 567 029**
315	300	12	10	80000	**161 567 010**	**161 567 030**

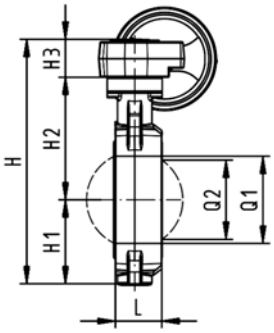
d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	40	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	54	35
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50
110	19	175.0	190.5	161	325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

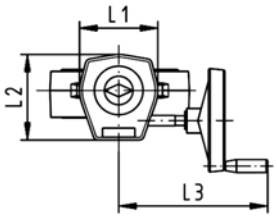
Butterfly valve type 567 PVC-U
Reduction gear with handwheel

Model:

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







d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	10	55200	**161 567 049**	**161 567 069**
315	300	12	10	80000	**161 567 050**	**161 567 070**

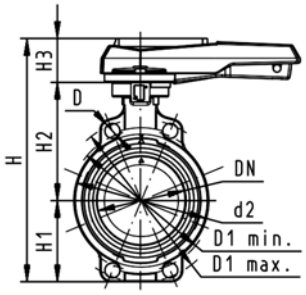
d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	19	120.0	125.0	104	160	278	77	134	60	45	120	132	236	40
75	19	139.7	145.0	115	160	291	83	140	60	46	120	132	236	54
90	19	150.0	160.0	131	160	303	89	146	60	49	120	132	236	67
110	19	175.0	190.5	160	160	339	104	167	60	56	120	132	236	88
140	23	210.0	215.9	187	160	365	117	181	60	64	120	132	236	113
160	24	241.3	241.3	215	160	387	130	189	60	72	120	132	236	139
225	23	290.0	295.0	267	160	436	158	210	60	73	120	132	236	178
280	25	353.0	362.0	329	160	529	205	264	60	113	134	151	261	210
315	25	400.0	432.0	379	160	573	228	285	60	113	134	151	261	256

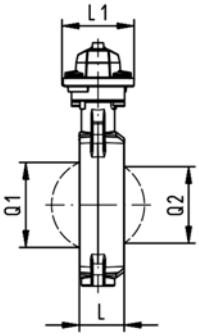
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

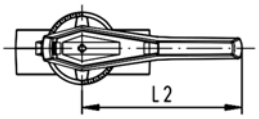
Butterfly valves PVC-U SF

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

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







d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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	40	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	54	35
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50
110	19	175.0	190.5	161	325	104	167	55	56	106	255	88	74
140	23	210.0	215.9	187	352	117	181	55	64	106	255	113	97
160	24	241.3	241.3	215	373	130	189	55	72	106	255	139	123
225	23	290.0	295.0	267	435	158	210	67	73	140	408	178	169

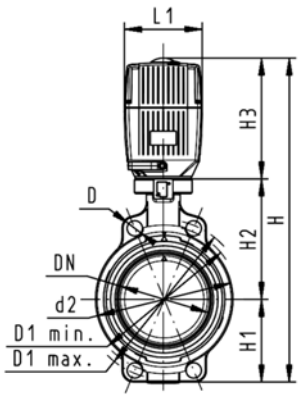
Butterfly valves electric PVC-U

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

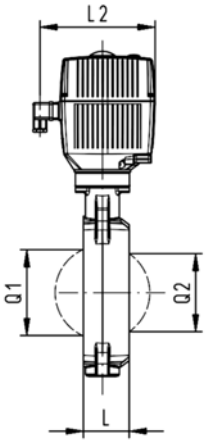
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- The dimension DN300 on request

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	6	55200	**199 140 049**	**199 140 069**
315	300	12	4	80000	**199 140 050**	**199 140 070**



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]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256



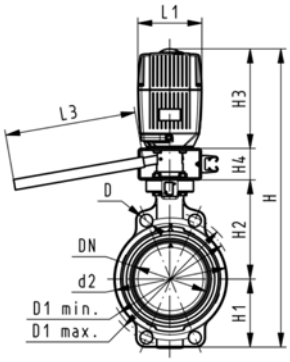
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

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

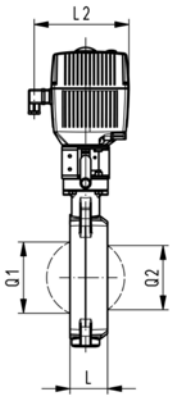
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- 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	**199 140 002**	**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-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

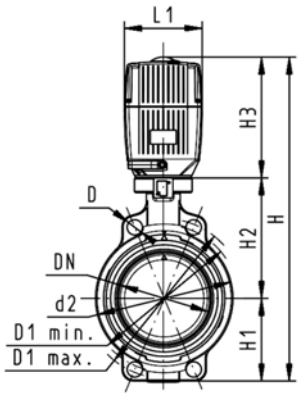


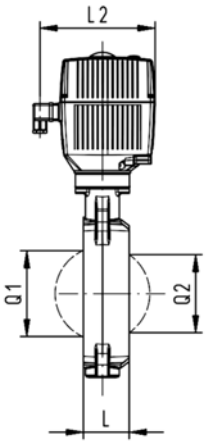
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

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/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- The dimension DN300 on request





d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	6	55200	**199 140 129**	**199 140 149**
315	300	12	4	80000	**199 140 130**	**199 140 150**

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]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256

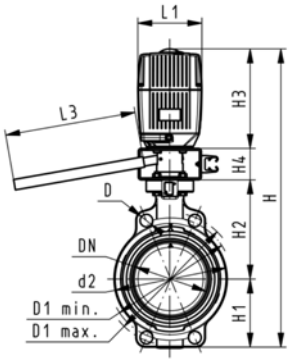
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

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

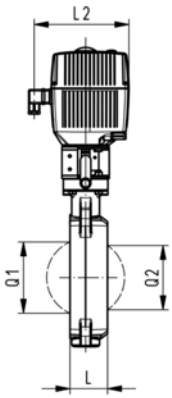
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- 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	**199 140 082**	**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-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180



d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

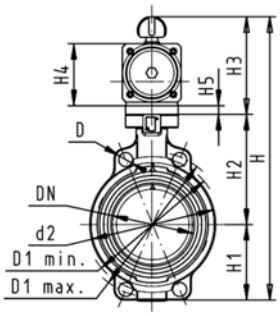
Butterfly valves pneumatic PVC-U

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

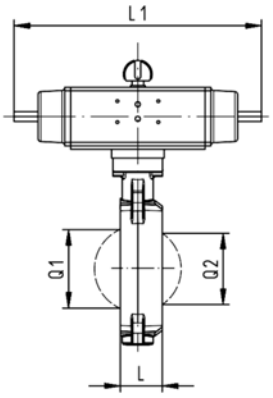
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	10	55200	**199 240 009**	**199 240 029**
315	300	12	10	80000	**199 240 010**	**199 240 030**



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
280	PA-65 FC	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FC	25	400.0	432.0	379	866	228	285	196	157		113	663



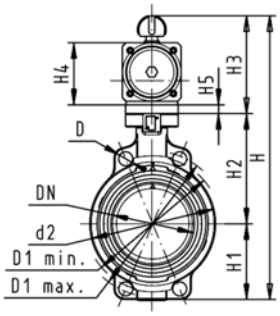
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169
280	137	210	207
315	145	256	253

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

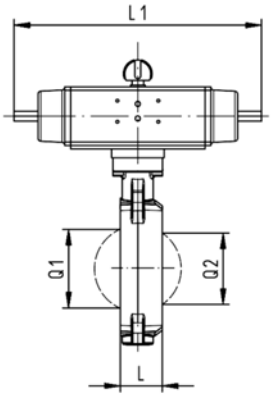
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	**199 240 042**	**199 240 062**
75	65	2 ½	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**
280	250	10	10	55200	**199 240 049**	**199 240 069**
315	300	12	10	80000	**199 240 050**	**199 240 070**



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
280	PA-65 FO	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FO	25	400.0	432.0	379	866	228	285	196	157		113	663



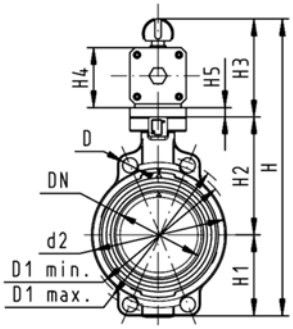
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169
280	137	210	207
315	145	256	253

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

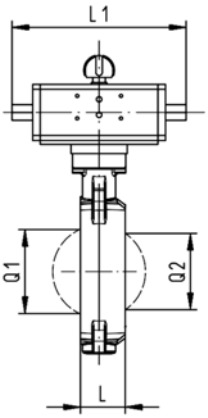
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	10	55200	**199 240 089**	**199 240 109**
315	300	12	10	80000	**199 240 090**	**199 240 110**



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	235
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	279
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279
280	PA-65 DA	25	353.0	362.0	329	748	205	264	161	118		113	350
315	PA-70 DA	25	400.0	432.0	379	816	228	285	173	130		113	381



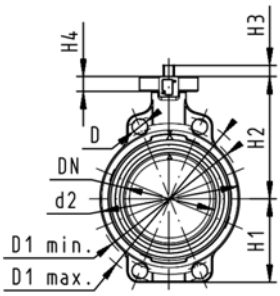
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	55	40	
75	55	54	35
90	60	67	50
110	65	88	74
140	72	113	97
160	80	139	123
225	90	178	169
280	112	210	207
315	125	256	253

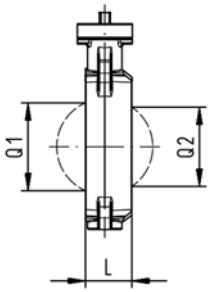
Butterfly valves PVC-C

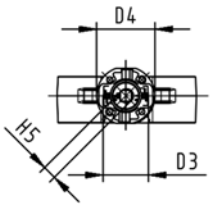
Butterfly valve type 567 PVC-C
Bare shaft

Model:

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







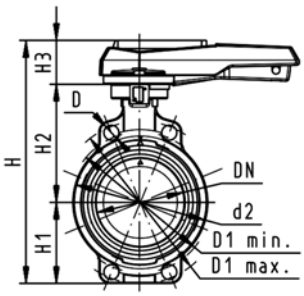
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	**163 567 802**	**163 567 822**
75	65	2 ½	10	2200	**163 567 803**	**163 567 823**
90	80	3	10	3000	**163 567 804**	**163 567 824**
110	100	4	10	6500	**163 567 805**	**163 567 825**
140	125	5	10	11500	**163 567 806**	**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**

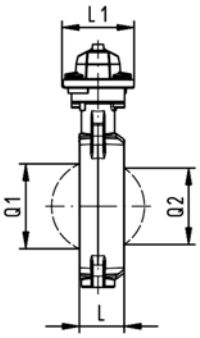
d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	70	90	222	77	134	27	23	11	45	40	
75	19	139.7	145.0	115	70	90	235	83	140	27	23	11	46	54	35
90	19	150.0	160.0	131	70	90	247	89	146	27	23	11	49	67	50
110	19	175.0	190.5	161	70	90	287	104	167	16	23	14	56	88	74
140	23	210.0	215.9	187	70	90	313	117	181	16	23	14	64	113	97
160	24	241.3	241.3	215	70	90	335	130	189	19	23	17	72	139	123
225	23	290.0	295.0	267	70	90	387	158	210	19	23	17	73	178	169

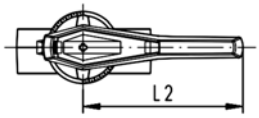
Butterfly valve type 567 PVC-C
Hand lever with ratchet settings

Model:

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







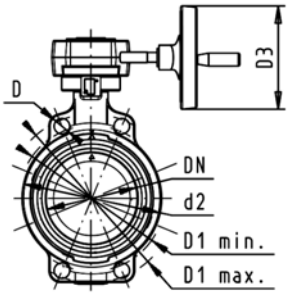
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	**163 567 002**	**163 567 022**
75	65	2 ½	10	2200	**163 567 003**	**163 567 023**
90	80	3	10	3000	**163 567 004**	**163 567 024**
110	100	4	10	6500	**163 567 005**	**163 567 025**
140	125	5	10	11500	**163 567 006**	**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**

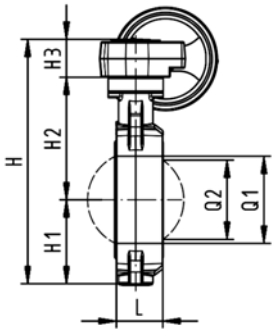
d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	40	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	54	35
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50
110	19	175.0	190.5	161	325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

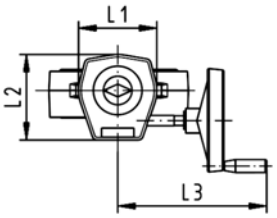
Butterfly valve type 567 PVC-C
Reduction gear with handwheel

Model:

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







d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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]	Q1 [mm]
63	19	120.0	125.0	104	160	278	77	134	60	45	120	132	236	40
75	19	139.7	145.0	115	160	291	83	140	60	46	120	132	236	54
90	19	150.0	160.0	131	160	303	89	146	60	49	120	132	236	67
110	19	175.0	190.5	160	160	339	104	167	60	56	120	132	236	88
140	23	210.0	215.9	187	160	365	117	181	60	64	120	132	236	113
160	24	241.3	241.3	215	160	387	130	189	60	72	120	132	236	139
225	23	290.0	295.0	267	160	436	158	210	60	73	120	132	236	178

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

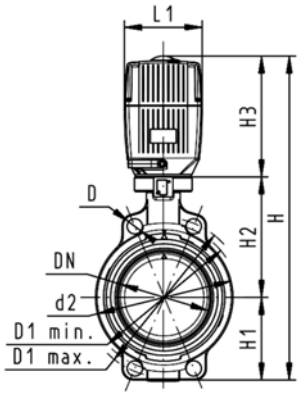
Butterfly valves electric PVC-C

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

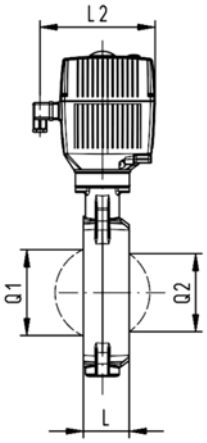
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- 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	**199 140 202**	**199 140 222**
75	65	2 ½	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]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178



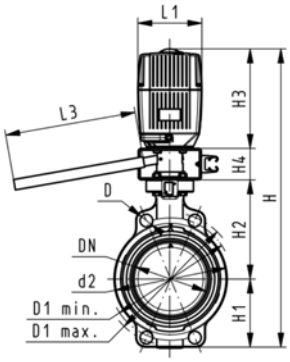
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

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

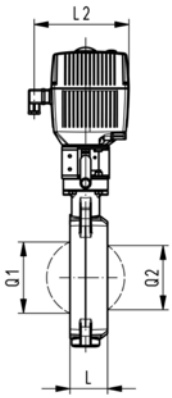
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- 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	**199 140 162**	**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]	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-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180



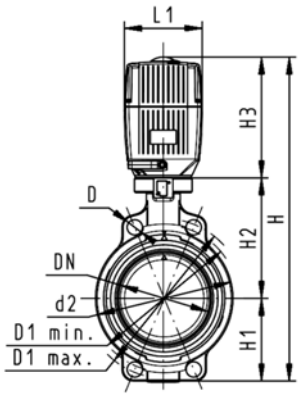
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

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

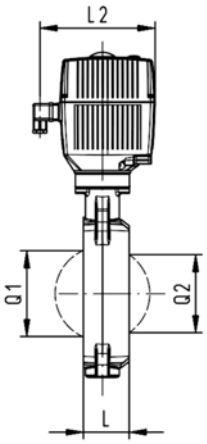
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- 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	**199 140 282**	**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]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178



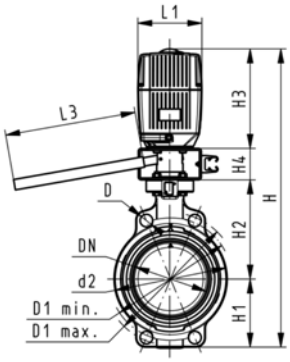
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169

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

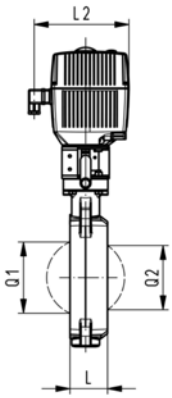
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- 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	**199 140 242**	**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]	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-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180



d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

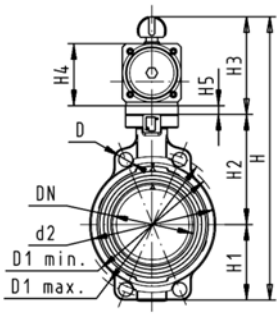
Butterfly valves pneumatic PVC-C

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

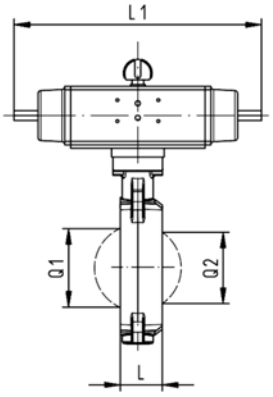
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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]	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



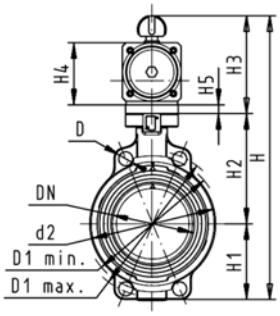
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169

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

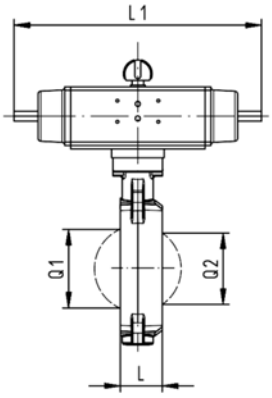
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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]	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



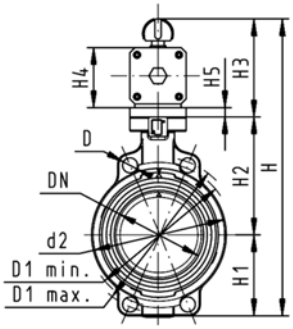
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169

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

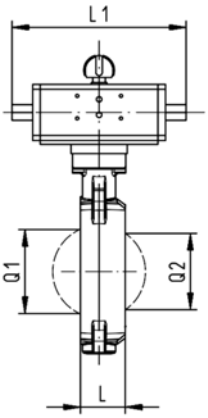
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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]	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	235
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	279
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279



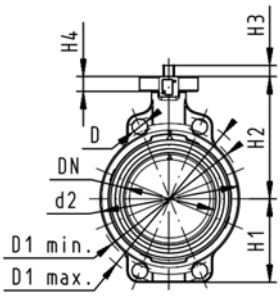
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	55	40	
75	55	54	35
90	60	67	50
110	65	88	74
140	72	113	97
160	80	139	123
225	90	178	169

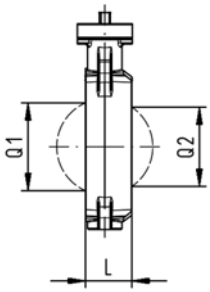
Butterfly valves ABS

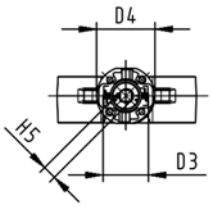
Butterfly valve type 567 ABS
Bare shaft

Model:

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







d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
63	50	10	1470	**169 567 802**
75	65	10	2200	**169 567 803**
90	80	10	3000	**169 567 804**
110	100	10	6500	**169 567 805**
140	125	10	11500	**169 567 806**
160	150	10	16600	**169 567 807**
225	200	10	39600	**169 567 808**

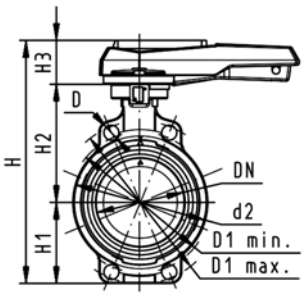
d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	70	90	222	77	134	27	23	11	45	40	
75	19	139.7	145.0	115	70	90	235	83	140	27	23	11	46	54	35
90	19	150.0	160.0	131	70	90	247	89	146	27	23	11	49	67	50
110	19	175.0	190.5	161	70	90	287	104	167	16	23	14	56	88	74
140	23	210.0	215.9	187	70	90	313	117	181	16	23	14	64	113	97
160	24	241.3	241.3	215	70	90	335	130	189	19	23	17	72	139	123
225	23	290.0	295.0	267	70	90	387	158	210	19	23	17	73	178	169

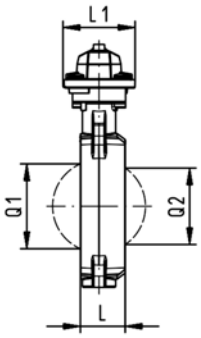
d [mm]	closest inch
63	2
75	2 ½
90	3
110	4
140	5
160	6
225	8

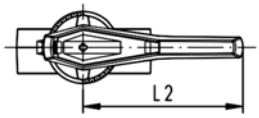
Butterfly valve type 567 ABS
Hand lever with ratchet settings

Model:

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







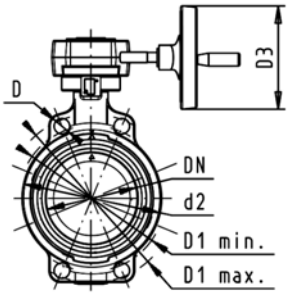
d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
63	50	10	1470	**169 567 002**
75	65	10	2200	**169 567 003**
90	80	10	3000	**169 567 004**
110	100	10	6500	**169 567 005**
140	125	10	11500	**169 567 006**
160	150	10	16600	**169 567 007**
225	200	10	39600	**169 567 008**

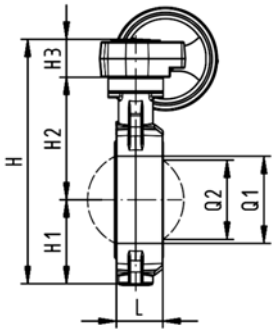
d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]	closest inch
63	19	120.0	125.0	104	264	77	134	54	45	106	205	40		2
75	19	139.7	145.0	115	277	83	140	54	46	106	205	54	35	2 ½
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50	3
110	19	175.0	190.5	161	325	104	167	55	56	106	255	88	74	4
140	23	210.0	215.9	187	352	117	181	55	64	106	255	113	97	5
160	24	241.3	241.3	215	373	130	189	55	72	106	255	139	123	6
225	23	290.0	295.0	267	435	158	210	67	73	140	408	178	169	8

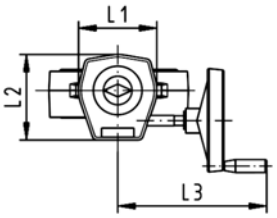
Butterfly valve type 567 ABS
Reduction gear with handwheel

Model:

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







d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
63	50	10	1470	**169 567 022**
75	65	10	2200	**169 567 023**
90	80	10	3000	**169 567 024**
110	100	10	6500	**169 567 025**
140	125	10	11500	**169 567 026**
160	150	10	16600	**169 567 027**
225	200	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]	Q1 [mm]
63	19	120.0	125.0	104	160	278	77	134	60	45	120	132	236	40
75	19	139.7	145.0	115	160	291	83	140	60	46	120	132	236	54
90	19	150.0	160.0	131	160	303	89	146	60	49	120	132	236	67
110	19	175.0	190.5	160	160	339	104	167	60	56	120	132	236	88
140	23	210.0	215.9	187	160	365	117	181	60	64	120	132	236	113
160	24	241.3	241.3	215	160	387	130	189	60	72	120	132	236	139
225	23	290.0	295.0	267	160	436	158	210	60	73	120	132	236	178

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

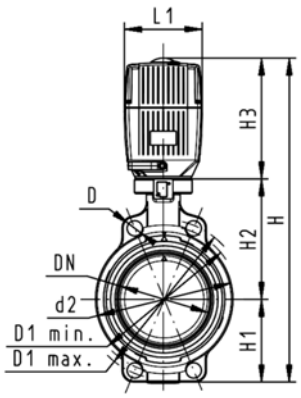
Butterfly valves electric ABS

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

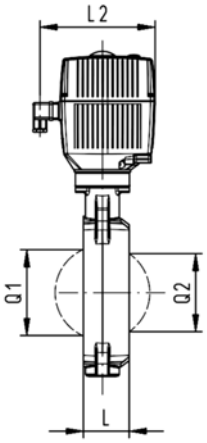
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
63	50	10	1470	**199 140 502**
75	65	10	2200	**199 140 503**
90	80	10	3000	**199 140 504**
110	100	10	6500	**199 140 505**
140	125	10	11500	**199 140 506**
160	150	10	16600	**199 140 507**
225	200	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]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178



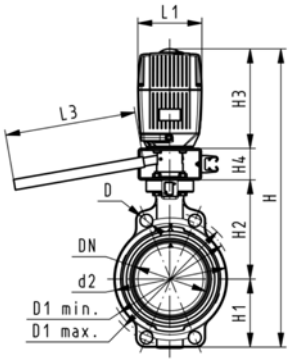
d [mm]	Q2 [mm]	closest inch
63		2
75	35	2 ½
90	50	3
110	74	4
140	97	5
160	123	6
225	169	8

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

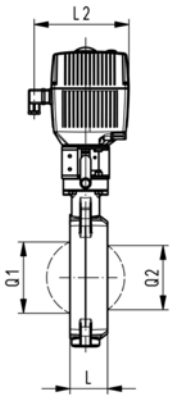
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
63	50	10	1470	**199 140 482**
75	65	10	2200	**199 140 483**
90	80	10	3000	**199 140 484**
110	100	10	6500	**199 140 485**
140	125	10	11500	**199 140 486**
160	150	10	16600	**199 140 487**
225	200	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]	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-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180



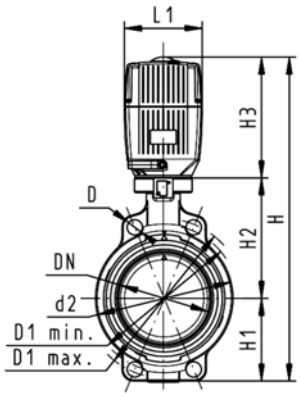
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]	closest inch
63	250	40		2
75	250	54	35	2 ½
90	250	67	50	3
110	250	88	74	4
140	250	113	97	5
160	250	139	123	6
225	250	178	169	8

Butterfly valve type 140 ABS 24V
Without manual override

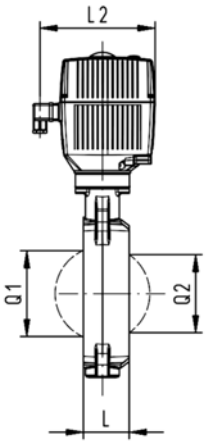
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
63	50	10	1470	**199 140 542**
75	65	10	2200	**199 140 543**
90	80	10	3000	**199 140 544**
110	100	10	6500	**199 140 545**
140	125	10	11500	**199 140 546**
160	150	10	16600	**199 140 547**
225	200	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]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178



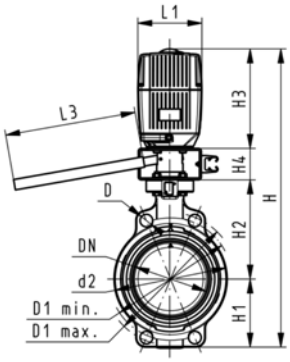
d [mm]	Q2 [mm]	closest inch
63		2
75	35	2 ½
90	50	3
110	74	4
140	97	5
160	123	6
225	169	8

Butterfly valve type 140 ABS 24V
With manual override

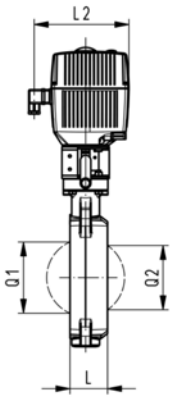
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
63	50	10	1470	**199 140 522**
75	65	10	2200	**199 140 523**
90	80	10	3000	**199 140 524**
110	100	10	6500	**199 140 525**
140	125	10	11500	**199 140 526**
160	150	10	16600	**199 140 527**
225	200	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]	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-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180



d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]	closest inch
63	250	40		2
75	250	54	35	2 ½
90	250	67	50	3
110	250	88	74	4
140	250	113	97	5
160	250	139	123	6
225	250	178	169	8

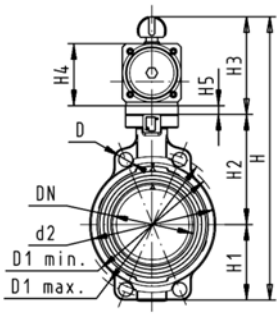
Butterfly valves pneumatic ABS

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

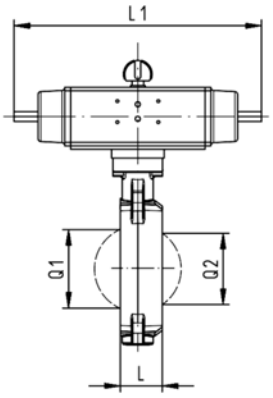
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
63	50	10	1470	**199 240 422**
75	65	10	2200	**199 240 423**
90	80	10	3000	**199 240 424**
110	100	10	6500	**199 240 425**
140	125	10	11500	**199 240 426**
160	150	10	16600	**199 240 427**
225	200	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]	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



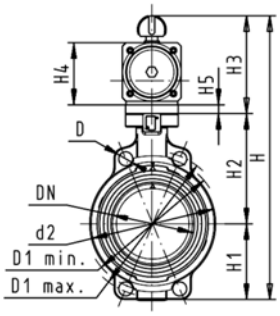
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]	closest inch
63	65	40		2
75	65	54	35	2 ½
90	72	67	50	3
110	80	88	74	4
140	90	113	97	5
160	100	139	123	6
225	112	178	169	8

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

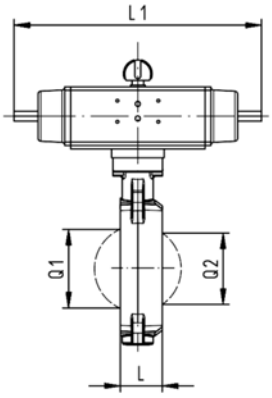
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
63	50	10	1470	**199 240 402**
75	65	10	2200	**199 240 403**
90	80	10	3000	**199 240 404**
110	100	10	6500	**199 240 405**
140	125	10	11500	**199 240 406**
160	150	10	16600	**199 240 407**
225	200	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]	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



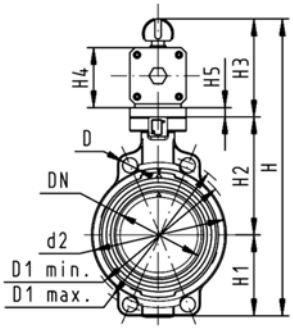
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]	closest inch
63	65	40		2
75	65	54	35	2 ½
90	72	67	50	3
110	80	88	74	4
140	90	113	97	5
160	100	139	123	6
225	112	178	169	8

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

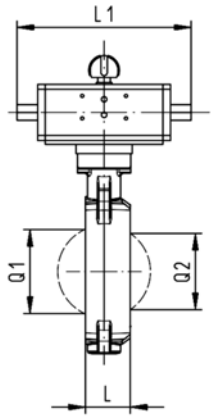
Model:

- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code
63	50	10	1470	**199 240 442**
75	65	10	2200	**199 240 443**
90	80	10	3000	**199 240 444**
110	100	10	6500	**199 240 445**
140	125	10	11500	**199 240 446**
160	150	10	16600	**199 240 447**
225	200	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]	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	235
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	279
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279

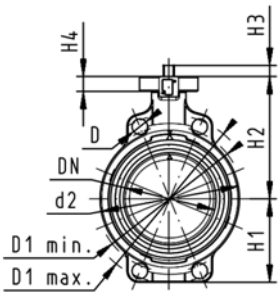


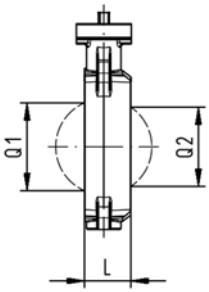
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]	closest inch
63	55	40		2
75	55	54	35	2 ½
90	60	67	50	3
110	65	88	74	4
140	72	113	97	5
160	80	139	123	6
225	90	178	169	8

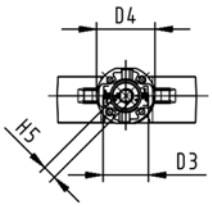
Butterfly valves PP-H

Butterfly valve type 567 PP-H
Bare shaft

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







d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	8	55200	**167 567 809**	**167 567 829**
315	300	12	8	80000	**167 567 810**	**167 567 830**

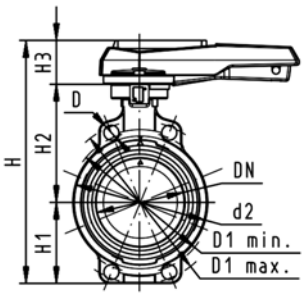
d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]
63	19	120.0	125.0	104	70	90	222	77	134	27	23	11	45	40
75	19	139.7	145.0	115	70	90	235	83	140	27	23	11	46	54
90	19	150.0	160.0	131	70	90	247	89	146	27	23	11	49	67
110	19	175.0	190.5	161	70	90	287	104	167	16	23	14	56	88
140	23	210.0	215.9	187	70	90	313	117	181	16	23	14	64	113
160	24	241.3	241.3	215	70	90	335	130	189	19	23	17	72	139
225	23	290.0	295.0	267	70	90	387	158	210	19	23	17	73	178
280	25	353.0	362.0	329	102	125	509	205	264	40	23	22	113	210
315	25	400.0	432.0	379	102	125	553	228	285	40	23	22	113	256

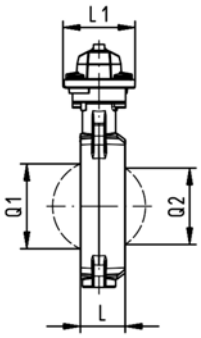
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

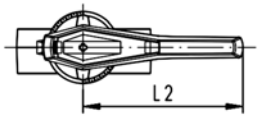
PROGEF Standard
Butterfly valve type 567
Hand lever with ratchet settings

Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version







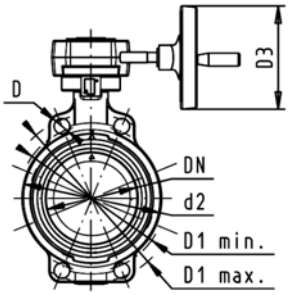
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	**167 567 002**	**167 567 022**
75	65	2 ½	10	2200	**167 567 003**	**167 567 023**
90	80	3	10	3000	**167 567 004**	**167 567 024**
110	100	4	10	6500	**167 567 005**	**167 567 025**
140	125	5	10	11500	**167 567 006**	**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**
280	250	10	8	55200	**167 567 009**	**167 567 029**
315	300	12	8	80000	**167 567 010**	**167 567 030**

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

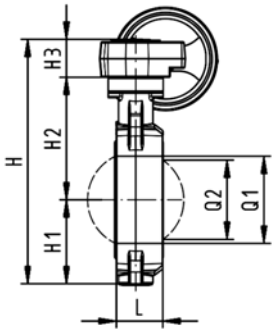
PROGEF Standard
Butterfly valve type 567
Reduction gear with handwheel

Model:

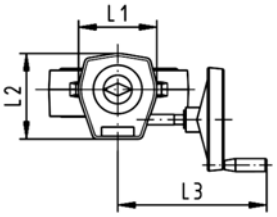
- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752



d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	8	55200	**167 567 049**	**167 567 069**
315	300	12	8	80000	**167 567 050**	**167 567 070**



d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	19	120.0	125.0	104	160	278	77	134	60	45	120	132	236	40
75	19	139.7	145.0	115	160	291	83	140	60	46	120	132	236	54
90	19	150.0	160.0	131	160	303	89	146	60	49	120	132	236	67
110	19	175.0	190.5	160	160	339	104	167	60	56	120	132	236	88
140	23	210.0	215.9	187	160	365	117	181	60	64	120	132	236	113
160	24	241.3	241.3	215	160	387	130	189	60	72	120	132	236	139
225	23	290.0	295.0	267	160	436	158	210	60	73	120	132	236	178
280	25	353.0	362.0	329	160	529	205	264	60	113	134	151	261	210
315	25	400.0	432.0	379	160	573	228	285	60	113	134	151	261	256



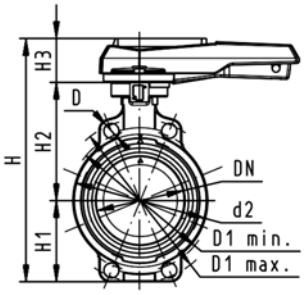
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

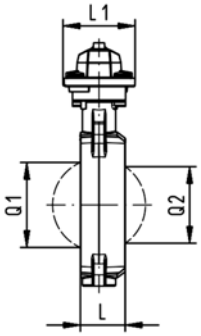
Butterfly valves PROGEF® SF

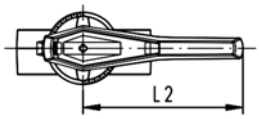
PROGEF Plus silicone free
Butterfly valve type 567
Hand lever with ratchet settings

Model:

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







d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**

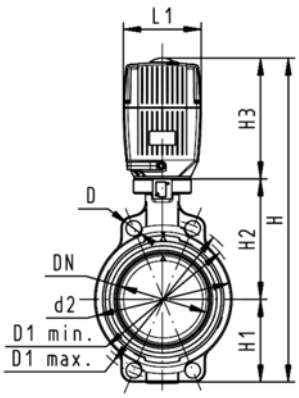
d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	40	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	54	35
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50
110	19	175.0	190.5	161	325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

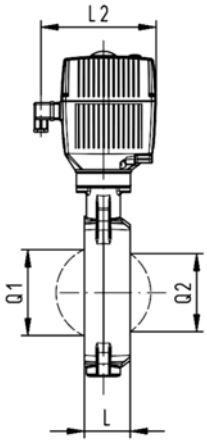
Butterfly valves electric PP-H

PROGEF Standard
Butterfly valve type 140 24V
Without manual override

Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- The dimension DN300 on request





d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	**199 140 442**	**199 140 462**
75	65	2 ½	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**
280	250	10	6	55200	**199 140 449**	**199 140 469**
315	300	12	4	80000	**199 140 450**	**199 140 470**

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]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256

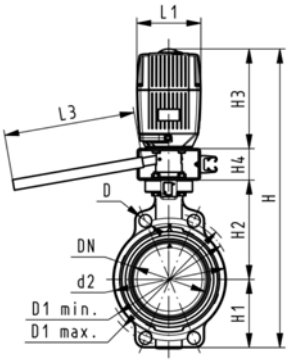
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

PROGEF Standard
Butterfly valve type 140 24V
With manual override

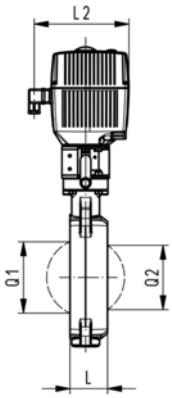
Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- 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	**199 140 402**	**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-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

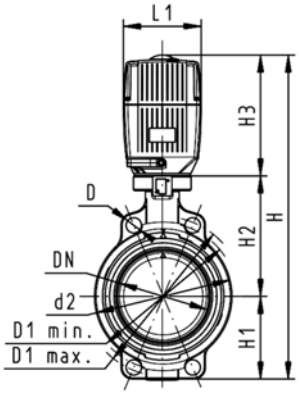


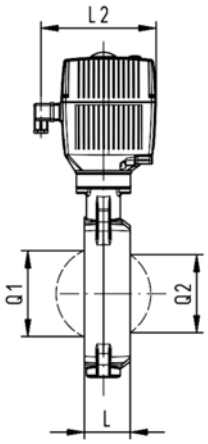
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

PROGEF Standard
Butterfly valve type 140 100-230V
Without manual override

Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard
- The dimension DN300 on request





d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	6	55200	**199 140 369**	**199 140 389**
315	300	12	4	80000	**199 140 370**	**199 140 390**

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]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256

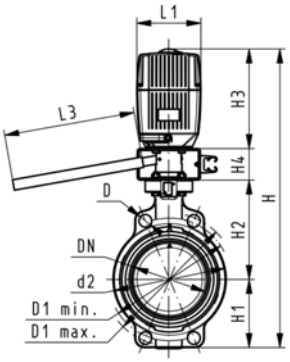
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

PROGEF Standard
Butterfly valve type 140 100-230V
With manual override

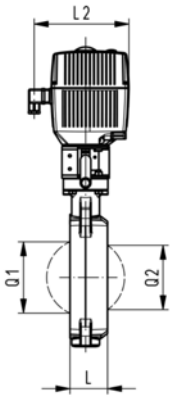
Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- 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-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180



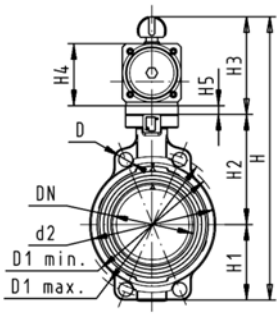
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

Butterfly valves pneumatic PP-H

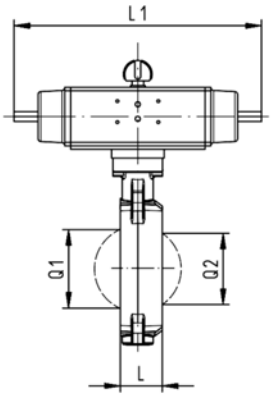
Butterfly valve type 240 PP-H
FC (Fail safe to close)
Without manual override

Model:
- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	8	55200	**199 240 289**	**199 240 309**
315	300	12	8	80000	**199 240 290**	**199 240 310**



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
280	PA-65 FC	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FC	25	400.0	432.0	379	866	228	285	196	157		113	663

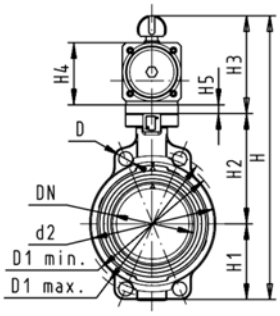


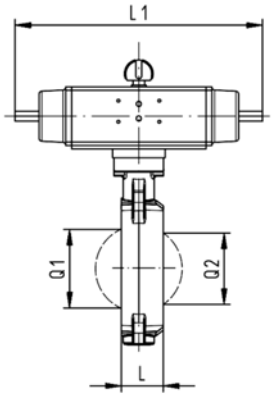
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169
280	137	210	207
315	145	256	253

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

Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)





d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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**
280	250	10	8	55200	**199 240 329**	**199 240 349**
315	300	12	8	80000	**199 240 330**	**199 240 350**

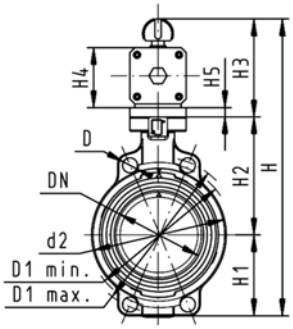
d [mm]	Actuator unit type	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]
63	PA-30 FO	19	120.0	125.0	104	327	77	134	117	70	15	45	276
75	PA-30 FO	19	139.7	145.0	115	340	83	140	117	70	15	46	276
90	PA-35 FO	19	150.0	160.0	131	361	89	146	126	78	15	49	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
280	PA-65 FO	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FO	25	400.0	432.0	379	866	228	285	196	157		113	663

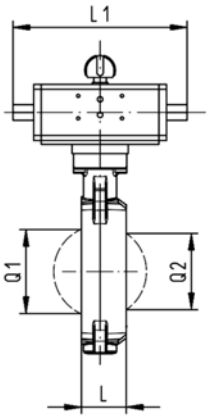
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169
280	137	210	207
315	145	256	253

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

Model:

- Material: PP-H
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)





d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	EPDM Code	FPM Code
63	50	2	10	1470	**199 240 362**	**199 240 382**
75	65	2 ½	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**
280	250	10	8	55200	**199 240 369**	**199 240 389**
315	300	12	8	80000	**199 240 370**	**199 240 390**

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	235
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	279
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279
280	PA-65 DA	25	353.0	362.0	329	748	205	264	161	118		113	350
315	PA-70 DA	25	400.0	432.0	379	816	228	285	173	130		113	381

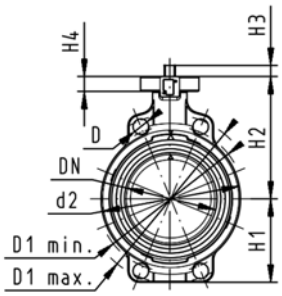
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	55	40	
75	55	54	35
90	60	67	50
110	65	88	74
140	72	113	97
160	80	139	123
225	90	178	169
280	112	210	207
315	125	256	253

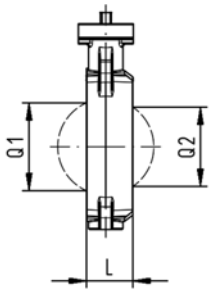
Butterfly valves SYGEF®

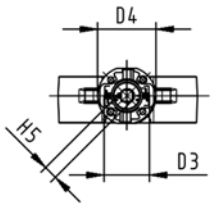
SYGEF® standard
Butterfly valve type 567 PVDF
Bare shaft

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

Model with PTFE seal in DN250 and DN300 available from June 2009







d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	**175 567 822**	**175 567 842**
75	65	2 ½	10	2200	**175 567 823**	**175 567 843**
90	80	3	10	3000	**175 567 824**	**175 567 844**
110	100	4	10	6500	**175 567 825**	**175 567 845**
140	125	5	10	11500	**175 567 826**	**175 567 846**
160	150	6	10	16600	**175 567 827**	**175 567 847**
225	200	8	10	39600	**175 567 828**	**175 567 848**
280	250	10	10	55200	**175 567 829**	**175 567 849**
315	300	12	10	80000	**175 567 830**	**175 567 850**

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	Q1 [mm]
63	19	120.0	125.0	104	70	90	222	77	134	27	23	11	45	40
75	19	139.7	145.0	115	70	90	235	83	140	27	23	11	46	54
90	19	150.0	160.0	131	70	90	247	89	146	27	23	11	49	67
110	19	175.0	190.5	161	70	90	287	104	167	16	23	14	56	88
140	23	210.0	215.9	187	70	90	313	117	181	16	23	14	64	113
160	24	241.3	241.3	215	70	90	335	130	189	19	23	17	72	139
225	23	290.0	295.0	267	70	90	387	158	210	19	23	17	73	178
280	25	353.0	362.0	329	102	125	509	205	264	40	23	22	113	210
315	25	400.0	432.0	379	102	125	553	228	285	40	23	22	113	256

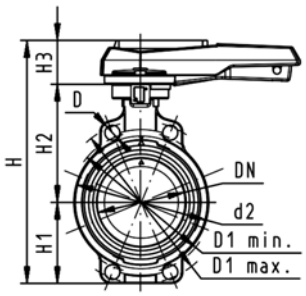
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

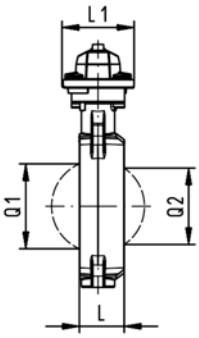
SYGEF Standard
Butterfly valve type 567
Hand lever with ratchet settings

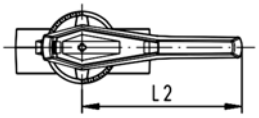
Model:

- Material: PVDF
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- We recommend for the dimensions DN250 and DN300 only 6 bar maximum system pressure for the hand lever version

Model with PTFE seal in DN250 and DN300 available from June 2009







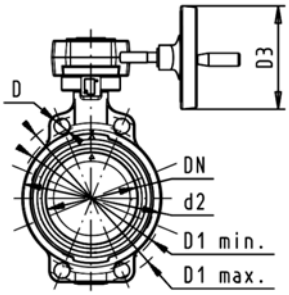
d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	**175 567 002**	**175 567 202**
75	65	2 ½	10	2200	**175 567 003**	**175 567 203**
90	80	3	10	3000	**175 567 004**	**175 567 204**
110	100	4	10	6500	**175 567 005**	**175 567 205**
140	125	5	10	11500	**175 567 006**	**175 567 206**
160	150	6	10	16600	**175 567 007**	**175 567 207**
225	200	8	10	39600	**175 567 008**	**175 567 208**
280	250	10	10	55200	**175 567 009**	**175 567 209**
315	300	12	10	80000	**175 567 010**	**175 567 210**

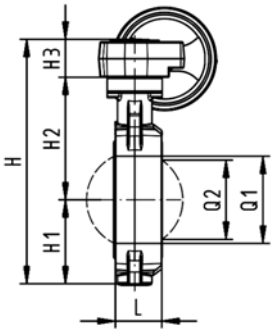
d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	19	120.0	125.0	104	264	77	134	54	45	106	205	40	
75	19	139.7	145.0	115	277	83	140	54	46	106	205	54	35
90	19	150.0	160.0	131	289	89	146	54	49	106	205	67	50
110	19	175.0	190.5	161	325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

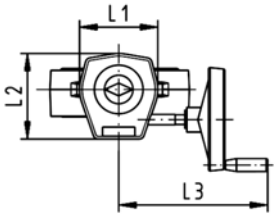
SYGEF Standard
Butterfly valve type 567
Reduction gear with handwheel

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

Model with PTFE seal in DN250 and DN300 available from June 2009







d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	**175 567 022**	**175 567 222**
75	65	2 ½	10	2200	**175 567 023**	**175 567 223**
90	80	3	10	3000	**175 567 024**	**175 567 224**
110	100	4	10	6500	**175 567 025**	**175 567 225**
140	125	5	10	11500	**175 567 026**	**175 567 226**
160	150	6	10	16600	**175 567 027**	**175 567 227**
225	200	8	10	39600	**175 567 028**	**175 567 228**
280	250	10	10	55200	**175 567 029**	**175 567 229**
315	300	12	10	80000	**175 567 030**	**175 567 230**

d [mm]	D [mm]	D1 min. [mm]	D1 max. [mm]	d2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	Q1 [mm]
63	19	120.0	125.0	104	160	278	77	134	60	45	120	132	236	40
75	19	139.7	145.0	115	160	291	83	140	60	46	120	132	236	54
90	19	150.0	160.0	131	160	303	89	146	60	49	120	132	236	67
110	19	175.0	190.5	160	160	339	104	167	60	56	120	132	236	88
140	23	210.0	215.9	187	160	365	117	181	60	64	120	132	236	113
160	24	241.3	241.3	215	160	387	130	189	60	72	120	132	236	139
225	23	290.0	295.0	267	160	436	158	210	60	73	120	132	236	178
280	25	353.0	362.0	329	160	529	205	264	60	113	134	151	261	210
315	25	400.0	432.0	379	160	573	228	285	60	113	134	151	261	256

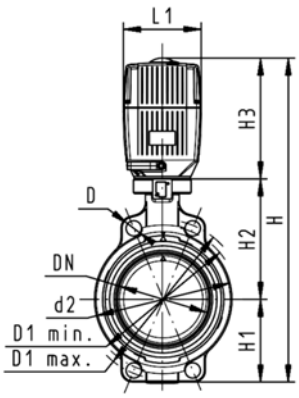
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

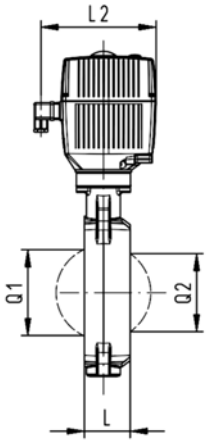
Butterfly valves electric SYGEF®

SYGEF Standard
Butterfly valve type 140 24V
Without manual override

Model:
- Material: PVDF
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

Model with PTFE seal in DN250 and DN300 available from June 2009





d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	**199 140 622**	**199 140 662**
75	65	2 ½	10	2200	**199 140 623**	**199 140 663**
90	80	3	10	3000	**199 140 624**	**199 140 664**
110	100	4	10	6500	**199 140 625**	**199 140 665**
140	125	5	10	11500	**199 140 626**	**199 140 666**
160	150	6	10	16600	**199 140 627**	**199 140 667**
225	200	8	10	39600	**199 140 628**	**199 140 668**
280	250	10	6	55200	**199 140 629**	**199 140 669**
315	300	12	4	80000	**199 140 630**	**199 140 670**

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]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256

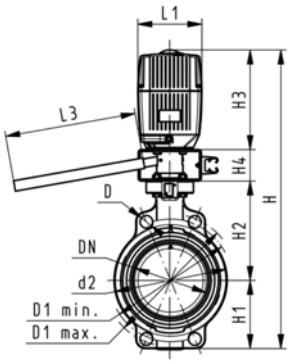
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

SYGEF Standard
Butterfly valve type 140 24V
With manual override

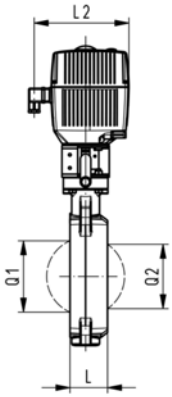
Model:

- Material: PVDF
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 24 V AC/DC
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180

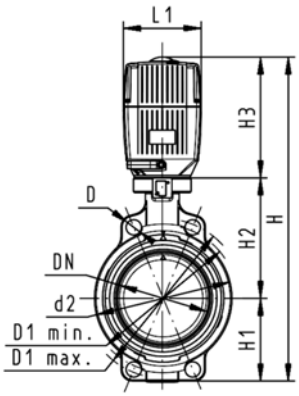


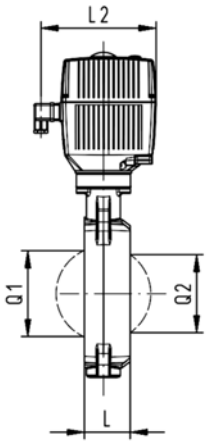
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

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

Model:
- Material: PVDF
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

Model with PTFE seal in DN250 and DN300 available from June 2009





d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	**199 140 582**	**199 140 642**
75	65	2 ½	10	2200	**199 140 583**	**199 140 643**
90	80	3	10	3000	**199 140 584**	**199 140 644**
110	100	4	10	6500	**199 140 585**	**199 140 645**
140	125	5	10	11500	**199 140 586**	**199 140 646**
160	150	6	10	16600	**199 140 587**	**199 140 647**
225	200	8	10	39600	**199 140 588**	**199 140 648**
280	250	10	6	55200	**199 140 589**	**199 140 649**
315	300	12	4	80000	**199 140 590**	**199 140 650**

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]	Q1 [mm]
63	EA-31	19	120.0	125.0	104	400	77	134	188	45	122	180	40
75	EA-31	19	139.7	145.0	115	413	83	140	188	46	122	180	54
90	EA-31	19	150.0	160.0	131	428	89	146	188	49	122	180	67
110	EA-31	19	175.0	190.5	161	460	104	167	188	56	122	180	88
140	EA-31	23	210.0	215.9	187	487	117	181	188	64	122	180	113
160	EA-31	24	241.3	241.3	215	508	130	189	188	72	122	180	139
225	EA-42	23	290.0	295.0	267	575	158	210	208	73	122	180	178
280	EA-42	25	353.0	362.0	329	677	205	264	208	113	122	180	210
315	EA-42	25	400.0	432.0	379	721	228	285	208	113	122	180	256

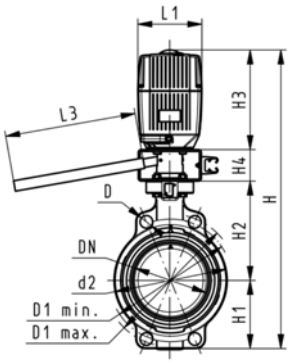
d [mm]	Q2 [mm]
63	
75	35
90	50
110	74
140	97
160	123
225	169
280	207
315	253

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

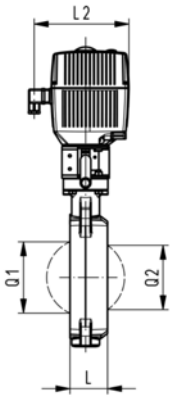
Model:

- Material: PVDF
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Voltage 100-230 V, 50-60 Hz
- Control time 15 s/90°<) EA31
- Control time 25s/90°<) EA42
- Control range 90°<)
- Actuator with integrated emergency manual override standard

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=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-42	23	290.0	295.0	267	635	158	210	208	60	73	122	180



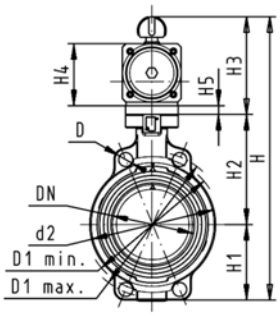
d [mm]	L3 [mm]	Q1 [mm]	Q2 [mm]
63	250	40	
75	250	54	35
90	250	67	50
110	250	88	74
140	250	113	97
160	250	139	123
225	250	178	169

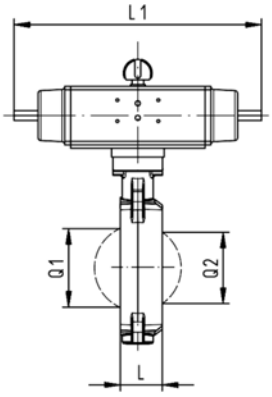
Butterfly valves pneumatic SYGEF®

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

Model:
- Material: PVDF
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

Model with PTFE seal in DN250 and DN300 available from June 2009





d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	**199 240 462**	**199 240 522**
75	65	2 ½	10	2200	**199 240 463**	**199 240 523**
90	80	3	10	3000	**199 240 464**	**199 240 524**
110	100	4	10	6500	**199 240 465**	**199 240 525**
140	125	5	10	11500	**199 240 466**	**199 240 526**
160	150	6	10	16600	**199 240 467**	**199 240 527**
225	200	8	10	39600	**199 240 468**	**199 240 528**
280	250	10	10	55200	**199 240 469**	**199 240 529**
315	300	12	10	80000	**199 240 470**	**199 240 530**

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
280	PA-65 FC	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FC	25	400.0	432.0	379	866	228	285	196	157		113	663

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169
280	137	210	207
315	145	256	253

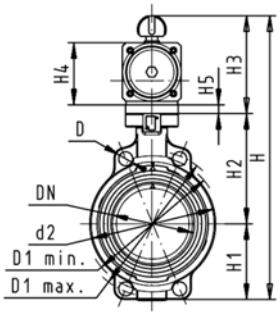
SYGEF® standard
Butterfly valve type 240
Function FO (Fail safe to open)
Without manual override

Model:

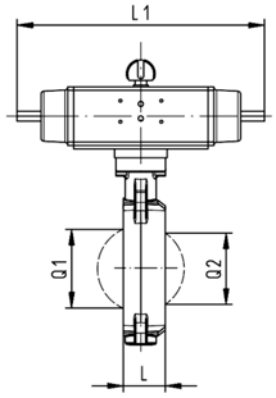
- Material: PVDF
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

Model with PTFE seal in DN250 and DN300 available from June 2009

d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	**199 240 482**	**199 240 542**
75	65	2 ½	10	2200	**199 240 483**	**199 240 543**
90	80	3	10	3000	**199 240 484**	**199 240 544**
110	100	4	10	6500	**199 240 485**	**199 240 545**
140	125	5	10	11500	**199 240 486**	**199 240 546**
160	150	6	10	16600	**199 240 487**	**199 240 547**
225	200	8	10	39600	**199 240 488**	**199 240 548**
280	250	10	10	55200	**199 240 489**	**199 240 549**
315	300	12	10	80000	**199 240 490**	**199 240 550**



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
280	PA-65 FO	25	353.0	362.0	329	808	205	264	191	148		113	648
315	PA-70 FO	25	400.0	432.0	379	866	228	285	196	157		113	663



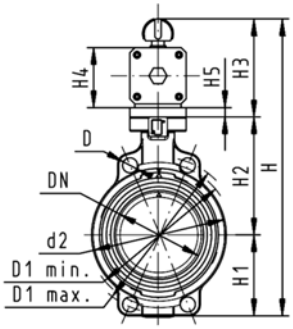
d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	65	40	
75	65	54	35
90	72	67	50
110	80	88	74
140	90	113	97
160	100	139	123
225	112	178	169
280	137	210	207
315	145	256	253

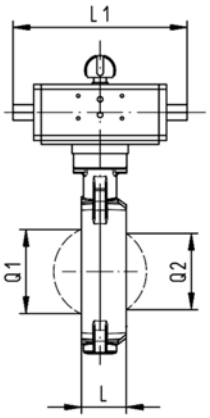
SYGEF Standard
Butterfly valve type 240
DA (Double acting)
Without manual override

Model:

- Material: PVDF
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°<)

Model with PTFE seal in DN250 and DN300 available from June 2009





d [mm]	DN [mm]	Inch	PN	kv-value (Δp=1 bar) [l/min]	FPM Code	PTFE Code
63	50	2	10	1470	**199 240 502**	**199 240 562**
75	65	2 ½	10	2200	**199 240 503**	**199 240 563**
90	80	3	10	3000	**199 240 504**	**199 240 564**
110	100	4	10	6500	**199 240 505**	**199 240 565**
140	125	5	10	11500	**199 240 506**	**199 240 566**
160	150	6	10	16600	**199 240 507**	**199 240 567**
225	200	8	10	39600	**199 240 508**	**199 240 568**
280	250	10	10	55200	**199 240 509**	**199 240 569**
315	300	12	10	80000	**199 240 510**	**199 240 570**

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	235
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	279
225	PA-55 DA	23	290.0	295.0	267	507	158	210	139	96		73	279
280	PA-65 DA	25	353.0	362.0	329	748	205	264	161	118		113	350
315	PA-70 DA	25	400.0	432.0	379	816	228	285	173	130		113	381

d [mm]	L2 [mm]	Q1 [mm]	Q2 [mm]
63	55	40	
75	55	54	35
90	60	67	50
110	65	88	74
140	72	113	97
160	80	139	123
225	90	178	169
280	112	210	207
315	125	256	253

Assembly parts for butterfly valves

Intermediate element

Pneumatic type 240 / 241 / 242
Without manual override

d [mm]	DN [mm]	Type of actuator	Code
63	50	PA30 FC/FO	**198 000 595**
63	50	PA35 DA	**198 000 595**
75	65	PA30 FC/FO	**198 000 595**
75	65	PA35 DA	**198 000 595**
90	80	PA40 DA	**198 000 595**
90	80	PA35 FC/FO	**198 000 596**
110	100	PA40 FC/FO	**198 000 600**
110	100	PA45 DA	**198 000 600**
140	125	PA45 DA	**198 000 600**
140	125	PA45 FC/FO	**198 000 597**
160	150	PA55 DA	**198 000 600**
160	150	PA50 FC	**198 000 599**
225	200	PA55 FC/FO	**198 000 598**
225	200	PA55 DA	**198 000 600**
280	250	FA65 FC/FO	**198 000 730**
280	250	PA65 DA	**198 000 731**
315	300	PA70 FC/FO	**198 000 730**
315	300	PA70 DA	**198 000 731**

Electric type 140 / 141 / 142
Without manual override

d [mm]	DN [mm]	Type of actuator	Code
63	50	EA31	**198 000 601**
75	65	EA31	**198 000 601**
90	80	EA31	**198 000 601**
110	100	EA31	**198 000 602**
140	125	EA31	**198 000 602**
160	150	EA31	**198 000 599**
225	200	EA42	**198 000 603**
280	250	EA42	**198 000 732**
315	300	EA42	**198 000 732**

Intermediate element

Electric type 140 / 141 / 142
With manual override

d-d [mm]	DN-DN [mm]	Type of actuator	Code
63 - 90	50 - 80	EA31	**198 000 623**
110 - 140	100 - 125	EA31	**198 000 624**
- 160	- 150	EA31	**198 000 625**
- 225	- 200	EA42	**198 000 627**

Gear operated with handwheel 567 / 568

d [mm]	DN [mm]	Code
63	50	**198 000 621**
75	65	**198 000 621**
90	80	**198 000 621**
110	100	**198 000 622**
140	125	**198 000 622**
160	150	**198 000 599**
225	200	**198 000 599**
280	250	**198 000 732**
315	300	**198 000 732**

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**

Reduction gear with handwheel

d [mm]	Inch	DN [mm]	Code
75	2 ½	65	**161 482 408**
90	3	80	**161 482 408**
110	4	100	**161 482 408**
125	4 ½	125	**161 482 408**
160	6	150	**161 482 408**
225	8	200	**161 482 408**
280	10	250	**161 483 462**
315	12	300	**161 483 462**

Electric actuator type EA31

Note:
- F07 (WS 17) per EN ISO 5211

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

Electric actuator type EA42

Note:
- F07 (WS 22) per EN ISO 5211

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

Pneumatic actuator type PA30 PA90
Fail safe to close/fail safe to open (FC/FO)

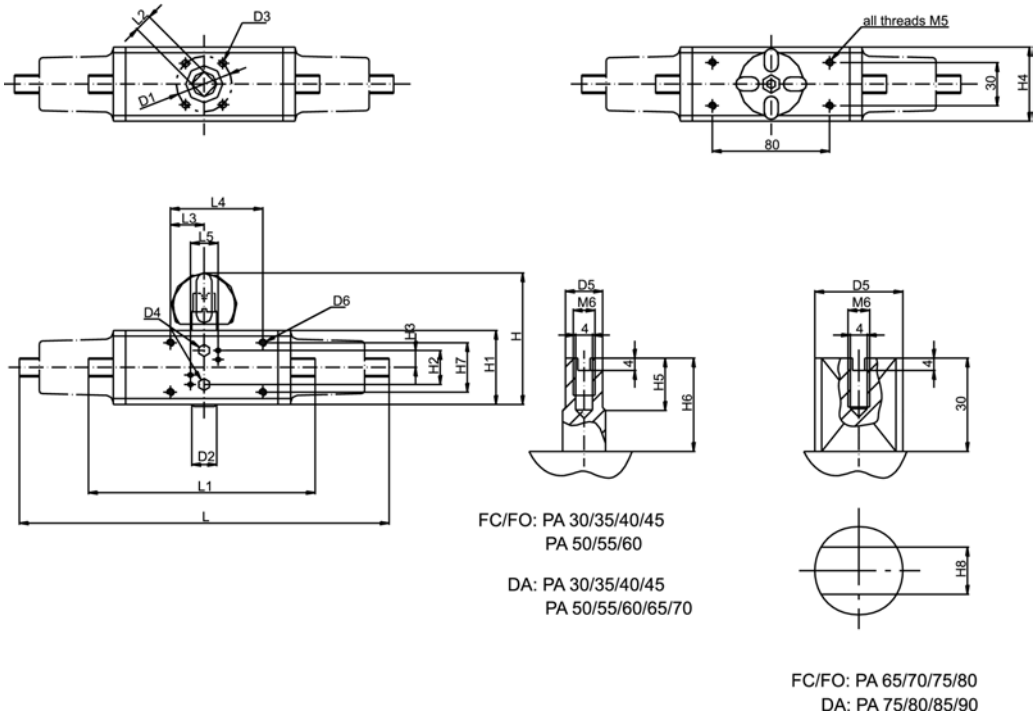
* Only valid for butterfly valve type 240, 241, 242 and ball valve type 230 - 235

Type	hard anodized Code	nickel plated Code	hard anodized with stroke limiter Code
PA 30 FC/FO	**198 800 757**	**198 800 034**	
* PA 30 FO	**198 811 025**		
PA 35 FC/FO	**198 800 037**	**198 800 052**	
* PA 35 FO	**198 811 026**		
PA 40 FC/FO	**198 800 728**	**198 800 004**	**198 800 017**
* PA 40 FO	**198 811 027**		
PA 45 FC/FO	**198 800 039**	**198 800 054**	**-**
* PA45 FO	**198 811 028**		
PA 50 FC/FO	**198 800 729**	**198 800 005**	**198 800 018**
* PA50 FO	**198 811 029**		
PA 55 FC/FO	**198 800 041**	**198 800 056**	**-**
* PA 55 FO	**198 811 030**		
PA 60 FC/FO	**198 800 730**	**198 800 006**	**198 800 019**
PA 65 FC/FO	**198 800 043**	**198 800 058**	**-**
PA 70 FC/FO	**198 800 731**	**198 800 007**	**198 800 020**
PA 70 FO	**198 811 198**		
PA 75 FC/FO	**198 800 045**	**198 800 060**	**-**
PA 80 FC/FO	**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]	H1 [mm]
PA 30 FC/FO	F04	42	30	M5x9	⅛	10	276	11	35	70	32	102	70
* PA 30 FO	F04	42	30	M5x9	⅛	10	276	11	35	70	32	102	70
PA 35 FC/FO	F05	50	35	M6x11	⅛	12	326	14	35	70	32	111	78
* PA 35 FO	F05	50	35	M6x11	⅛	12	326	14	35	70	32	111	78
PA 40 FC/FO	F05	50	35	M6x11	⅛	12	370	14	35	70	32	129	86
* PA 40 FO	F05	50	35	M6x11	⅛	12	370	14	35	70	32	129	86
PA 45 FC/FO	F07	70	55	M8x15	⅛	15	411	17	35	70	32	139	96
* PA45 FO	F07	70	55	M8x15	⅛	15	411	17	35	70	32	139	96
PA 50 FC/FO	F07	70	55	M8x15	⅛	15	423	17	35	70	32	149	106
* PA50 FO	F07	70	55	M8x15	⅛	15	423	17	35	70	32	149	106
PA 55 FC/FO	F10	102	70	M10x17	⅛	19	452	22	35	70	32	161	118
* PA 55 FO	F10	102	70	M10x17	⅛	19	452	22	35	70	32	161	118
PA 60 FC/FO	F10	102	70	M10x17	⅛	19	503	22	35	70	32	173	130
PA 65 FC/FO	F12	125	85	M12x21	¼		648	27			32	191	148
PA 70 FC/FO	F12	125	85	M12x21	¼		663	27			32	196	153
PA 70 FO	F12	125	85	M12x21	¼		663	27			32	196	153
PA 75 FC/FO	F14	140	100	M16x25	¼		824	36			32	229	186
PA 80 FC/FO	F14	140	100	M16x25	¼		918	36			32	241	198

Type	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]
PA 30 FC/FO	21	18	65	13	20	36	
* PA 30 FO	21	18	65	13	20	36	
PA 35 FC/FO	21	18	72	13	20	36	
* PA 35 FO	21	18	72	13	20	36	
PA 40 FC/FO	25	21	80	13	30	36	
* PA 40 FO	25	21	80	13	30	36	
PA 45 FC/FO	25	21	90	16	30	36	
* PA45 FO	25	21	90	16	30	36	
PA 50 FC/FO	25	26	100	17	30	36	
* PA50 FO	25	26	100	17	30	36	
PA 55 FC/FO	25	25	112	19	30	36	
* PA 55 FO	25	25	112	19	30	36	
PA 60 FC/FO	25	32	124	19	30	36	
PA 65 FC/FO	24	34	137				22

Type	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]	
PA 70 FC/FO	24	38	145				24	
PA 70 FO	24	38	145				24	
PA 75 FC/FO	24	43	166				27	
PA 80 FC/FO	24	44	180				32	



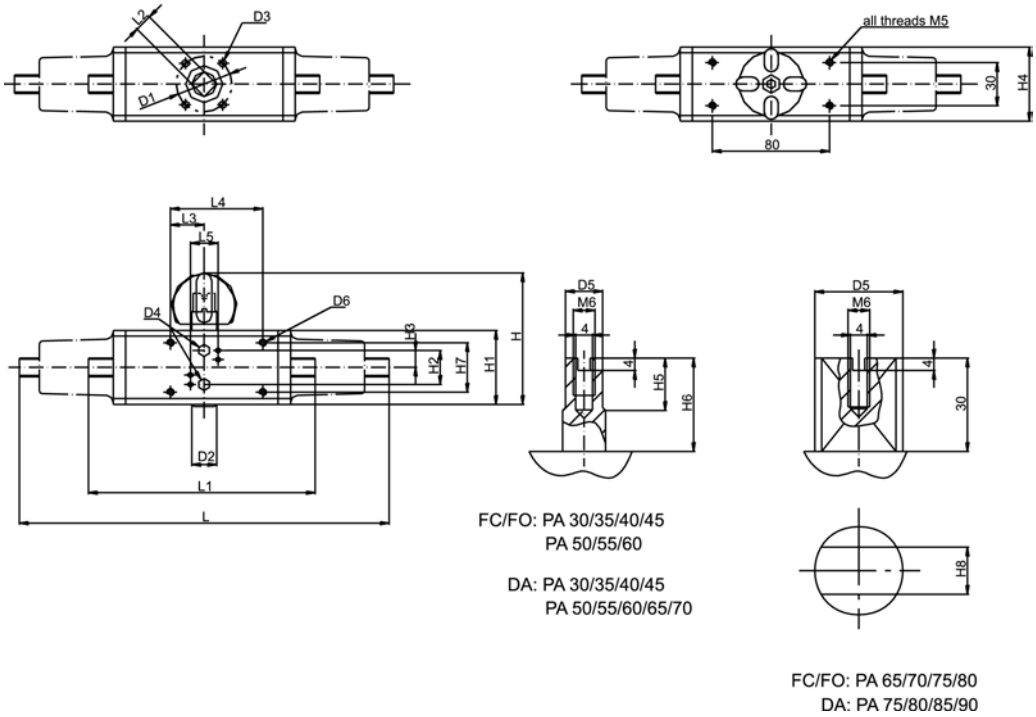
Pneumatic actuator type PA30 PA90
Double acting (DA)

Type	hard anodized Code
PA 30 DA	**198 800 737**
PA 35 DA	**198 800 758**
PA 40 DA	**198 800 759**
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**

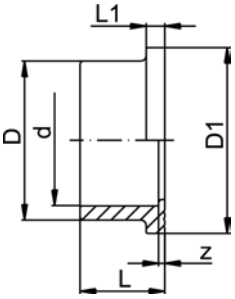
Type		D1 [mm]	D2 [mm]	D3[M] [mm]	D4 [inch]	D5 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]	H2 [mm]
PA 30 DA	F03	36	25	M5x9	⅛	9	177	9	35	70		92	60	25
PA 35 DA	F03	42	30	M5x9	⅛	10	190	11	35	70		98	66	25
PA 40 DA	F05	42	30	M5x9	⅛	10	198	11	35	70		102	70	21
PA 45 DA	F05	50	35	M6x11	⅛	12	235	14	35	70		111	78	21
PA 50 DA	F05	50	35	M6x11	⅛	12	250	14	35	70		129	86	25
PA 55 DA	F07	70	55	M8x15	⅛	15	279	17	35	70		139	96	25
PA 60 DA	F07	70	55	M8x15	⅛	15	341	17	35	70		149	106	25
PA 65 DA	F10	102	70	M10x17	⅛	19	350	22	35	70		161	118	25
PA 70 DA	F10	102	70	M10x17	⅛	19	381	22	35	70		173	130	25
PA 75 DA	F12	125	85	M12x21	¼		416	27			32	191	148	24
PA 80 DA	F12	125	85	M12x21	¼		466	27			32	197	153	24
PA 85 DA	F14	140	100	M16x25	¼		555	36			32	229	186	24
PA 90 DA	F14	140	100	M16x25	¼		581	36			32	241	198	24

Type	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]
PA 30 DA	12	55	10	20	36	
PA 35 DA	13	60	13	20	36	
PA 40 DA	18	65	13	20	36	
PA 45 DA	18	72	13	20	36	
PA 50 DA	21	80	13	30	36	
PA 55 DA	21	90	16	30	36	
PA 60 DA	26	100	17	30	36	
PA 65 DA	25	112	19	30	36	
PA 70 DA	32	124	19	30	36	

Type	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]	
PA 75 DA	34	137				22	
PA 80 DA	38	145				24	
PA 85 DA	43	166				27	
PA 90 DA	44	180				32	



Flange Adaptor



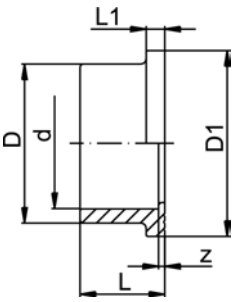
Flange Adaptor, PVC-U
Combined Jointing face flat and serrated, metric

Model:

- Solvent cement socket metric
- d16 - d50: Jointing face flat
- d63 - d400: Combined Jointing face flat and serrated
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07 or
  Flat gasket EPDM No. 48 40 03
  Only use O-ring EPDM No. 48 41 01, FPM No. 49 41 01 in combination with counterpart Flange Adaptor No. 21 81 01
- Flange: PVC-U No. 21 70 00, PP with steel ring No. 27 70 02, Backing Flange PP-V for socket systems metric No. 27 70 04

Note: The flat gasket affects the maximum allowable operating pressure!

d [mm]	d [inch]	DN [mm]	PN	Code	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
63		50	16	**721 790 111**	3	77	90	41	9
75	2 ½	65	16	**721 790 112**	3	91	106	47	10
90		80	16	**721 790 113**	5	108	125	56	11
110		100	16	**721 790 114**	5	131	150	66	12
140	5	125	16	**721 790 116**	5	165	188	81	14
160		150	16	**721 790 117**	5	188	213	91	16
225		200	10	**721 790 120**	6	248	274	125	25
280		250	10	**721 790 122**	5	308	329	151	23
315		300	6	**721 790 123**	8	346	379	172	27

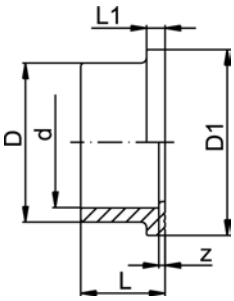


PVC-C
Flange adaptor PVC-C
Jointing face flat / serrated metric

Model:

- Solvent cement socket metric

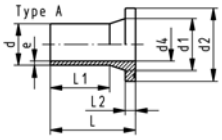
d [mm]	DN [mm]	PN	Code	z [mm]	D [mm]	D1 [mm]	L [mm]	L1 [mm]
63	50	16	**723 790 111**	3	76	90	41	9
75	65	16	**723 790 112**	3	91	106	47	10
90	80	16	**723 790 113**	5	108	125	56	11
110	100	16	**723 790 114**	5	131	150	66	12
160	150	16	**723 790 117**	5	188	213	91	16
225	200	10	**723 790 120**	6	248	274	125	25

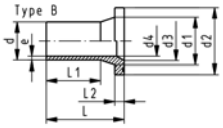


ABS
Flange adaptor ABS metric
Jointing face flat / serrated metric

Model:
- Solvent cement socket metric

d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	L [mm]	L1 [mm]	z [mm]
63	50	10	**729 790 111**	76	90	41	9	3
75	65	10	**729 790 112**	91	106	47	10	3
90	80	10	**729 790 113**	108	125	56	11	5
110	100	10	**729 790 114**	131	150	66	12	5
140	125	10	**729 790 116**	165	188	81	14	5
160	150	10	**729 790 117**	188	213	91	16	5
225	200	10	**729 790 120**	248	274	125	25	6



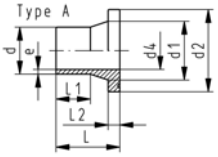


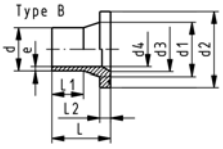
Flange Adaptor LS, PE100 SDR11
Combined Jointing Face:
Flat and serrated

Model:
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric **(from d110 also to ANSI/ASME B16.5)**
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 10 bar Gas / 16 bar Water

* Type B with chamfer

d [mm]	DN [mm]	FM	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
63	50	IR	**753 800 011**	75	102		51	98	69	14	5.8
* 75	65	IR	**753 800 012**	89	122	66	61	125	89	16	6.8
* 90	80	IR	**753 800 013**	105	138	78	73	140	103	17	8.2
* 110	100	IR	**753 800 014**	125	158	100	90	160	114	18	10.0
* 140	125	IR	**753 800 016**	155	188	127	114	200	147	25	12.7
* 160	150	IR	**753 800 017**	175	212	151	130	200	147	25	14.6
* 225	200	IR	**753 800 020**	235	268	210	184	200	138	32	20.5
* 280	250		**753 800 022**	291	320	265	229	231	144	35	25.4
* 315	300		**753 800 023**	335	370	300	257	239	158	35	28.6



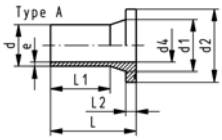


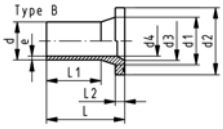
Flange Adaptor, PE100 S5/SDR11 Jointing Face, combination serrated / flat metric

Model:
- Conventional butt-welding according to DVS 2207 part 1
- Up to d315, suitable for most common butterfly valves incl. type 567, 568 and 037
- For butterfly valves ≥DN350, please choose flange adaptor no. 53 79 88
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 10 bar Gas / 16 bar Water

* Type B with chamfer

d [mm]	DN [mm]	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
* 280	250	**753 798 827**	291	320	265	229	119	69	35	25,4
* 315	300	**753 798 828**	335	370	300	257	166	88	35	28,6



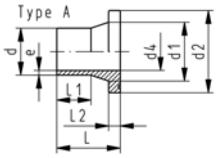


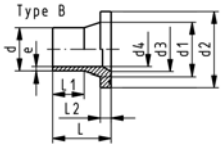
Flange Adaptor LS, PE100 SDR17/17.6 Combined Jointing Face: Flat and serrated

Model:
- For butt-, IR Plus® and electrofusion
- Suitable for flange connections to metric **(from d110 also to ANSI/ASME B16.5)**
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 5 bar Gas / 10 bar Water

* Type B with chamfer

d [mm]	DN [mm]	FM	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
63	50		**753 800 086**	75	102		55	120	65	14	3.8
75	65		**753 800 087**	89	122		66	130	75	16	4.5
90	80		**753 800 088**	105	138		79	140	103	17	5.4
110	100	IR	**753 800 089**	125	158		96	160	117	18	6.6
* 140	125	IR	**753 800 091**	155	188	127	123	200	147	25	8.3
* 160	150	IR	**753 800 092**	175	212	158	141	200	147	25	9.5
* 225	200	IR	**753 800 095**	235	268	210	198	200	138	32	13.4
* 280	250		**753 800 097**	291	320	265	246	230	154	25	16.6
* 315	300		**753 800 098**	335	370	300	277	242	166	25	18.7





Flange Adaptor, PE100 S8,3/SDR 17/17.6 Jointing Face, combination serrated / flat metric

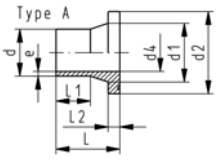
Model:

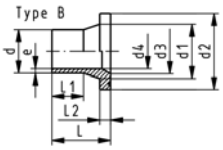
- Conventional butt-welding according to DVS 2207 part 1
- Up to d315, suitable for most common butterfly valves incl. type 567, 568 and 037
- For butterfly valves ≥DN350, please choose flange adaptor no. 53 79 88
- Gasket: Profile flange gasket NBR No. 45 44 07, EPDM No. 48 44 07
- 5 bar Gas / 10 bar Water

* Type B with chamfer

d [mm]	DN [mm]	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
* 280	250	**753 798 852**	291	320	265	246	119	69	25	16,6
* 315	300	**753 798 853**	335	370	300	277	164	86	25	18,7

*





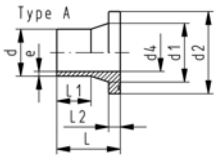
PROGEF Standard, Flange Adaptor, S5/SDR11 Combined Jointing Face: Flat and Serrated

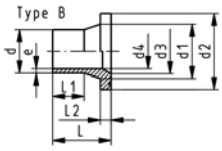
Model:

- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Please choose fusion parameters: PP-H
- Suitable for flange connections to metric **(from d110 also to ANSI/ASME B16.5)**
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

* Type B with chamfer

d [mm]	DN [mm]	FM	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
63	50	IR	**727 798 711**	75	102		51	68	38	14	5.8
* 75	65	IR	**727 798 712**	89	122	66	61	80	43	16	6.9
* 90	80	IR	**727 798 713**	105	138	78	73	80	41	17	8.2
* 110	100	IR	**727 798 714**	125	158	100	90	80	40	18	10.0
* 140	125	IR	**727 798 716**	155	188	127	114	89	39	25	12.8
* 160	150	IR	**727 798 717**	175	212	151	131	92	45	25	14.6
* 225	200	IR	**727 798 720**	235	268	210	184	100	35	32	20.5
* 280	250		**727 798 722**	291	320	265	229	100	35	35	25.4
* 315	300		**727 798 723**	335	370	300	257	100	35	35	28.6





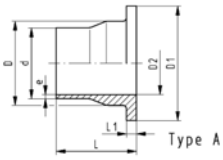
PROGEF Standard, Flange Adaptor, S8.3/SDR17.6 Combined Jointing Face: Flat and Serrated

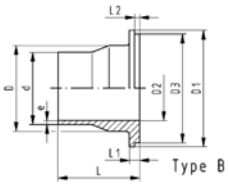
Model:

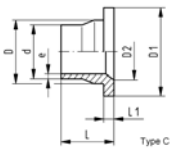
- Material: PP-H
- Conventional butt-welding according to DVS 2207 part 11
- IR = Infrared-(IR Plus®) compatible. Please choose fusion parameters: PP-H
- Suitable for flange connections to metric **(from d110 also to ANSI/ASME B16.5)**
- Up to d315, suitable for butterfly valve type 567,568 and 037
- Gasket: Profile flange gasket EPDM No. 48 44 07, FPM No. 49 44 07

* Type B with chamfer

d [mm]	DN [mm]	FM	Code	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	L1 [mm]	L2 [mm]	e [mm]
63	50	IR	**727 798 786**	75	102		53	50	16	14	3.8
75	65	IR	**727 798 787**	89	122		65	80	43	16	4.5
90	80	IR	**727 798 788**	105	138		78	80	41	17	5.4
110	100	IR	**727 798 789**	125	158		96	80	40	18	6.6
* 140	125	IR	**727 798 791**	155	188	127	120	80	34	18	8.3
* 160	150	IR	**727 798 792**	175	212	158	142	92	45	25	9.1
* 225	200	IR	**727 798 795**	235	268	210	199	100	35	32	12.8
* 280	250		**727 798 797**	291	320	265	243	100	45	25	16.6
* 315	300		**727 798 798**	335	370	300	274	100	35	25	18.7







SYGEF® standard Flange adaptor PVDF Jointing face flat / serrated

Model:

- In connection with +GF+ butterfly valves, chamfered and ready for use

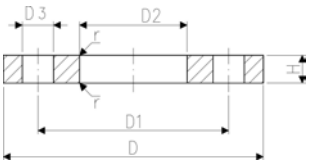
d [mm]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	e [mm]	L [mm]	L1 [mm]	L2 [mm]	Type
63	50	16	**735 798 811**	75	102	56		3.0	72	9		A
75	65	16	**735 798 812**	89	122	66		3.6	80	10		A
90	80	16	**735 798 813**	105	138	78	133	4.3	81	12	4	B
110	100	16	**735 798 814**	125	158	100		5.3	81	13		C
140	125	16	**735 798 816**	155	188	127		6.7	90	16		C
160	150	16	**735 798 817**	175	212	151		7.7	93	17		C
225	200	16	**735 798 820**	235	268	207		10.8	102	22		C

Flange

Backing Flange, PVC-U metric

Model:
- For socket systems
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- Maximum medium- or ambient temperature 45 °C
- **Bolt circle PN 10**

[1] Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100
[2] Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250
AL: number of holes

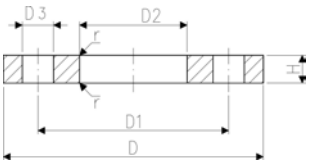


d [mm]	DN [mm]	Inch	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	r [mm]	AL	SC
63	50	2	10	**721 700 011**	165	125	78	18	18	3	4	M16
75	65	2 ½	10	**721 700 012**	185	145	92	18	19	3	4	M16
90	80	3	10	**721 700 013**	200	160	110	18	20	3	8	M16
110	100	4	10	**721 700 014**	220	180	133	18	22	3	8	M16
140	125	5	10	**721 700 016**	250	210	167	18	26	4	8	M16
160	150	6	10	**721 700 017**	285	240	190	22	28	4	8	M20
225	200	8	10	**721 700 020**	340	295	250	22	32	4	8	M20
280	250	10	6	**721 700 137**	395	350	310	22	36	4	12	M20
315	300	12	6	**721 700 138**	445	400	348	22	36	4	12	M20

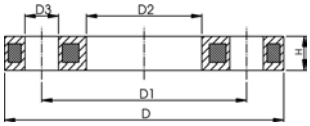
Backing flange PVC-U Inch ASTM / ANSI

Model:
- For socket systems
- For Flange Adaptors BS/ANSI
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, 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
	50	2	10	**721 702 211**	165	121	78	19	18	3	4
	65	2 ½	10	**721 702 212**	185	140	92	19	19	3	4
	80	3	10	**721 702 213**	200	152	110	19	20	3	4
	100	4	10	**721 702 214**	220	190	138	19	22	3	8
* 110	100	4	10	**161 483 180**	220	190	133	19	22	3	8
	125	5	10	**721 702 216**	250	216	167	22	26	4	8
	150	6	10	**721 702 217**	285	241	200	22	28	4	8
	200	8	10	**721 702 220**	340	298	250	22	32	4	8

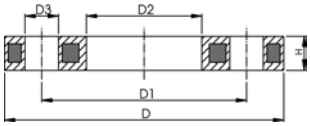


Backing Flange, PP/Steel for Socket Systems metric

Model:
- PP-GF (30% glass-fibre reinforced) with steel ring
- Connecting dimension: ISO 7005, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

[1] Connecting dimension: ISO 2536, bolt circle acc. DN125, suitable for flange adaptor d125/DN100
[2] Connecting dimension: ISO 2536, bolt circle acc. DN225, suitable for flange adaptor d250/DN250
AL: number of holes

d [mm]	d [inch]	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
63		50	16	**727 700 211**	165	125	78	18	20	4	M16
75		65	16	**727 700 212**	185	145	92	18	20	4	M16
90		80	16	**727 700 213**	200	160	110	18	20	8	M16
110		100	16	**727 700 214**	220	180	133	18	20	8	M16
140		125	16	**727 700 216**	250	210	167	18	24	8	M16
160	6	150	16	**727 700 217**	285	240	190	22	24	8	M20
225		200	16	**727 700 220**	340	295	250	22	27	8	M20
280		250	16	**727 700 222**	395	350	310	22	30	12	M20
315		300	16	**727 700 223**	445	400	348	22	34	12	M20



Backing flange PP/Steel For socket systems Inch/ASTM

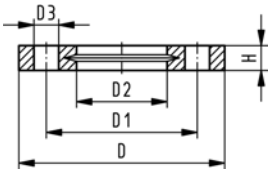
Model:
- For socket systems
- For Flange Adaptors BS/ANSI
- Material: PP (30 % glass-fibre reinforced) with steel ring
- Connecting dimension ANSI/ASME B 16.5 / ASTM D 4024
- DN100 and DN150: only for use with original metric flange adaptors

d [mm]	DN [mm]	Inch	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL
63	50		16	**727 701 211**	165				18	4
75	65		16	**727 701 212**	185				18	4
90	80		16	**727 701 213**	200				20	4
110	100		16	**727 701 214**	229				20	8
200	200		16	**727 701 220**	340				27	8

Backing Flanges, PP-V for Butt Fusion 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, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes

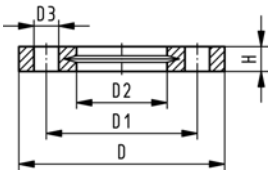


d [mm]	Inch	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
[1] 63		50	16	**727 700 411**	165	125	78	18	24	4	M16
[1] 75		65	16	**727 700 412**	185	145	92	18	26	4	M16
90		80	16	**727 700 513**	200	160	108	18	27	8	M16
125		100	16	**727 700 515**	220	180	135	18	28	8	M16
140		125	16	**727 700 516**	250	210	158	18	30	8	M16
160	6	150	16	**727 700 517**	285	241	178	22	32	8	M20
225	9	200	16	**727 700 520**	340	295	238	22	34	8	M20
280		250	16	**727 700 522**	395	350	294	22	38	12	M20
315		300	16	**727 700 523**	445	400	338	22	42	12	M20

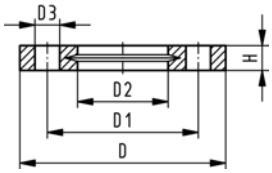
Backing Flanges, PP-V for Socket Systems metric

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, EN 1092, BS 4504, DIN 2501
- **Bolt circle PN 10**

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes



d [mm]	Inch	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
[1] 63		50	16	**727 700 411**	165	125	78	18	24	4	M16
[1] 75		65	16	**727 700 412**	185	145	92	18	26	4	M16
90		80	16	**727 700 413**	200	160	110	18	27	8	M16
110		100	16	**727 700 414**	220	180	133	18	28	8	M16
140		125	16	**727 700 416**	250	210	167	18	30	8	M16
160	6	150	16	**727 700 417**	285	241	190	22	32	8	M20
225	8	200	16	**727 700 420**	340	295	250	22	34	8	M20
280		250	16	**727 700 422**	395	350	310	22	38	12	M20
315		300	16	**727 700 423**	445	400	348	22	42	12	M20



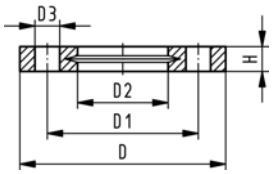
Backing Flanges, PP-V for Butt Fusion Systems Inch/ANSI

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
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes

Inch	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
[1] 2	50	16	**727 701 411**	165	121	78	19	24	4	M16
[1] 2 ½	65	16	**727 701 412**	185	140	92	19	26	4	M16
3	80	16	**727 701 513**	200	152	108	19	27	4	M16
4	100	16	**727 701 514**	229	190	128	19	28	8	M16
6	150	16	**727 700 517**	285	241	178	22	32	8	M20
9	200	16	**727 700 520**	340	295	238	22	34	8	M20
10	250	16	**727 701 522**	406	362	294	26	38	12	M20
12	300	16	**727 701 523**	483	432	338	26	42	12	M20



Backing Flanges, 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
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- **Bolt circle class 150**

[1]) Suitable for socket- and butt fusion systems (no pictograph on flange)
AL: number of holes

Inch	DN [mm]	PN	Code	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	AL	SC
[1] 2	50	16	**727 701 411**	165	121	78	19	24	4	M16
[1] 2 ½	65	16	**727 701 412**	185	140	92	19	26	4	M16
3	80	16	**727 701 413**	200	152	110	19	27	4	M16
4	100	16	**727 701 414**	229	190	133	19	28	8	M16
6	150	16	**727 700 417**	285	241	190	22	32	8	M20
8	200	16	**727 700 420**	340	295	250	22	34	8	M20
10	250	16	**727 701 422**	406	362	310	26	38	12	M20
12	300	16	**727 701 423**	483	432	348	26	42	12	M20

Integrated Position Indicator

Integrated position indicator Automatic AU

Size	DN-DN [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

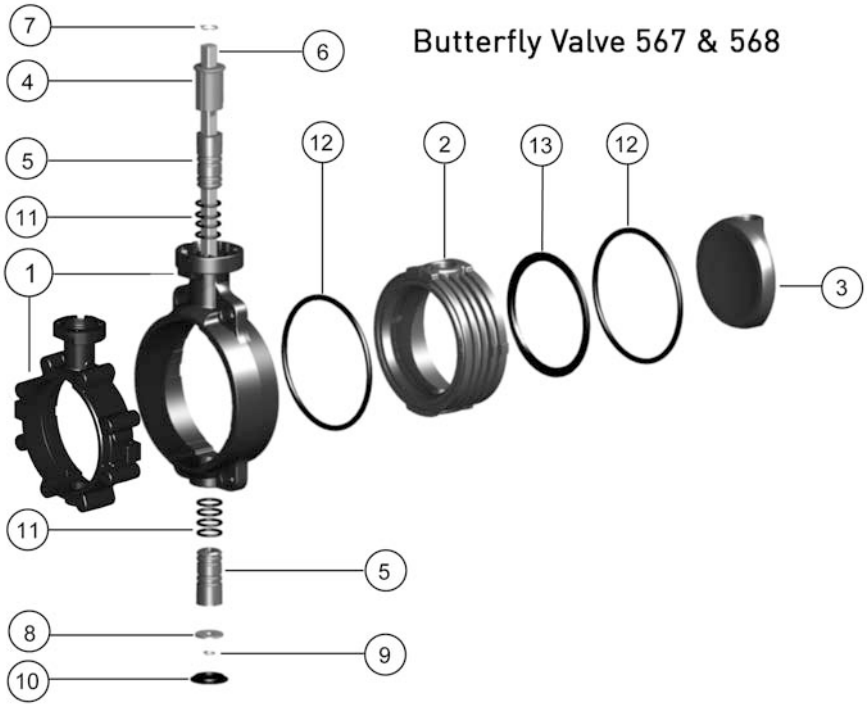
Size	DN-DN [mm]	Code
1	50 - 80	**161 486 856**
2	100 - 125	**161 486 302**
3	150 - 200	**161 486 007**

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 butterfly valves

Spare parts butterfly valve type 567/568



Inner body

Model:

- Inner body consisting of: inner body (2) and profile seal (13)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
63	2	50	**161 486 861**	**161 486 873**	**163 481 591**	**163 481 603**	**169 481 067**
75	2 ½	65	**161 486 862**	**161 486 874**	**163 481 592**	**163 481 604**	**169 481 068**
90	3	80	**161 486 863**	**161 486 875**	**163 481 593**	**163 481 605**	**169 481 069**
110	4	100	**161 486 864**	**161 486 876**	**163 481 594**	**163 481 606**	**169 481 070**
140	5	125	**161 486 865**	**161 486 877**	**163 481 595**	**163 481 607**	**169 481 071**
160	6	150	**161 486 866**	**161 486 878**	**163 481 596**	**163 481 608**	**169 481 072**
225	8	200	**161 486 867**	**161 486 879**	**163 481 597**	**163 481 609**	**169 481 073**
280	10	250	**161 486 868**	**161 486 880**			
315	12	300	**161 486 869**	**161 486 881**			

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
63	2	50	**167 484 271**	**167 484 286**	**175 483 413**
75	2 ½	65	**167 484 272**	**167 484 287**	**175 483 414**
90	3	80	**167 484 273**	**167 484 288**	**175 483 415**
110	4	100	**167 484 274**	**167 484 289**	**175 483 416**
140	5	125	**167 484 275**	**167 484 290**	**175 483 417**
160	6	150	**167 484 276**	**167 484 291**	**175 483 418**
225	8	200	**167 484 277**	**167 484 292**	**175 483 419**
280	10	250	**167 484 278**	**167 484 293**	**175 483 420**
315	12	300	**167 484 279**	**167 484 294**	**175 483 421**

Flange seal (12)

Model:
- included in delivery 2 pcs.

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
63	2	50	**161 486 959**	**161 486 979**
75	2 ½	65	**161 486 960**	**161 486 980**
90	3	80	**161 486 961**	**161 486 981**
110	4	100	**161 486 962**	**161 486 982**
125	5	125	**161 486 963**	**161 486 983**
160	6	150	**161 486 964**	**161 486 984**
225	8	200	**161 486 965**	**161 486 985**
280	10	250	**161 486 966**	**161 486 986**
315	12	300	**161 486 967**	**161 486 987**

Disc (3)

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code
63	2	50	**161 490 889**	**163 481 451**	**169 480 951**	**167 483 226**	**175 483 251**
75	2 ½	65	**161 490 890**	**163 481 452**	**169 480 952**	**167 483 227**	**175 483 252**
90	3	80	**161 490 891**	**163 481 453**	**169 480 953**	**167 483 228**	**175 483 253**
110	4	100	**161 490 892**	**163 481 454**	**169 480 954**	**167 483 229**	**175 483 254**
140	5	125	**161 490 893**	**163 481 455**	**169 480 955**	**167 483 230**	**175 483 255**
160	6	150	**161 490 894**	**163 481 456**	**169 480 956**	**167 483 231**	**175 483 256**
225	8	200	**161 490 895**	**163 481 457**	**169 480 957**	**167 483 232**	**175 483 257**
280	10	250	**161 490 896**			**167 483 233**	**175 483 258**
315	12	300	**161 490 897**			**167 483 234**	**175 483 259**

Bearing bush (5, 11)

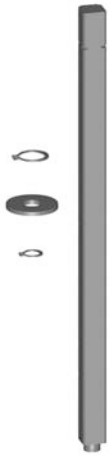
Model:
- included in delivery 2 pcs.
- With O-ring

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	PP-H EPDM Code
63	2	50	**161 486 886**	**161 486 892**	**163 481 576**	**163 481 582**	**167 484 259**
75	2 ½	65	**161 486 886**	**161 486 892**	**163 481 576**	**163 481 582**	**167 484 259**
90	3	80	**161 486 886**	**161 486 892**	**163 481 576**	**163 481 582**	**167 484 259**
110	4	100	**161 486 887**	**161 486 893**	**163 481 577**	**163 481 583**	**167 484 260**
140	5	125	**161 486 887**	**161 486 893**	**163 481 577**	**163 481 583**	**167 484 260**
160	6	150	**161 486 888**	**161 486 894**	**163 481 578**	**163 481 584**	**167 484 261**
225	8	200	**161 486 888**	**161 486 894**	**163 481 578**	**163 481 584**	**167 484 261**
280	10	250	**161 486 889**	**161 486 895**			**167 484 262**
315	12	300	**161 486 889**	**161 486 895**			**167 484 262**

d [mm]	Inch	DN [mm]	PP-H FPM Code	PVDF FPM Code
63	2	50	**167 484 265**	**175 483 426**
75	2 ½	65	**167 484 265**	**175 483 426**
90	3	80	**167 484 265**	**175 483 426**
110	4	100	**167 484 266**	**175 483 427**
140	5	125	**167 484 266**	**175 483 427**
160	6	150	**167 484 267**	**175 483 428**
225	8	200	**167 484 267**	**175 483 428**
280	10	250	**167 484 268**	**175 483 429**
315	12	300	**167 484 268**	**175 483 429**

End stopp PP glasfiber reinforced (4)

d [mm]	Inch	DN [mm]	Code
63	2	50	**167 483 251**
75	2 ½	65	**167 483 251**
90	3	80	**167 483 251**
110	4	100	**167 483 252**
140	5	125	**167 483 252**
160	6	150	**167 483 253**
225	8	200	**167 483 253**
280	10	250	**167 483 254**
315	12	300	**167 483 254**



Shaft set

Model:

- Shaft set consisting of: shaft chrom steel 1.4301 AISI 304 (6), retention ring (7, 9) and washer (8)

d [mm]	Inch	DN [mm]	Code
63	2	50	**161 486 899**
75	2 ½	65	**161 486 900**
90	3	80	**161 486 901**
110	4	100	**161 486 902**
140	5	125	**161 486 903**
160	6	150	**161 486 904**
225	8	200	**161 486 905**
280	10	250	**161 486 906**
315	12	300	**161 486 907**

Hand lever

d [mm]	Inch	DN [mm]	with index plate Code	with fine adjustment Code
63	2	50	**161 486 690**	**161 486 325**
75	2 ½	65	**161 486 690**	**161 486 325**
90	3	80	**161 486 690**	**161 486 325**
110	4	100	**161 486 691**	**161 486 326**
140	5	125	**161 486 691**	**161 486 326**
160	6	150	**161 486 694**	**161 486 327**
225	8	200	**161 486 695**	**161 486 328**
280	10	250	**161 486 697**	
315	12	300	**161 486 697**	

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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

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 importlicences 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

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 (EX WORKS, 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

All cases of breach of contract and the relevant consequences as well as all rights and claims on the part of the customer, irrespective on 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

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.

7/2005

GF Piping Systems → worldwide at home

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

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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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