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Technical Datasheet

Type 567/578 Butterfly Valve



The butterfly valve type 567/578 is designed for shutoff and control functions in water treatment, chemical processing, chemical trade, galvanization, power plants, microelectronics, food and beverage, and shipbuilding applications. It is suitable for liquids, gases, and conditionally for media containing solids or viscous fluids.

- Lightweight thermoplastic design reduces installation effort and transportation costs
- Direct replacement for metal valves with same installation length
- Modular wafer-style (type 567) and lug-style (type 578) for flexible system integration
- Corrosion- and abrasion-resistant for long service life and minimal maintenance
- Manual, electric, or pneumatic operation

Technical data

Specifications		Type 567	Type 578
			
Body type		Wafer-Style	Lug-Style
Dimensions		d63/DN50 – d600/DN600, 2" – 24"	d63/DN50 – d315/DN300, 2" – 12"
Materials	Hand lever clip, lever, grid lever, grid element, end stop, outer housing	PP-GF30	
	Bearing bush, inner housing, disc	PVC-U, PVC-C, ABS, PP-H, PVDF	
	O-ring, flange seal, profile seal	EPDM, FKM, PTFE/FKM	
	Cap	PE	
	Lever insert	PPS	
	Screw, spring, washer, nut, shaft, circlip, threaded inserts	Stainless steel	
	Screw, spring, washer, nut, shaft, circlip, threaded inserts		
Pressure ratings	Manually operated	DN50-DN300: PN10 DN350-DN400 PN6 DN450: PN5 ≥ DN500: PN4	
	Electric actuated	DN50-DN200: PN10 DN250: PN6 ≥ DN300: PN4	
	Pneumatic actuated	DN50-DN250: PN10 DN300-DN450 PN5 ≥ DN500: PN4	
Flow media		Neutral and aggressive media with a small amount of particles/solids. The chemical resistance depends on the selected material (see online tool ChemRes PLUS).	
		• Very well suited for liquid media • Suited for gaseous media • Conditionally suited for media containing solids • Conditionally suited for viscous media	
Connections	Flanges	PVC-U, PVC-C, ABS, PP-H, PVDF, PE according to 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	
	Flange adapters	PVC-U, PVC-C, ABS, PP-H SDR 11: PE100 SDR 11 or 17.6, PVDF	
	Backing flanges	PVC-U, PP	
Actuation variants	Manually operated	Lockable hand lever or Reduction gear with handwheel	
	Electric actuated	100 – 230 V, AC/DC: 24 V	
	Pneumatic actuated	FC; FO; DA	
Actuator interface		EN ISO 5211	
Installation length		ISO 5752 / EN 558 DN50-200 Series 25, DN250-300 Series 16	
Flange standards		EN 1092 PN 10, ASME B16.5 Class 150, BS 1560-3.2 Class 150, JIS B2220 10K	
Markings		CE, UKCA	
Product Standard		EN ISO 16136	
Test Standard		ISO 9393-2, EN 12266-1 (leakage rate A)	
Approvals		ABS, DIBt, BV, DNV, FDA, SIL, KR	

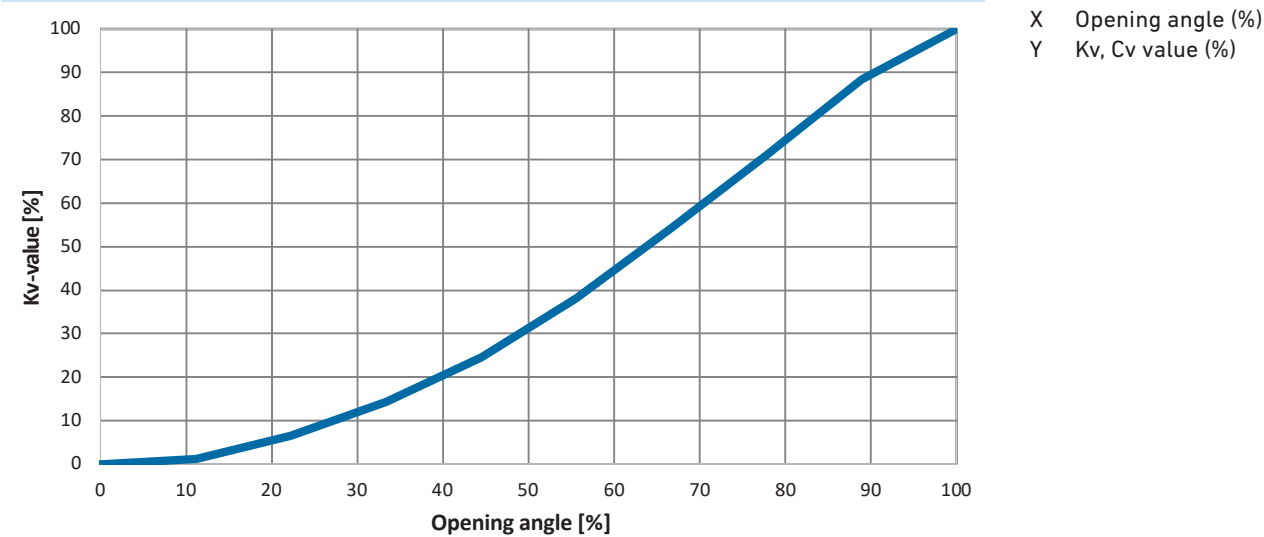


Flow characteristics

Kv 100 values

DN (mm)	d (mm)	Inch (inch)	Kv 100 (l/min)	Cv 100 (US gal/min)	Kv 100 (m³/h)
50	63	2	740	52	44
65	75	2 ½	1'500	105	90
80	90	3	2'400	168	144
100	110	4	3'800	266	228
125	140	5	8'600	602	516
150	160	6	11'400	798	684
200	225	8	19'900	1'393	1'194
250	280	10	34'000	2'380	2'040
300	315	12	50'000	3'500	3'000
350	355	14	90'000	6'300	5'400
400	400	16	115'000	8'050	6'900
450	450	18	155'000	10'850	9'300
500	500	20	204'000	14'280	12'240
600	630	24	265'000	18'550	15'900

Flow characteristics



Pressure-temperature diagrams

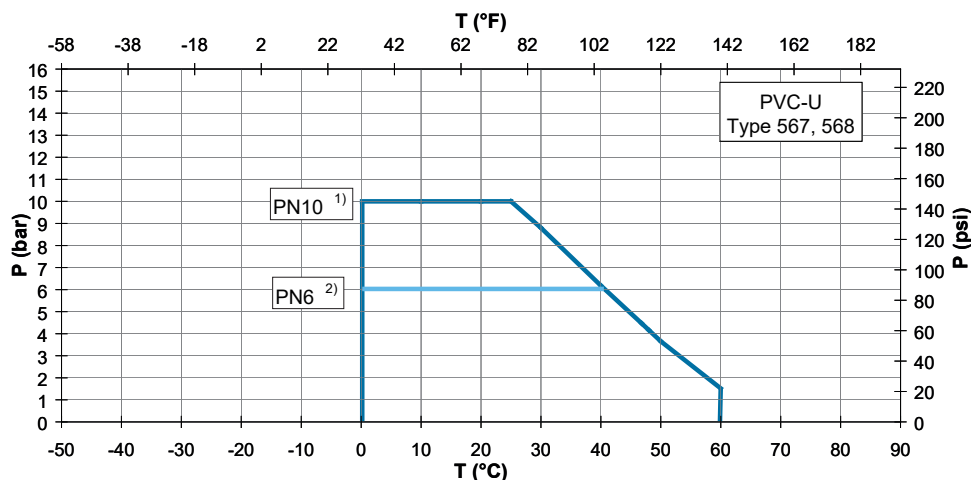
The following pressure-temperature diagrams are based on a service life of 25 years and water or similar media.

T Temperature (°C, °F)

P Permissible pressure (bar, psi)

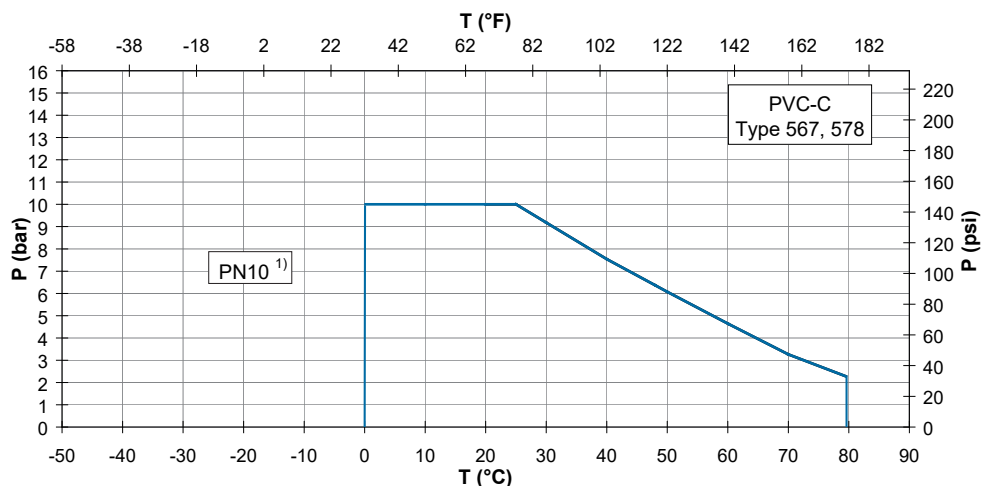
PVC-U (DN50 – DN300)

¹⁾ DN50 – DN300



PVC-C (DN50 – DN300)

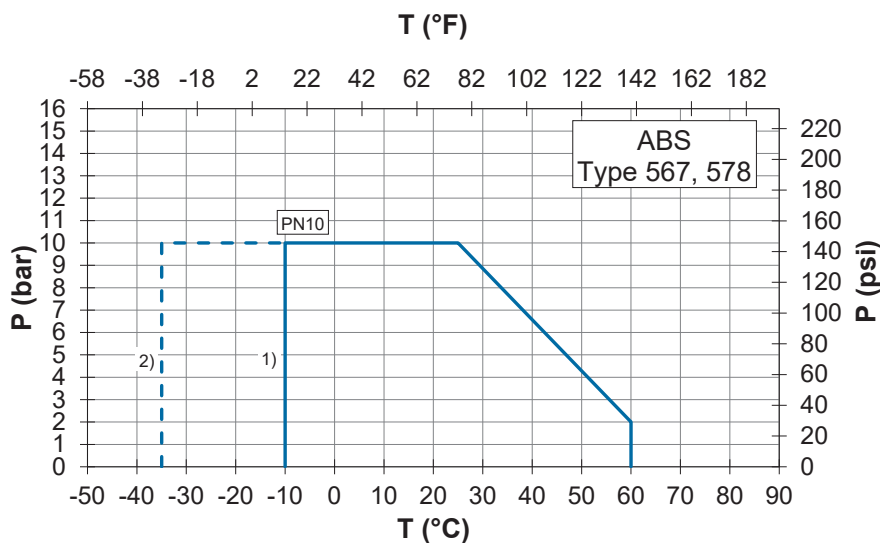
¹⁾ DN50 – DN300



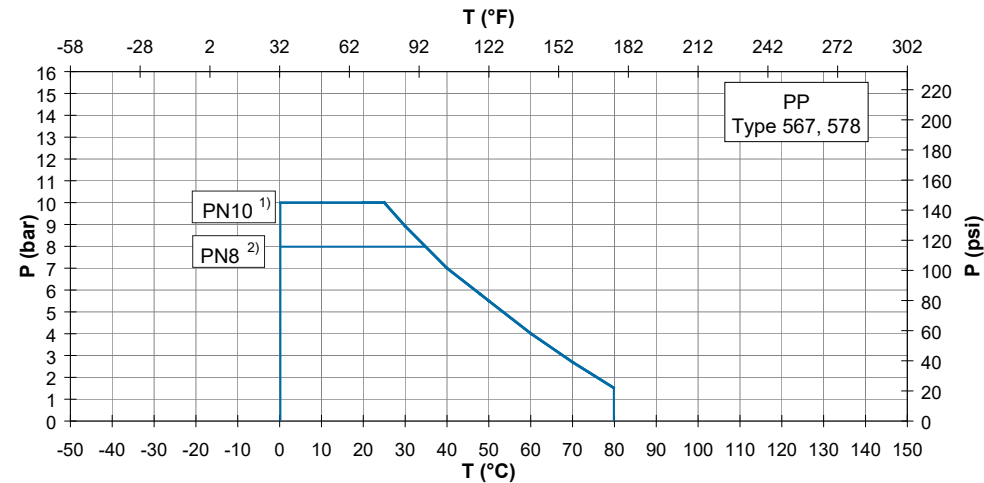
ABS (DN50 – DN300)

¹⁾ with standard type 567/578

²⁾ - with PE flange adapter:
only with COOL-FIT
version of Type 567
- with ABS flange adapter:
with standard type 567 in
installation direction A-B,
or with COOL-FIT version
of type 567

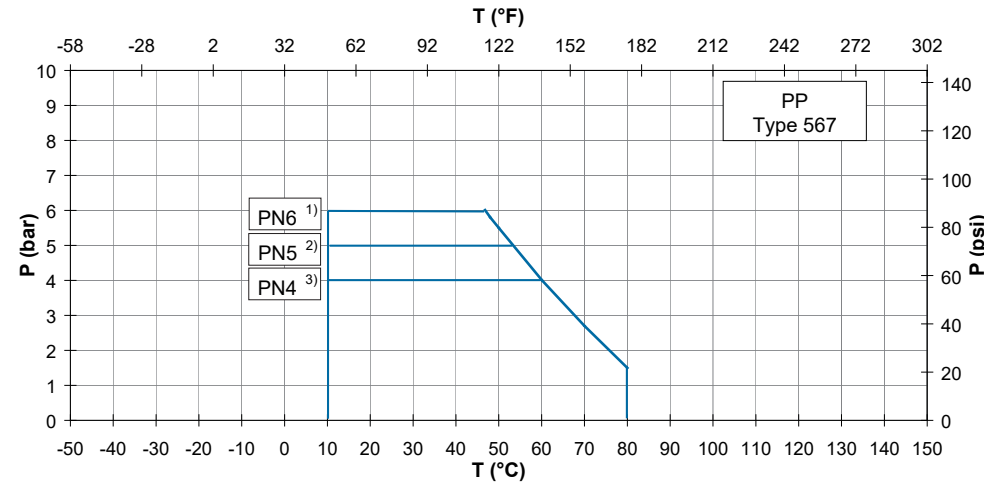


PP (DN50 – DN300)



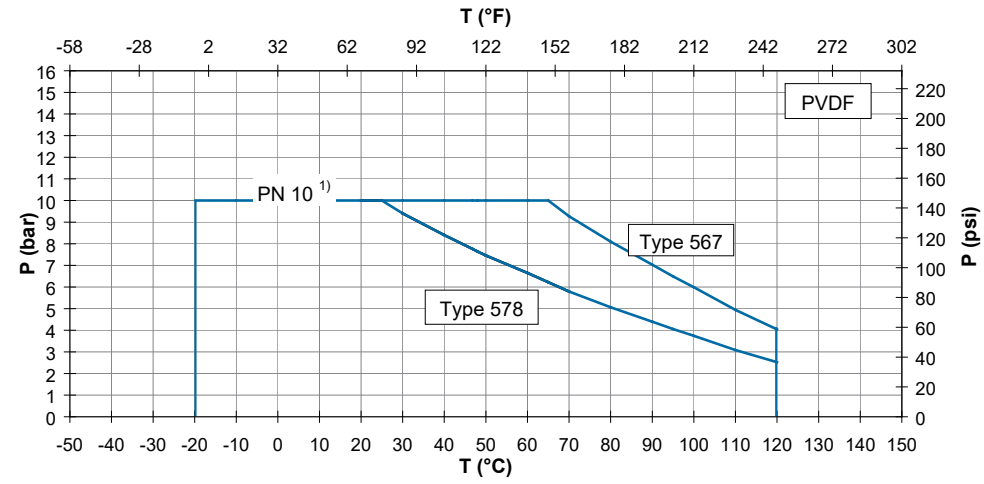
- 1) DN50 – DN200
- 2) DN250 – DN300

PP (DN350 – DN600)



- 1) DN350 – DN400
- 2) DN450
- 3) DN500 – DN600

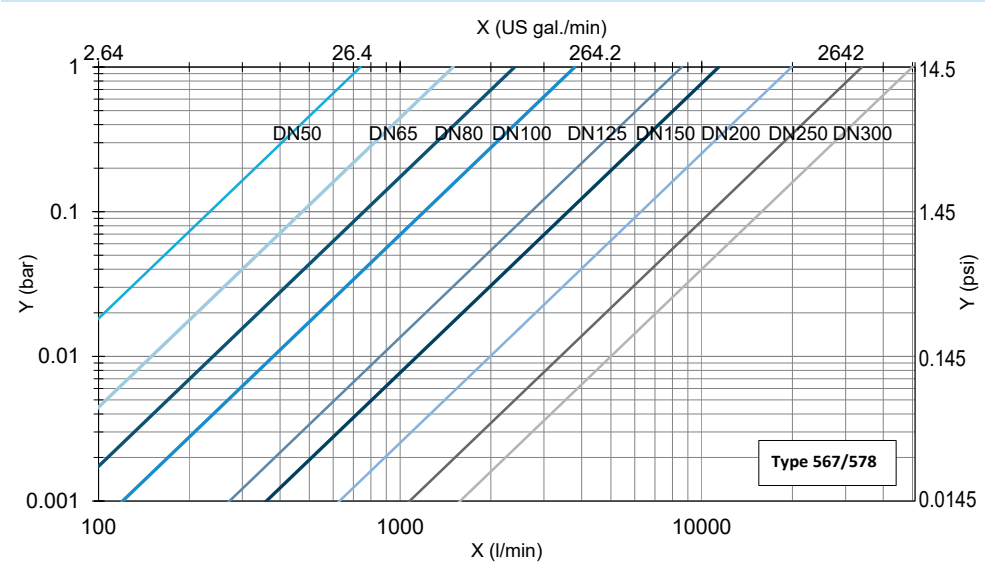
PVDF (DN50 – DN300)



- 1) DN50 – DN300

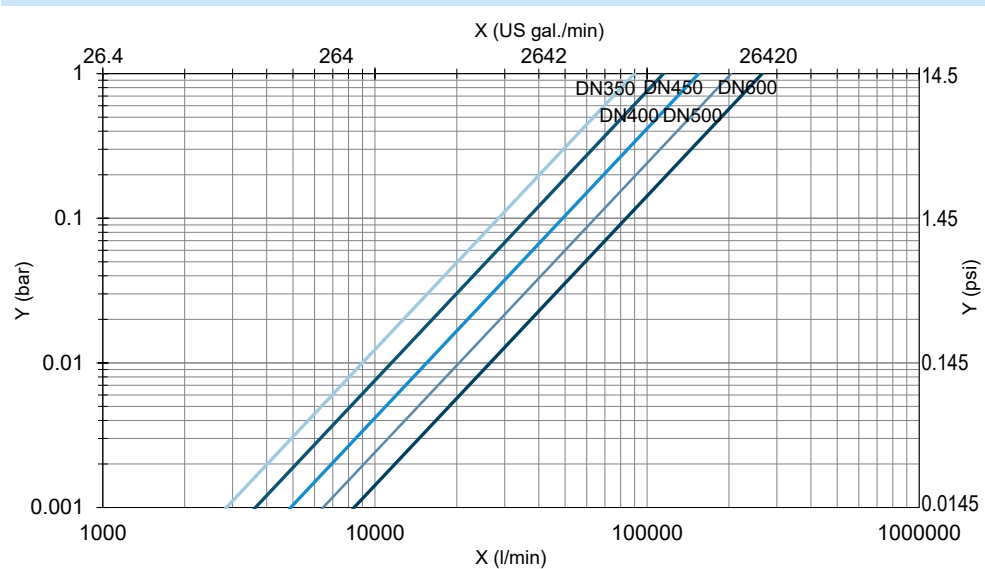
Pressure losses

DN50 – DN300



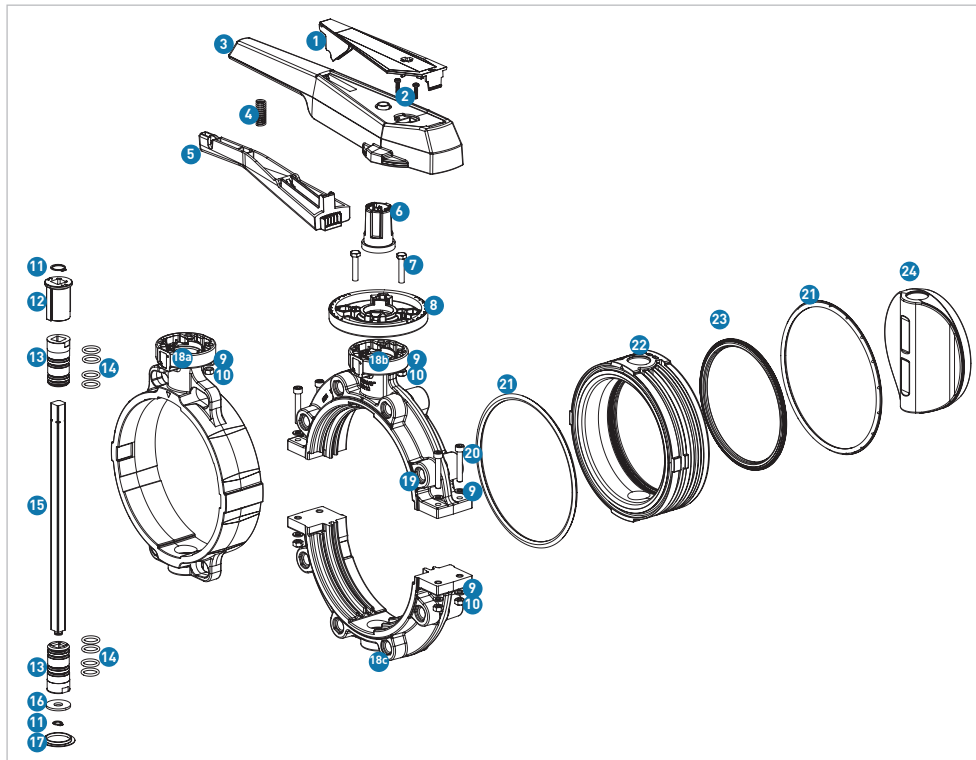
X Flow rate
(l/min, US gal./min)
Y Pressure loss Δp (bar, psi)

DN350 – DN600



X Flow rate
(l/min, US gal./min)
Y Pressure loss Δp (bar, psi)

Product description



- 1 Hand lever clip
- 2 Screw
- 3 Lever
- 4 Spring
- 5 Grid lever
- 6 Lever insert
- 7 Screw
- 8 Grid element
- 9 Washer
- 10 Nut
- 11 Circlip
- 12 End stop
- 13 Bearing bush
- 14 O-ring
- 15 Shaft
- 16 Washer
- 17 Cap
- 18 Outer housing
- 19 Threaded inserts
- 20 Screw
- 21 Flange seal
- 22 Inner housing
- 23 Profile seal
- 24 Disc



Type 567
Wafer-style installation



Type 578
Lug-style installation



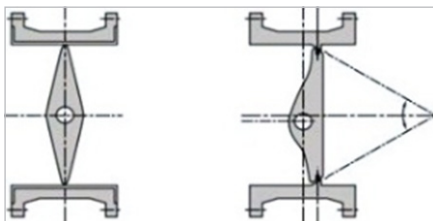
Type 567/578
with reduction gear

Function

Butterfly valves of types 567 and 578 have a double-eccentric mode of action and are of modular construction.

Double eccentric operating principle

The disc does not touch the seal in the open position. The disc can be quickly unscrewed from the gasket, ensuring low wear and tear. Pressure surges in the direction of flow can be absorbed more readily.



Operating torque

DN50 – DN600 for opening/closing torque (standard valve, as delivered)

DN	d	Inch	Operating torque @ maximum operating pressure	
(mm)	(mm)	(")	(Nm)	(ft-lb)
50	63	2	12	8.8
65	75	2 ½	17	12.5
80	90	3	28	20.6
100	110	4	38	28.0
125	140	5	50	36.9
150	160	6	61	45.0
200	225	8	90	66.4
250	280	10	115	84.8
300	315	12	145	106.9
350	355	14	200	147.5
400	400	16	260	191.7
450	450	18	330	243.4
500	500	20	410	302.4
600	630	24	600	442.5

Depending on the operation conditions (e.g. control time, medium, temperature, etc.) the stated operating torque can increase up to 4 times.

Installation notes

Differentiation between and use of the types concerned

- Use butterfly Valve type 567 only as a wafer-style valve.
- Use butterfly Valve type 578 as either a wafer-style or a lug-style valve.

As a connecting piece, GF Industry & Infrastructure Flow Solutions recommends valve ends or flange adapters with smooth jointing faces, together with flanges made of PVC-U, PP-V, PP/steel or UP-GF. In the case of SFA Socket flange adaptor or BFA butt fusion flange adaptor with a ribbed jointing face, a flat gasket can also be used in individual cases.

Requirements for installation

Ensure that the following conditions are satisfied prior to installation:

- Make sure that the butterfly valves to be installed correspond specifically to the pressure rating, type of connection, dimension and materials of the particular application.
- Perform a function test. To do this, close and re-open the butterfly valve.
- Only install butterfly valves that function without problems.

Tips for installation

Chamfering of socket flange adaptor/butt fusion flange adaptor

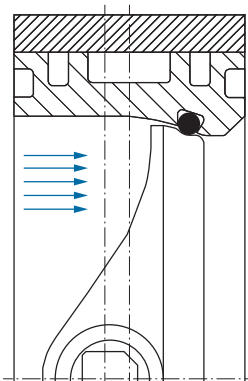
When using the specified socket flange adapters/butt fusion flange adapters from GF Industry & Infrastructure Flow Solutions, chamfering is not necessary, because the disc does not touch the socket flange adapters/butt fusion flange adapters or the butt fusion flange adapters are already chamfered. If you want to install socket flange adapters/butt fusion flange adapters of a different brand, then please make sure that the inside diameter (int) of the socket flange adaptor/butt fusion flange adaptor is greater than the output measure (Q1) of the disc. If necessary, chamfer the socket flange adaptor/butt fusion flange adaptor.

Installation as a lugged valve

If a valve is installed as a lugged valve and pressure is applied to it, it must be closed with a blind flange (or blind cover and counterflange), in order to prevent personal injury or property damage in the event of leaks and/or impermissible opening.

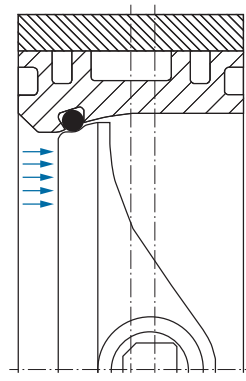
Recommendation of installation direction

A-B



The installation direction A-B is recommended, if increased safety in the event of pressure surges is required.

B-A



If lower torques are important when opening and closing the butterfly valve, installation direction B-A is recommended.

Maintenance notes

In normal operation, butterfly valves do not require maintenance. It is still recommended to perform maintenance on butterfly valves after 5,000 actuation cycles at most. The following steps must be taken when doing so:

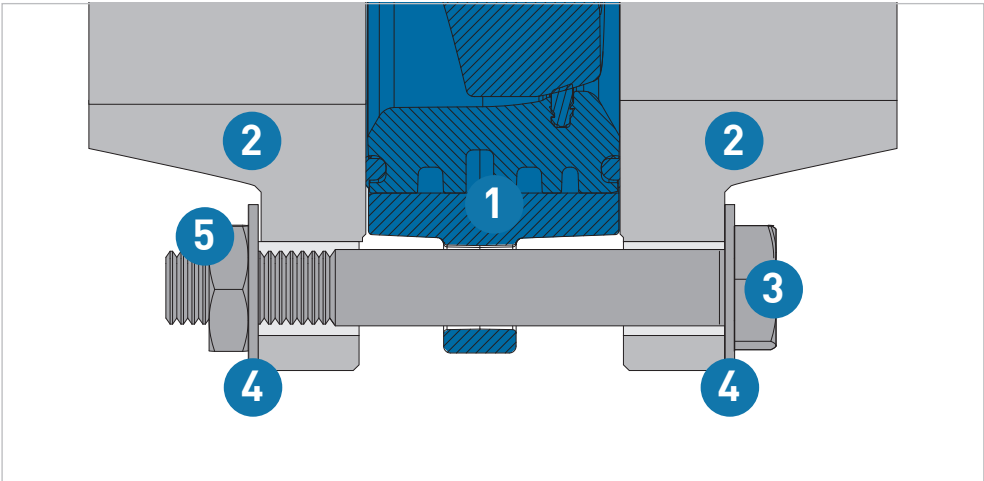
- Regularly check that no medium escapes to the outside. If medium exits from the flange connections, tighten them.
- We recommend operating the butterfly valves that are kept permanently in the same position 1-2x per year to check their functionality.
- Depending on the operating conditions, the collars should be lubricated periodically with (silicon-based) grease.
- It is recommended that you check and, if necessary, replace the O-rings when removing the bearing bushings.



Installation and maintenance must be performed according to the corresponding installation instructions. The installation manual is included with the product and can also be found at www.gfps.com/is-manuals-valves

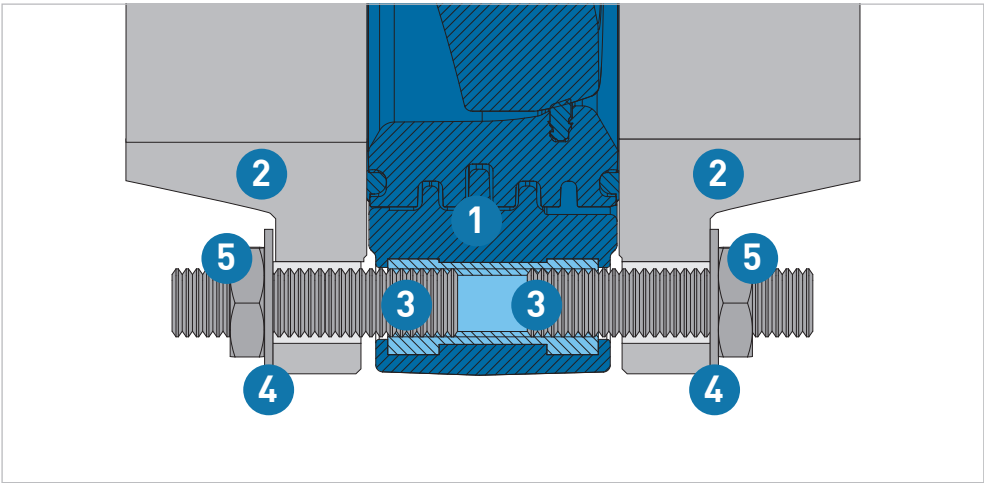
Flange connections

567 wafer-style flange connection with hexagon head screws



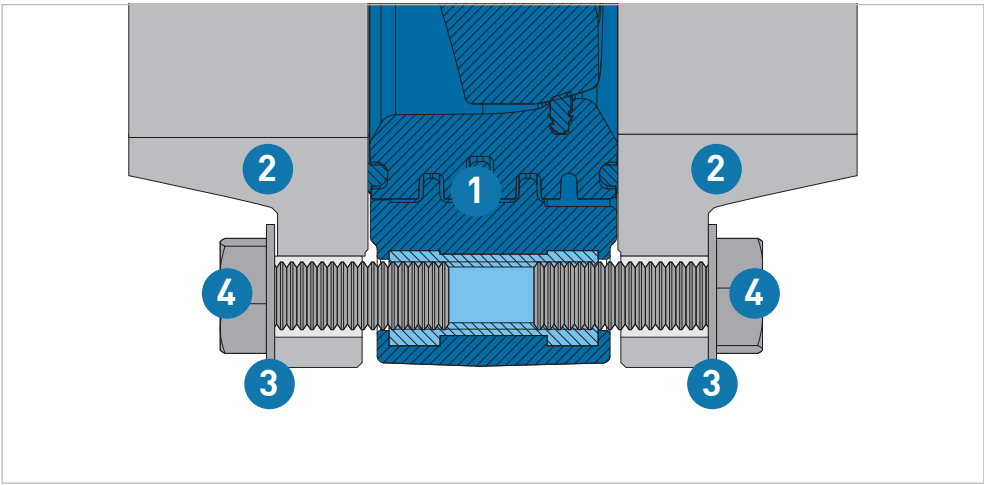
- 1 Wafer body
- 2 Flange
- 3 Screw
- 4 Washer
- 5 Nut

578 lug-style flange connection with studs



- 1 Lug body
- 2 Flange
- 3 Stud
- 4 Washer
- 5 Nut

578 lug-style flange connection with hexagon head screws



- 1 Lug body
- 2 Flange
- 3 Washer
- 4 Screw

Reference values for tightening torque of screws

Reference values for tightening torque of screws AK type 567 in flange connections

DN (mm)	Dimension		Screws		Max. tightening torque	
	d (mm)	Inch (inch)	Metric (mm)	UNC (Inch)	(Nm)	(ft-lb)
50	63	2	4x M16 x 140mm	4 x UNC 5/8" x 5 1/2"	25	18
65	75	2 1/2	4x M16 x 140mm	4 x UNC 5/8" x 5 1/2"	25	18
80	90	3	8x M16 x 150mm	4 x UNC 5/8" x 6"	25	18
100	110	4	8x M16 x 180mm	8 x UNC 5/8" x 7"	30	22
125	140	5	8x M16 x 200mm	8 x UNC 3/4" x 7 3/4"	35	26
150	160	6	8x M20 x 220mm	8 x UNC 3/4" x 8 1/2"	40	30
200	225	8	8x M20 x 220mm	8 x UNC 3/4" x 9 1/2"	50	37
250	280	10	8x M20 x 300mm	12 x UNC 7/8" x 12"	80	59
300	315	12	12x M20 x 300mm	12 x UNC 7/8" x 12"	80	59
350	355	14	depending on counterpart		80	59
400	400	16	depending on counterpart		100	74
450	450	18	depending on counterpart		100	74
500	500	20	depending on counterpart		100	74
600	630	24	depending on counterpart		100	74

Reference values for tightening torque of screws AK type 578 in ISO flange connections

ISO DN (mm)	d (mm)	Quantity of screws/ size	SFA - BFA with the various flanges (mm)								Max. tightening torque	
			PP/PE		PVC-U/PVC-C/ABS			PVDF		(Nm)	(ft-lb)	
			PP-V	PP/steel	PVC-U	PP-V	PP/steel	PP-V	PP/steel			
50	63	8x M16	60	55	50	55	50	55	50	20	15	
65	75	8x M16	65	55	50	60	50	60	50	20	15	
80	90	16x M16	70	60	55	65	55	65	55	20	15	
100	110	16x M16	70	65	60	70	60	70	60	25	18	
125	140	16x M16	80	80	70	75	70	80	70	30	22	
150	160	16x M20	90	80	70	80	70	80	70	35	26	
200	225	16x M20	100	90	90	90	90	90	80	45	33	
250	280	24x M20	130	120	110	120	110	110	110	50	37	
300	315	24x M20	130	120	120	120	120	120	110	50	37	

Reference values for tightening torque of screws AK type 578 in ANSI flange connections

ANSI Inch	d (mm)	Quantity of screws/ size	SFA - BFA with the various flanges (mm)								Max. tightening torque	
			PP/PE		PVC-U/PVC-C/ABS			PVDF		(Nm)	(ft-lb)	
			PP-V	PP/steel	PVC-U	PP-V	PP/steel	PP-V	PP/steel			
2	63	8x UNC 5/8	2 1/4	2	2	2	2	2	2	20	15	
2 1/2	75	8x UNC 5/8	2 1/2	2	2	2 1/4	2	2 1/4	2	20	15	
3	90	8x UNC 5/8	2 3/4	2 1/4	2	2 1/2	2	2 1/2	2	20	15	
4	110	16x UNC 5/8	2 3/4	2 1/2	2 1/4	2 3/4	2 1/4	2 3/4	2 1/4	25	18	
5	140	16x UNC 3/4	3 1/4	3 1/4	2 3/4	3	2 3/4	3 1/4	2 3/4	30	22	
6	160	16x UNC 3/4	3 1/2	3 1/4	3 1/4	3 1/4	2 3/4	3 1/4	2 3/4	35	26	
8	225	16x UNC 3/4	4	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/4	45	33	
10	280	24x UNC 7/8	5	4 3/4	4 1/4	4 3/4	4 1/4	4 1/4	4 1/4	50	37	
12	315	24x UNC 7/8	5	4 3/4	4 3/4	4 3/4	4 3/4	4 3/4	4 1/4	50	37	



Components, screw lengths and tightening torques can be determined using the online tool "Perfect Flange Connection Tool" under the following link: <https://www.gfps.com/perfectflangeconnection>

Automation through use as a process and control valve

Use as a process and control valve

The butterfly valves can be equipped with corresponding pneumatic or electric actuators and can be used with other extensive accessories as process and regulating valves.

The integrated electrical position indicator IER enables direct feedback of the axis position in the valve head flange by means of limit switches and thereby an exact determination of the position of the valve disc.

The type RPC (Rotary Process Controller) are digital, electro-pneumatic positioners for integrated mounting on pneumatically operated industrial valves with single and double-acting rotary actuators e.g. PA and PPA.

Thanks to a wide range of accessories, butterfly valves can be equipped with the appropriate pneumatic or electric actuators and thus used as process and control valves.



Type 567/578 Butterfly Valve
with electric actuator EA



Type 567/578 Butterfly Valve
with smart actuator dEA



Type 567/578 Butterfly Valve
with plastic pneumatic
actuator PPA



Type 567/578 Butterfly Valve
with pneumatic actuator PA

Type 567/578 actuator assignment

Dimension				Pneumatic actuator				Electric actuator	
DN (mm)	d (mm)	Inch (inch)	Interface	Plastic Actuator		Metal Actuator		Type	Voltage
				FC/FO	DA	FC/FO	DA		
50	63	2	F07	PPA40	PPA40	PA30	PA35	EA45 / dEA45	100–230 V~or 24 V
65	75	2 ½	F07	PPA40	PPA40	PA30	PA35	EA45 / dEA45	100–230 V~or 24 V
80	90	3	F07	PPA80	PPA40	PA35	PA40	EA120/dEA120	100–230 V~or 24 V
100	110	4	F07	PPA80	PPA80	PA40	PA45	EA120/dEA120	100–230 V~or 24 V
125	140	5	F07	PPA80	PPA80	PA45	PA45	EA120/dEA120	100–230 V~or 24 V
150	160	6	F07			PA50	PA55	EA120/dEA120	100–230 V~or 24 V
200	225	8	F07			PA55	PA55	EA250/dEA250	100–230 V~or 24 V
250	280	10	F10			PA65	PA65	EA250/dEA250	100–230 V~or 24 V
300	315	12	F10			PA70	PA65	EA250/dEA250	100–230 V~or 24 V
350	355	14	F12			Airpower APS 190	Airpower APD 140	AUMA SQ10.2	240 V and 400 V three-phase
400	400	16	F12			Airpower APS 210	Airpower APD 160	AUMA SQ10.2	240 V and 400 V three-phase
450	450	18	F14			Airpower APS 240	Airpower APD 160	AUMA SQ12.2	240 V and 400 V three-phase
500	500	20	F14			Airpower APS 240	Airpower APD 190	AUMA SQ12.2	240 V and 400 V three-phase
600	600	24	F14			Airpower APS 270	Airpower APD 190	AUMA SQ14.2	240 V and 400 V three-phase

Design with pneumatic actuator



- 1 Pneumatic actuator
- 2 Butterfly valve Type 567/578

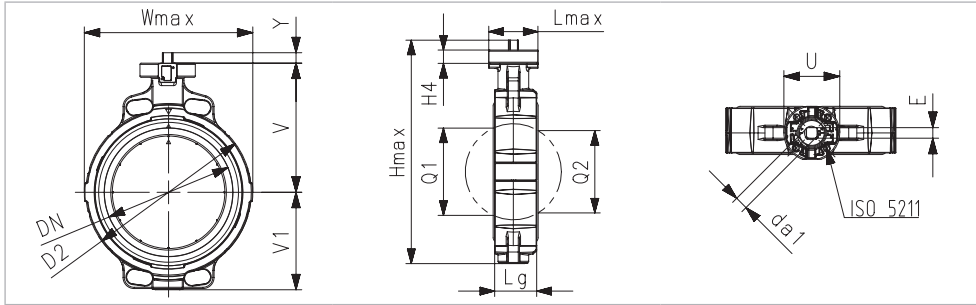
Design with electric actuator



- 1 Electric actuator
- 2 Manual override (optional)
- 3 Butterfly valve Type 567/578

Dimensions and ordering - Type 567 Wafer-style

Butterfly Valve type 567 wafer-style, DN50 – DN300, with open shaft end



DN (mm)	d (mm)	Inch (")	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	U (mm)	V1 (mm)	V (mm)	Y (mm)	H4 (mm)	E (mm)	da1 (mm)	Lg (mm)	Q1 (mm)	Q2 (mm)
50	63	2	238.3	84.8	118.4	104	90	78.8	133.3	26.2	23	11	13.5	45	40	-
65	75	2 ½	251.2	84.8	132.5	115	90	85.1	139.9	26.2	23	11	13.5	46	54	35
80	90	3	263.0	84.8	136.8	131	90	91.2	145.6	15.4	23	11	13.5	49	67	50
100	110	4	284.5	84.8	161.0	161	90	105.7	166.4	15.4	23	14	17.3	56	88	74
125	140	5	314.2	84.8	187.0	187	90	118.8	180.0	15.4	23	14	17.3	64	113	97
150	160	6	338.3	84.8	215.0	215	90	130.9	189.0	18.4	23	17	21.1	72	139	123
200	225	8	387.2	84.8	267.0	267	90	158.3	210.5	18.4	23	17	21.1	73	178	169
250	280	10	508.9	125.0	329.0	329	125	206.1	262.6	40.2	23	22	27.0	113	210	207
300	315	12	553.3	125.0	380.4	379	125	228.8	284.3	40.2	23	22	27.0	113	256	253

PVC-U

Wafer-style intermediate installation butterfly valve type 567 PVC-U, Bare shaft, Flange standard metric/ANSI/BS/JIS

Dimensions				PVC-U		PVC-U oil free	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM code	FKM code	EPDM code	FKM code
50	63	2	10	161 567 802	161 567 822	161 567 842	161 567 862
65	75	2 ½	10	161 567 803	161 567 823	161 567 843	161 567 863
80	90	3	10	161 567 804	161 567 824	161 567 844	161 567 864
100	110	4	10	161 567 805	161 567 825	161 567 845	161 567 865
125	140	5	10	161 567 806	161 567 826	161 567 846	161 567 866
150	160	6	10	161 567 807	161 567 827	161 567 847	161 567 867
200	225	8	10	161 567 808	161 567 828	161 567 848	161 567 868
250	280	10	10	161 567 809	161 567 829		
300	315	12	10	161 567 810	161 567 830		



PVC-C

Wafer-style intermediate installation butterfly valve type 567 PVC-C, Bare shaft, Flange standard metric/ANSI/BS/JIS

Dimensions				PVC-C		
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM code	FKM code	PTFE code
50	63	2	10	163 567 802	163 567 822	163 567 832
65	75	2 ½	10	163 567 803	163 567 823	163 567 833
80	90	3	10	163 567 804	163 567 824	163 567 834
100	110	4	10	163 567 805	163 567 825	163 567 835
125	140	5	10	163 567 806	163 567 826	163 567 836
150	160	6	10	163 567 807	163 567 827	163 567 837
200	225	8	10	163 567 808	163 567 828	163 567 838
250	280	10	10	163 567 809	163 567 829	
300	315	12	10	163 567 810	163 567 830	



ABS

Wafer-style intermediate installation butterfly valve type 567 ABS, Bare shaft, Flange standard metric/ANSI/BS/JIS

Dimensions				ABS	
DN	d	Inch	PN	EPDM code	
(mm)	(mm)	(")	(bar)		
50	63	2	10	169 567 802	
65	75	2 ½	10	169 567 803	
80	90	3	10	169 567 804	
100	110	4	10	169 567 805	
125	140	5	10	169 567 806	
150	160	6	10	169 567 807	
200	225	8	10	169 567 808	
250	280	10	10	169 567 809	
300	315	12	10	169 567 810	

**PROGEF PP-H**

PROGEF Standard Wafer-style intermediate installation butterfly valve type 567, Bare shaft, Flange standard metric/ANSI/BS/JIS

Dimensions				PROGEF PP		
DN	d	Inch	PN	EPDM code	FKM code	PTFE code
(mm)	(mm)	(")	(bar)			
50	63	2	10	167 567 802	167 567 822	167 567 840
65	75	2 ½	10	167 567 803	167 567 823	167 567 841
80	90	3	10	167 567 804	167 567 824	167 567 842
100	110	4	10	167 567 805	167 567 825	167 567 843
125	140	5	10	167 567 806	167 567 826	167 567 844
150	160	6	10	167 567 807	167 567 827	167 567 845
200	225	8	10	167 567 808	167 567 828	167 567 846
250	280	10	10	167 567 809	167 567 829	167 567 847
300	315	12	10	167 567 810	167 567 830	167 567 848

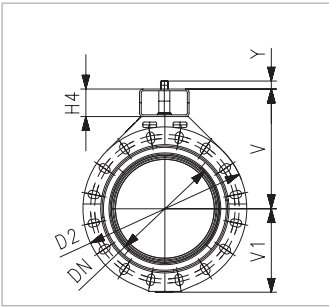
**SYGEF PVDF**

SYGEF Standard Wafer-style intermediate installation butterfly valve type 567, Bare shaft, Flange standard metric/ANSI/BS/JIS

Dimensions				SYGEF PVDF	
DN	d	Inch	PN	FKM code	PTFE code
(mm)	(mm)	(")	(bar)		
50	63	2	10	175 567 822	175 567 842
65	75	2 ½	10	175 567 823	175 567 843
80	90	3	10	175 567 824	175 567 844
100	110	4	10	175 567 825	175 567 845
125	140	5	10	175 567 826	175 567 846
150	160	6	10	175 567 827	175 567 847
200	225	8	10	175 567 828	175 567 848
250	280	10	10	175 567 829	175 567 849
300	315	12	10	175 567 830	175 567 850



Butterfly Valve type 567 wafer-style, DN350 – DN600, with open shaft end



DN (mm)	d (mm)	Inch	Hmax (mm)	Lmax (mm)	Wmax (mm)	k (mm)	D2 (mm)	U (mm)	V (mm)	V1 (mm)	Y (mm)	H4 (mm)	E (mm)	da1 (mm)	Lg (mm)	Q1 (mm)	Q2 (mm)
350	355	14"	709	180	535	460	535	180	410	268	31	100	22	28.5	129	325	305
400	400	16"	766	180	595	515	595	180	435	300	31	100	27	36.0	169	353	350
450	450	18"	875	220	635	565	635	220	520	320	35	130	27	36.0	179	393	390
500	500	20"	935	220	700	620	700	220	550	350	35	130	27	36.0	190	444	440
600	630	24"	1065	220	813	725	813	220	610	420	35	130	36	45.0	209	530	527

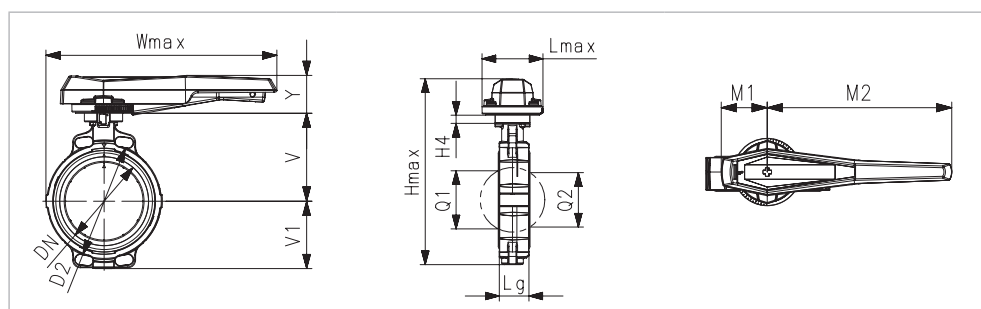
PROGEF PP-H

PROGEF Standard Wafer-style intermediate installation butterfly valve type 567, Bare shaft, Flange standard metric/ANSI/BS/JIS

Dimensions				PROGEF PP		
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM code	FKM code	PTFE code
350	355	14"	6	167 567 811	167 567 831	167 567 849
400	400	16"	6	167 567 812	167 567 832	167 567 850
450	450	18"	5	167 567 813	167 567 833	167 567 851
500	500	20"	4	167 567 814	167 567 834	167 567 852
600	630	24"	4	167 567 815	167 567 835	167 567 853



Butterfly Valve type 567 wafer-style, DN50 – DN300, with hand lever



DN (mm)	d (mm)	Inch (")	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	U (mm)	H4 (mm)	V1 (mm)	V (mm)	Y (mm)	Lg (mm)	Q1 (mm)	Q2 (mm)	M1 (mm)	M2 (mm)
50	63	2	278.9	115.2	269.0	104	90	23	78.8	134	54	45	40	-	64.7	205.5
65	75	2 ½	291.8	115.2	271.8	115	90	23	85.1	140	54	46	54	35	64.7	205.5
80	90	3	303.6	115.2	273.9	131	90	23	91.2	146	54	49	67	50	64.7	205.5
100	110	4	342.2	115.2	336.0	161	90	23	105.7	167	55	56	88	74	64.9	255.5
125	140	5	368.9	115.2	349.0	187	90	23	118.8	181	55	64	113	97	64.9	255.5
150	160	6	390.0	115.2	363.0	215	90	23	130.9	189	55	72	139	123	64.9	255.5
200	225	8	455.1	115.2	543.0	267	90	23	158.3	210	67	73	178	169	103.6	409.5
250	280	10	555.0	149.4	574.0	329	125	23	206.1	264	85	113	210	207	103.6	409.5
300	315	12	599.4	149.4	599.7	379	125	23	228.8	285	85	113	256	253	103.6	409.5

PVC-U

Wafer-style intermediate installation butterfly valve type 567 PVC-U, with hand lever, Flange standard metric/ANSI/BS/JIS

Dimensions				PVC-U		PVC-U oil free		PVC-U silicone free	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM code	FKM code	EPDM code	FKM code	EPDM code	FKM code
50	63	2	10	161 567 002	161 567 022	161 567 502	161 567 522	161 567 402	161 567 422
65	75	2 ½	10	161 567 003	161 567 023	161 567 503	161 567 523	161 567 403	161 567 423
80	90	3	10	161 567 004	161 567 024	161 567 504	161 567 524	161 567 404	161 567 424
100	110	4	10	161 567 005	161 567 025	161 567 505	161 567 525	161 567 405	161 567 425
125	140	5	10	161 567 006	161 567 026	161 567 506	161 567 526	161 567 406	161 567 426
150	160	6	10	161 567 007	161 567 027	161 567 507	161 567 527	161 567 407	161 567 427
200	225	8	10	161 567 008	161 567 028	161 567 508	161 567 528	161 567 408	161 567 428
250	280	10	10	161 567 009	161 567 029				
300	315	12	10	161 567 010	161 567 030				



PVC-C

Wafer-style intermediate installation butterfly valve type 567 PVC-C, with hand lever, Flange standard metric/ANSI/BS/JIS

Dimensions				PVC-C		
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM code	FKM code	PTFE code
50	63	2	10	163 567 002	163 567 022	163 567 202
65	75	2 ½	10	163 567 003	163 567 023	163 567 203
80	90	3	10	163 567 004	163 567 024	163 567 204
100	110	4	10	163 567 005	163 567 025	163 567 205
125	140	5	10	163 567 006	163 567 026	163 567 206
150	160	6	10	163 567 007	163 567 027	163 567 207
200	225	8	10	163 567 008	163 567 028	163 567 208
250	280	10	10	163 567 009	163 567 029	
300	315	12	10	163 567 010	163 567 030	



ABS

Wafer-style intermediate installation butterfly valve type 567 ABS, with hand lever, Flange standard metric/ANSI/BS/JIS

Dimensions				ABS
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM code
50	63	2	10	169 567 002
65	75	2 ½	10	169 567 003
80	90	3	10	169 567 004
100	110	4	10	169 567 005
125	140	5	10	169 567 006
150	160	6	10	169 567 007
200	225	8	10	169 567 008
250	280	10	10	169 567 009
300	315	12	10	169 567 010



PROGEF PP-H

PROGEF Standard Wafer-style intermediate installation butterfly valve type 567, with hand lever, Flange standard metric/ANSI/BS/JIS

Dimensions				PROGEF Standard PP			PROGEF Plus PP oil free		PROGEF Plus PP silicone free	
DN	d	Inch	PN	EPDM code	FKM code	PTFE code	EPDM code	FKM code	EPDM code	FKM code
(mm)	(mm)	(")	(bar)							
50	63	2	10	167 567 002	167 567 022	167 567 202	167 567 502	167 567 522	167 567 402	167 567 422
65	75	2 ½	10	167 567 003	167 567 023	167 567 203	167 567 503	167 567 523	167 567 403	167 567 423
80	90	3	10	167 567 004	167 567 024	167 567 204	167 567 504	167 567 524	167 567 404	167 567 424
100	110	4	10	167 567 005	167 567 025	167 567 205	167 567 505	167 567 525	167 567 405	167 567 425
125	140	5	10	167 567 006	167 567 026	167 567 206	167 567 506	167 567 526	167 567 406	167 567 426
150	160	6	10	167 567 007	167 567 027	167 567 207	167 567 507	167 567 527	167 567 407	167 567 427
200	225	8	10	167 567 008	167 567 028	167 567 208	167 567 508	167 567 528	167 567 408	167 567 428
250	280	10	10	167 567 009	167 567 029	167 567 209			167 567 409	167 567 429
300	315	12	10	167 567 010	167 567 030	167 567 210			167 567 410	167 567 430

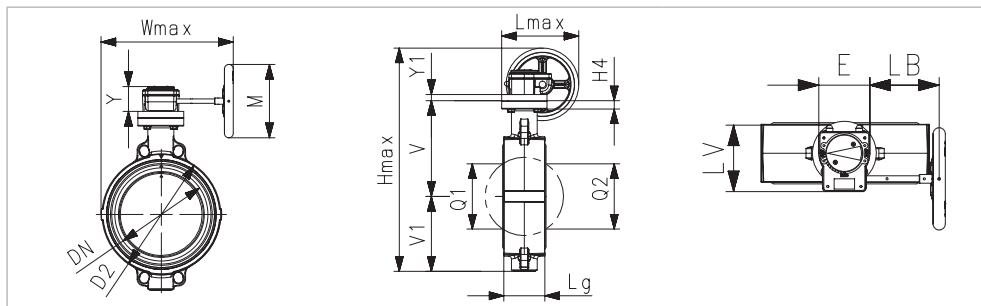
**SYGEF PVDF**

SYGEF Standard Wafer-style intermediate installation butterfly valve type 567, with hand lever, Flange standard metric/ANSI/BS/JIS

Dimensions				SYGEF PVDF		SYGEF PVDF oil free
DN	d	Inch	PN	FKM code	PTFE code	PTFE code
(mm)	(mm)	(")	(bar)			
50	63	2	10	175 567 002	175 567 202	175 567 602
65	75	2 ½	10	175 567 003	175 567 203	175 567 603
80	90	3	10	175 567 004	175 567 204	175 567 604
100	110	4	10	175 567 005	175 567 205	175 567 605
125	140	5	10	175 567 006	175 567 206	175 567 606
150	160	6	10	175 567 007	175 567 207	175 567 607
200	225	8	10	175 567 008	175 567 208	175 567 608
250	280	10	10	175 567 009	175 567 209	175 567 609
300	315	12	10	175 567 010	175 567 210	175 567 610



Butterfly Valve type 567 wafer-style, DN50 – DN300, with manual reduction gear



DN (mm)	d (mm)	Inch (")	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	H4 (mm)	V1 (mm)	V (mm)	Y (mm)	Y1 (mm)	Lg (mm)	Q1 (mm)	Q2 (mm)	E (mm)	M (mm)	LV (mm)	LB (mm)
50	63	2	319.4	169.1	240.2	104	23	78.8	133.3	61.2		45	40		80	160	112.3	129.5
65	75	2 ½	332.3	169.1	247.3	115	23	85.1	139.9	61.2		46	54	35	80	160	112.3	129.5
80	90	3	344.1	169.1	249.4	131	23	91.2	145.6	61.2		49	67	50	80	160	112.3	129.5
100	110	4	379.4	169.1	261.5	161	23	105.7	166.4	61.2		56	88	74	80	160	112.3	129.5
125	140	5	406.1	169.1	274.5	187	23	118.8	180.0	61.2		64	113	97	80	160	112.3	129.5
150	160	6	427.2	169.1	288.5	215	23	130.9	189.0	61.2		72	139	123	80	160	112.3	129.5
200	225	8	476.1	169.1	267.0	267	23	158.3	210.5	61.2		73	178	169	80	160	112.3	129.5
250	280	10	613.0	212.6	329.0	329	23	206.1	262.6	68.4	17	113	210	207	100	200	130.0	134.0
300	315	12	657.4	212.6	380.4	379	23	228.8	284.3	68.4	17	113	256	253	100	200	130.0	134.0

PVC-U

Wafer-style intermediate installation butterfly valve type 567 PVC-U, with gear box, Flange standard metric/ANSI/BS/JIS

Dimensions			PVC-U		
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM code	FKM code
50	63	2	10	161 567 042	161 567 062
65	75	2 ½	10	161 567 043	161 567 063
80	90	3	10	161 567 044	161 567 064
100	110	4	10	161 567 045	161 567 065
125	140	5	10	161 567 046	161 567 066
150	160	6	10	161 567 047	161 567 067
200	225	8	10	161 567 048	161 567 068
250	280	10	10	161 567 049	161 567 069
300	315	12	10	161 567 050	161 567 070



PVC-C

Wafer-style intermediate installation butterfly valve type 567 PVC-C, with gear box, Flange standard metric/ANSI/BS/JIS

Dimensions				PVC-C		
DN	d	Inch	PN			
(mm)	(mm)	(")	(bar)	EPDM code	FKM code	PTFE code
50	63	2	10	163 567 042	163 567 062	163 567 242
65	75	2 ½	10	163 567 043	163 567 063	163 567 243
80	90	3	10	163 567 044	163 567 064	163 567 244
100	110	4	10	163 567 045	163 567 065	163 567 245
125	140	5	10	163 567 046	163 567 066	163 567 246
150	160	6	10	163 567 047	163 567 067	163 567 247
200	225	8	10	163 567 048	163 567 068	163 567 248
250	280	10	10	163 567 049	163 567 069	
300	315	12	10	163 567 050	163 567 070	



ABS

Wafer-style intermediate installation butterfly valve type 567 ABS, with gear box, Flange standard metric/ANSI/BS/JIS

Dimensions			ABS	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM code
50	63	2	10	169 567 022
65	75	2 ½	10	169 567 023
80	90	3	10	169 567 024
100	110	4	10	169 567 025
125	140	5	10	169 567 026
150	160	6	10	169 567 027
200	225	8	10	169 567 028
250	280	10	10	169 567 029
300	315	12	10	169 567 030



PROGEF PP-H

PROGEF Standard Wafer-style intermediate installation butterfly valve type 567, with gear box, Flange standard metric/ANSI/BS/JIS

Dimensions				PROGEF Standard PP		
DN	d	Inch	PN	EPDM code	FKM code	PTFE code
(mm)	(mm)	(")	(bar)			
50	63	2	10	167 567 042	167 567 062	167 567 242
65	75	2 ½	10	167 567 043	167 567 063	167 567 243
80	90	3	10	167 567 044	167 567 064	167 567 244
100	110	4	10	167 567 045	167 567 065	167 567 245
125	140	5	10	167 567 046	167 567 066	167 567 246
150	160	6	10	167 567 047	167 567 067	167 567 247
200	225	8	10	167 567 048	167 567 068	167 567 248
250	280	10	10	167 567 049	167 567 069	167 567 249
300	315	12	10	167 567 050	167 567 070	167 567 250

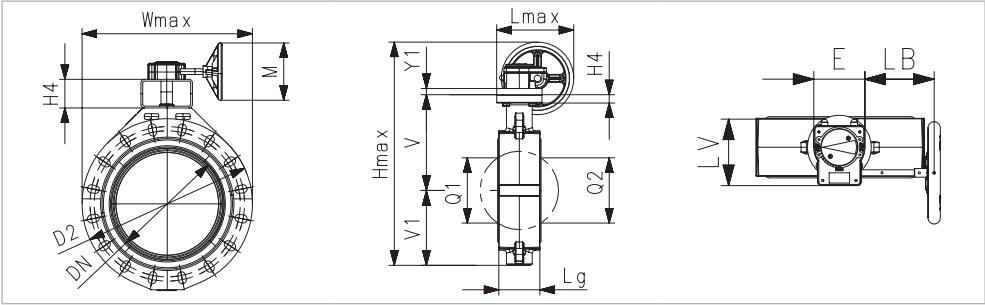
**SYGEF PVDF**

SYGEF Standard Wafer-style intermediate installation butterfly valve type 567, with gear box, Flange standard metric/ANSI/BS/JIS

Dimensions				SYGEF Standard PVDF	
DN	d	Inch	PN	FKM code	PTFE code
(mm)	(mm)	(")	(bar)		
50	63	2	10	175 567 022	175 567 222
65	75	2 ½	10	175 567 023	175 567 223
80	90	3	10	175 567 024	175 567 224
100	110	4	10	175 567 025	175 567 225
125	140	5	10	175 567 026	175 567 226
150	160	6	10	175 567 027	175 567 227
200	225	8	10	175 567 028	175 567 228
250	280	10	10	175 567 029	175 567 229
300	315	12	10	175 567 030	175 567 230



Butterfly Valve type 567 wafer-style, DN350 – DN600, with manual reduction gear



DN (mm)	d (mm)	Inch (")	Hmax (mm)	Lmax (mm)	Wmax (mm)	k (mm)	D2 (mm)	H4 (mm)	V1 (mm)	V (mm)	Y (mm)	Lg (mm)	Q1 (mm)	Q2 (mm)	E (mm)	M (mm)	LV (mm)	LB (mm)
350	355	14"	709	180	535	460	535	100	268	410	31	129	325	305	130	200	146	122
400	400	16"	766	180	595	515	595	100	300	435	31	169	353	350	130	200	174	122
450	450	18"	875	220	635	565	635	130	320	520	35	179	393	390	130	250	185	203
500	500	20"	935	220	700	620	700	130	350	550	35	190	444	440	174	300	201	151
600	630	24"	1065	220	813	725	813	130	420	610	35	209	530	527	74	300	210	151

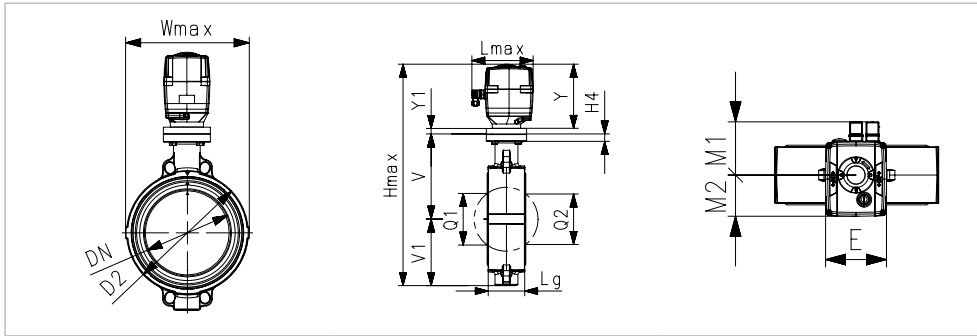
PROGEF PP-H

PROGEF Standard Wafer-style intermediate installation butterfly valve type 567, with gear box, Flange standard metric/ANSI/BS/JIS

Dimensions				PROGEF PP		
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM code	FKM code	PTFE code
350	355	14"	6	167 567 051	167 567 071	167 567 251
400	400	16"	6	167 567 052	167 567 072	167 567 252
450	450	18"	5	167 567 053	167 567 073	167 567 253
500	500	20"	4	167 567 054	167 567 074	167 567 254
600	630	24"	4	167 567 055	167 567 075	167 567 255



Butterfly Valve type 145 wafer-style, DN50 – DN600, with electric actuator, without manual override



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	V1 (mm)	V (mm)	Y (mm)	Y1 (mm)	E (mm)	Q1 (mm)	Q2 (mm)	H4 (mm)	M1 (mm)	M2 (mm)	Lg (mm)
50	63	2	EA45	393.3	190	118.4	104	78.8	133.3	166.2	15	122.3	40	-	23	107.3	82.7	45
65	75	2 ½	EA45	406.2	190	132.5	115	85.1	139.9	166.2	15	122.3	54	35	23	107.3	82.7	46
80	90	3	EA120	426.1	190	136.8	131	91.2	145.6	189.3	-	122.3	67	50	23	107.3	82.7	49
100	110	4	EA120	461.4	190	161.0	161	105.7	166.4	189.3	-	122.3	88	74	23	107.3	82.7	56
125	140	5	EA120	488.1	190	187.0	187	118.8	180.0	189.3	-	122.3	113	97	23	107.3	82.7	64
150	160	6	EA120	509.2	190	215.0	215	130.9	189.0	189.3	-	122.3	139	123	23	107.3	82.7	72
200	225	8	EA250	568.1	190	267.0	267	158.3	210.5	199.3	-	122.3	178	169	23	107.3	82.7	73
250	280	10	EA250	685.0	190	329.0	329	206.1	262.6	199.3	17	122.3	210	207	23	107.3	82.7	113
300	315	12	EA250	729.4	190	380.4	379	228.8	284.3	199.3	17	122.3	256	253	23	107.3	82.7	113
350	355	14	EA250	1036.0	190	535	535	268	410	199.3	17	122.3	325	305	23	107.3	82.7	129
400	400	16	EA250	1096.0	190	595	595	300	435	199.3	17	122.3	353	350	23	107.3	82.7	169
450	450	18	EA250	1225.0	190	635	635	320	520	199.3	17	122.3	393	390	23	107.3	82.7	179
500	500	20	EA250	1285.0	190	700	700	350	550	199.3	17	122.3	444	440	23	107.3	82.7	190
600	630	24	EA250	1450.0	190	813	813	420	610	199.3	17	122.3	530	527	23	107.3	82.7	209

PVC-U

Wafer-style intermediate installation butterfly valve type 145 PVC-U, with electric actuator, Without manual override, Flange standard metric/ANSI/BS/JIS

Dimensions				EA voltage 24 V		EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 145 122	199 145 142	199 145 042	199 145 062
65	75	2 ½	10	199 145 123	199 145 143	199 145 043	199 145 063
80	90	3	10	199 145 124	199 145 144	199 145 044	199 145 064
100	110	4	10	199 145 125	199 145 145	199 145 045	199 145 065
125	140	5	10	199 145 126	199 145 146	199 145 046	199 145 066
150	160	6	10	199 145 127	199 145 147	199 145 047	199 145 067
200	225	8	10	199 145 128	199 145 148	199 145 048	199 145 068
250	280	10	6	199 145 129	199 145 149	199 145 049	199 145 069
300	315	12	4	199 145 130	199 145 150	199 145 050	199 145 070



Wafer-style intermediate installation butterfly valve type 145 PVC-U, with Smart Electric Actuator dEA, Without manual override, Flange standard metric/ANSI/BS/JIS

Dimensions				EA voltage 24 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	FKM Code
50	63	2	10	199 145 330	199 145 340
65	75	2 ½	10	199 145 331	199 145 341
80	90	3	10	199 145 332	199 145 342
100	110	4	10	199 145 333	199 145 343
125	140	5	10	199 145 334	199 145 344
150	160	6	10	199 145 335	199 145 345
200	225	8	10	199 145 336	199 145 346
250	280	10	6	199 145 337	199 145 347
300	315	12	4	199 145 338	199 145 348



PVC-C

Wafer-style intermediate installation butterfly valve type 145 PVC-C, with electric actuator, Without manual override, Flange standard metric/ANSI/BS/JIS

Dimensions				EA voltage 24 V		EA voltage 100-230 V		
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	PTFE Code	EPDM Code	FKM Code	PTFE Code
50	63	2	10	199 145 282	199 145 742	199 145 202	199 145 222	199 145 722
65	75	2 ½	10	199 145 283	199 145 743	199 145 203	199 145 223	199 145 723
80	90	3	10	199 145 284	199 145 744	199 145 204	199 145 224	199 145 724
100	110	4	10	199 145 285	199 145 745	199 145 205	199 145 225	199 145 725
125	140	5	10	199 145 286	199 145 746	199 145 206	199 145 226	199 145 726
150	160	6	10	199 145 287	199 145 747	199 145 207	199 145 227	199 145 727
200	225	8	10	199 145 288	199 145 748	199 145 208	199 145 228	199 145 728
250	280	10	6	199 145 289	-	199 145 209	199 145 229	-
300	315	12	4	199 145 290	-	199 145 210	199 145 230	-

**ABS**

Wafer-style intermediate installation butterfly valve type 567 ABS, with gear box, Flange standard metric/ANSI/BS/JIS

Dimensions				EA voltage 24 V	EA voltage 100-230 V
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	EPDM Code
50	63	2	10	199 145 542	199 145 502
65	75	2 ½	10	199 145 543	199 145 503
80	90	3	10	199 145 544	199 145 504
100	110	4	10	199 145 545	199 145 505
125	140	5	10	199 145 546	199 145 506
150	160	6	10	199 145 547	199 145 507
200	225	8	10	199 145 548	199 145 508
250	280	10	6	199 145 549	199 145 509
300	315	12	4	199 145 550	199 145 510

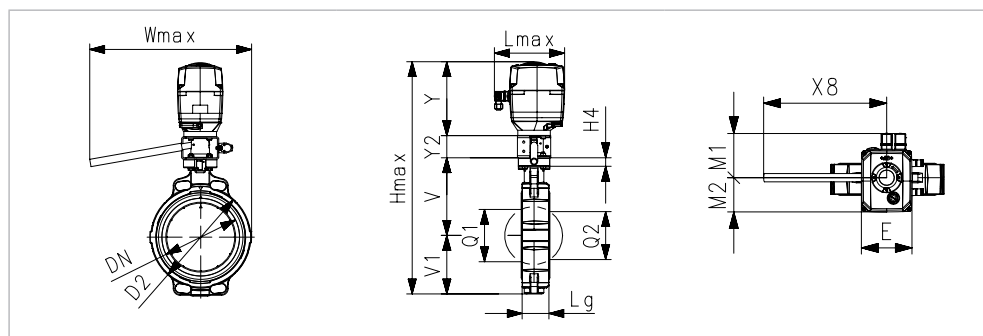
**PROGEF PP-H**

PROGEF Standard Wafer-style intermediate installation butterfly valve type 567, with gear box, Flange standard metric/ANSI/BS/JIS

Dimensions				EA voltage 24 V		EA voltage 100-230 V		
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	PTFE Code	EPDM Code	PTFE Code	FKM Code
50	63	2	10	199 145 442	199 145 822	199 145 362	199 145 802	-
65	75	2 ½	10	199 145 443	199 145 823	199 145 363	199 145 803	-
80	90	3	10	199 145 444	199 145 824	199 145 364	199 145 804	-
100	110	4	10	199 145 445	199 145 825	199 145 365	199 145 805	-
125	140	5	10	199 145 446	199 145 826	199 145 366	199 145 806	-
150	160	6	10	199 145 447	199 145 827	199 145 367	199 145 807	-
200	225	8	10	199 145 448	199 145 828	199 145 368	199 145 808	-
250	280	10	6	199 145 449	199 145 829	199 145 369	199 145 809	-
300	315	12	4	199 145 450	199 145 830	199 145 370	199 145 810	-
350	355	14	6	-	-	199 145 371	199 145 811	199 140 391
400	400	16	6	-	-	199 145 372	199 145 812	199 140 392
450	450	18	5	-	-	199 145 373	199 145 813	199 140 393
500	500	20	4	-	-	199 145 374	199 145 814	199 140 394
600	630	24	4	-	-	199 145 375	199 145 815	199 140 395



Butterfly Valve type 145 wafer-style, DN50 – DN200, with electric actuator, with manual override



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	V1 (mm)	V (mm)	Y (mm)	Y2 (mm)	E (mm)	Q1 (mm)	Q2 (mm)	H4 (mm)	X8 (mm)	M1 (mm)	M2 (mm)	Lg (mm)
50	63	2	EA120	461.4	190	356.7	104	78.8	133.3	189.3	60	122.3	40	-	23	297.5	107.3	82.7	45
65	75	2 ½	EA120	474.3	190	363.8	115	85.1	139.9	189.3	60	122.3	54	35	23	297.5	107.3	82.7	46
80	90	3	EA120	486.1	190	365.9	131	91.2	145.6	189.3	60	122.3	67	50	23	297.5	107.3	82.7	49
100	110	4	EA120	521.4	190	378.0	161	105.7	166.4	189.3	60	122.3	88	74	23	297.5	107.3	82.7	56
125	140	5	EA120	548.1	190	391.0	187	118.8	180.0	189.3	60	122.3	113	97	23	297.5	107.3	82.7	64
150	160	6	EA120	569.2	190	405.0	215	130.9	189.0	189.3	60	122.3	139	123	23	297.5	107.3	82.7	72
200	225	8	EA250	628.1	190	431.0	267	158.3	210.5	189.3	60	122.3	178	169	23	297.5	107.3	82.7	73

PVC-U

Wafer-style intermediate installation butterfly valve type 145 PVC-U, with manual override, Flange standard metric/ANSI/BS/JIS

Dimensions				EA voltage 24 V		EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	EPDM Code	FKM Code	FKM Code
50	63	2	10	199 145 082	199 145 002	199 145 022	199 145 022
65	75	2 ½	10	199 145 083	199 145 003	199 145 023	199 145 023
80	90	3	10	199 145 084	199 145 004	199 145 024	199 145 024
100	110	4	10	199 145 085	199 145 005	199 145 025	199 145 025
125	140	5	10	199 145 086	199 145 006	199 145 026	199 145 026
150	160	6	10	199 145 087	199 145 007	199 145 027	199 145 027
200	225	8	10	199 145 088	199 145 008	199 145 028	199 145 028



PVC-C

Wafer-style intermediate installation butterfly valve type 145 PVC-C, with manual override, Flange standard metric/ANSI/BS/JIS

Dimensions				EA voltage 24 V		EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	PTFE Code	EPDM Code	PTFE Code
50	63	2	10	199 145 242	199 145 782	199 145 162	199 145 762
65	75	2 ½	10	199 145 243	199 145 783	199 145 163	199 145 763
80	90	3	10	199 145 244	199 145 784	199 145 164	199 145 764
100	110	4	10	199 145 245	199 145 785	199 145 165	199 145 765
125	140	5	10	199 145 246	199 145 786	199 145 166	199 145 766
150	160	6	10	199 145 247	199 145 787	199 145 167	199 145 767
200	225	8	10	199 145 248	199 145 788	199 145 168	199 145 768



ABS

ABS Wafer-style intermediate installation butterfly valve type 145, with manual override, Flange standard metric/ANSI/BS/JIS

Dimensions				EA voltage 24 V		EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	EPDM Code	EPDM Code	EPDM Code
50	63	2	10	199 145 522	199 145 482	199 145 482	199 145 482
65	75	2 ½	10	199 145 523	199 145 483	199 145 483	199 145 483
80	90	3	10	199 145 524	199 145 484	199 145 484	199 145 484
100	110	4	10	199 145 525	199 145 485	199 145 485	199 145 485
125	140	5	10	199 145 526	199 145 486	199 145 486	199 145 486
150	160	6	10	199 145 527	199 145 487	199 145 487	199 145 487
200	225	8	10	199 145 528	199 145 488	199 145 488	199 145 488



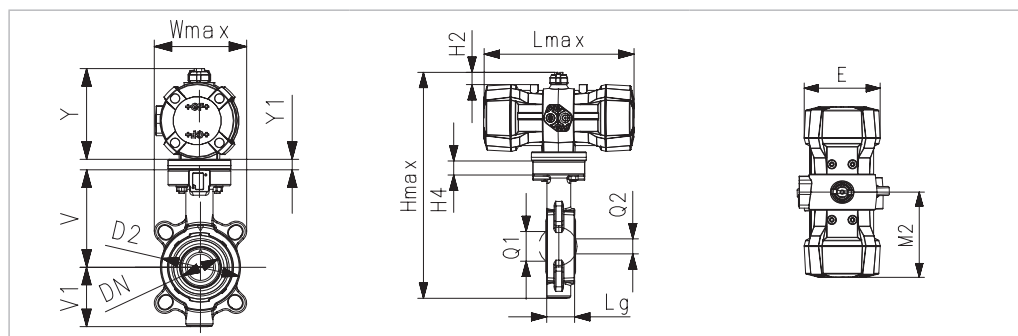
PROGEF PP-H

PROGEF Standard Wafer-style intermediate installation butterfly valve type 145, with manual override, Flange standard metric/ANSI/BS/JIS

Dimensions			EA voltage 24 V			EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	PTFE Code	EPDM Code	PTFE Code
50	63	2	10	199 145 402	199 145 862	199 145 322	199 145 842
65	75	2 ½	10	199 145 403	199 145 863	199 145 323	199 145 843
80	90	3	10	199 145 404	199 145 864	199 145 324	199 145 844
100	110	4	10	199 145 405	199 145 865	199 145 325	199 145 845
125	140	5	10	199 145 406	199 145 866	199 145 326	199 145 846
150	160	6	10	199 145 407	199 145 867	199 145 327	199 145 847
200	225	8	10	199 145 408	199 145 868	199 145 328	199 145 848



Butterfly valve type 240 wafer-style, DN50 – DN125, with plastic pneumatic actuator FC/F0



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	H2 (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	Y1 (mm)	M2 (mm)	E (mm)
50	63	2	PPA40	338.1	245.5	121.2	133.3	20	23	78.8	45	104	40	-	111	15	122.75	119.5
65	75	2 ½	PPA40	351.0	245.5	132.5	139.9	20	23	85.1	46	115	54	35	111	15	122.75	119.5
80	90	3	PPA80	382.8	343.0	136.8	145.6	20	23	91.2	49	131	67	50	111	15	171.50	141.5
100	110	4	PPA80	403.1	343.0	161.0	166.4	20	23	105.7	56	161	88	74	131	-	171.50	141.5
125	140	5	PPA80	429.8	343.0	187.0	180.0	20	23	118.8	64	187	113	97	131	-	171.50	141.5

PVC-U

Wafer-style intermediate installation butterfly valve type 240 PVC-U, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 240 602	199 240 622	199 240 632	199 240 132
65	75	2 ½	10	199 240 603	199 240 623	199 240 633	199 240 133
80	90	3	10	199 240 604	199 240 624	199 240 634	199 240 134
100	110	4	10	199 240 605	199 240 625	199 240 635	199 240 135
125	140	5	10	199 240 606	199 240 626	199 240 636	199 240 136



PVC-C

Wafer-style intermediate installation butterfly valve type 240 PVC-C, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 240 992	199 240 982	199 240 142	199 240 152
65	75	2 ½	10	199 240 993	199 240 983	199 240 143	199 240 153
80	90	3	10	199 240 994	199 240 984	199 240 144	199 240 154
100	110	4	10	199 240 995	199 240 985	199 240 145	199 240 155
125	140	5	10	199 240 996	199 240 986	199 240 146	199 240 156



ABS

Wafer-style intermediate installation butterfly valve type 240 ABS, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)	FO (Fail safe to open)
				EPDM Code	EPDM Code
50	63	2	10	199 240 920	199 240 930
65	75	2 ½	10	199 240 921	199 240 931
80	90	3	10	199 240 922	199 240 932
100	110	4	10	199 240 923	199 240 933
125	140	5	10	199 240 924	199 240 934



PROGEF PP-H

PROGEF Standard Wafer-style intermediate installation butterfly valve type 240, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 240 802	199 240 822	199 240 832	199 240 842
65	75	2 ½	10	199 240 803	199 240 823	199 240 833	199 240 843
80	90	3	10	199 240 804	199 240 824	199 240 834	199 240 844
100	110	4	10	199 240 805	199 240 825	199 240 835	199 240 845
125	140	5	10	199 240 806	199 240 826	199 240 836	199 240 846



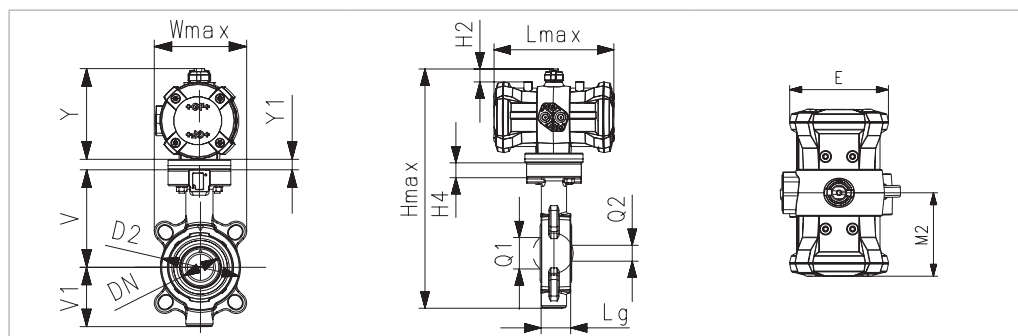
SYGEF PVDF

SYGEF Standard Wafer-style intermediate installation butterfly valve type 240, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)	FO (Fail safe to open)
				FKM Code	FKM Code
50	63	2	10	199 240 925	199 240 935
65	75	2 ½	10	199 240 926	199 240 936
80	90	3	10	199 240 927	199 240 937
100	110	4	10	199 240 928	199 240 938
125	140	5	10	199 240 929	199 240 939



Butterfly Valve type 240 wafer-style, DN50 – DN125, with pneumatic actuator DA



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	H2 (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	Y1 (mm)	M2 (mm)	E (mm)
50	63	2	PPA40	338.1	183.5	121.2	133.3	20	23	78.8	45	104	40		111	15	91.8	119.5
65	75	2 ½	PPA40	351.0	183.5	132.5	139.9	20	23	85.1	46	115	54	35	111	15	91.8	119.5
80	90	3	PPA40	362.8	183.5	136.8	145.6	20	23	91.2	49	131	67	50	111	15	91.8	119.5
100	110	4	PPA80	403.1	261.0	161.0	166.4	20	23	105.7	56	161	88	74	131		130.5	141.5
125	140	5	PPA80	429.8	261.0	187.0	180.0	20	23	118.8	64	187	113	97	131		130.5	141.5

PVC-U

Wafer-style intermediate installation butterfly valve type 240 PVC-U, DA (Double acting), Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 240 652	199 240 172
65	75	2 ½	10	199 240 653	199 240 173
80	90	3	10	199 240 654	199 240 174
100	110	4	10	199 240 655	199 240 175
125	140	5	10	199 240 656	199 240 176



PVC-C

Wafer-style intermediate installation butterfly valve type 240 PVC-C, DA (Double acting), Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 240 032	199 240 762
65	75	2 ½	10	199 240 033	199 240 763
80	90	3	10	199 240 034	199 240 764
100	110	4	10	199 240 035	199 240 765
125	140	5	10	199 240 036	199 240 766



ABS

Wafer-style intermediate installation butterfly valve type 240 ABS, DA (Double acting), Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)
				EPDM Code
50	63	2	10	199 240 072
65	75	2 ½	10	199 240 073
80	90	3	10	199 240 074
100	110	4	10	199 240 075
125	140	5	10	199 240 076



PROGEF PP-H

PROGEF Standard Wafer-style intermediate installation butterfly valve type 240, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 240 852	199 240 862
65	75	2 ½	10	199 240 853	199 240 863
80	90	3	10	199 240 854	199 240 864
100	110	4	10	199 240 855	199 240 865
125	140	5	10	199 240 856	199 240 866



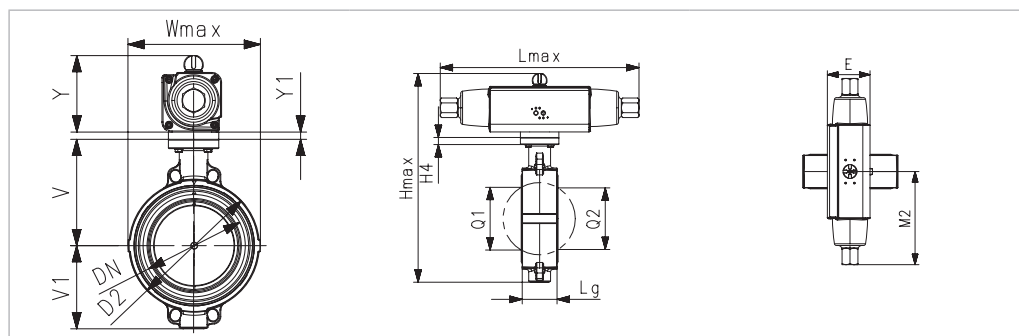
SYGEF PVDF

SYGEF Standard Wafer-style intermediate installation butterfly valve type 240, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)
				FKM Code
50	63	2	10	199 240 122
65	75	2 ½	10	199 240 123
80	90	3	10	199 240 124
100	110	4	10	199 240 125
125	140	5	10	199 240 126



Butterfly Valve type 240 wafer-style, DN50 – DN600, with pneumatic actuator FC/FO



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	V (mm)	V1 (mm)	Y (mm)	Y1 (mm)	H4 (mm)	E (mm)	Q1 (mm)	Q2 (mm)	M2 (mm)	Lg (mm)
50	63	2	PA30	325.3	274.4	118.4	104	133.3	78.8	98.2	15.0	23	70.4	40	-	137.2	45
65	75	2 ½	PA30	338.2	274.4	132.5	115	139.9	85.1	98.2	15.0	23	70.4	54	35	137.2	46
80	90	3	PA35	362.9	325.2	136.8	131	145.6	91.2	111.1	15.0	23	83.3	67	50	162.6	49
100	110	4	PA40	386.9	359.6	161.0	161	166.4	105.7	114.8	-	23	87.0	88	74	179.8	56
125	140	5	PA45	448.3	418.0	187.0	187	180.0	118.8	149.5	-	23	107.5	113	97	209.0	64
150	160	6	PA50	473.0	434.0	215.0	215	189.0	130.9	153.1	-	23	111.1	139	123	217.0	72
200	225	8	PA55	528.8	498.4	267.0	267	210.5	158.3	160.0	-	23	118.0	178	169	249.2	73
250	280	10	PA60 FC	676.9	646.0	329.0	329	262.6	206.1	190.0	18.2	23	148.0	210	207	323.0	113
250	280	10	PA70 FO	676.9	646.0	329.0	329	262.6	206.1	190.0	18.2	23	148.0	210	207	323.0	113
300	315	12	PA65 FC	741.4	681.0	379.0	379	284.3	228.8	210.1	18.2	23	168.0	256	253	340.5	113
300	315	12	PA70 FO	741.4	681.0	379.0	379	284.3	228.8	210.1	18.2	23	168.0	256	253	340.5	113
350	355	14	APS190	887.0	390.0	535.0	535	410.0	268.0	185	-	100	153.0	325	305	195.0	129
400	400	16	APS210	972.0	458.0	595.0	595	435.0	300.0	206	-	100	176.0	353	350	326.0	169
450	450	18	APS240	1077.0	458.0	635.0	635	520.0	320.0	206	-	130	176.0	393	390	263.0	179
500	500	20	APS240	1173.0	525.0	700.0	700	550.0	350.0	230	-	130	206.0	444	440	263.0	190
600	630	24	APS270	1303.0	525.0	813.0	813	610.0	420.0	300	-	130	206.0	530	527	263.0	209

PVC-U

Wafer-style intermediate installation butterfly valve type 240 PVC-U, without manual override, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 240 002	199 240 022	199 240 042	199 240 062
65	75	2 ½	10	199 240 003	199 240 023	199 240 043	199 240 063
80	90	3	10	199 240 004	199 240 024	199 240 044	199 240 064
100	110	4	10	199 240 005	199 240 025	199 240 045	199 240 065
125	140	5	10	199 240 006	199 240 026	199 240 046	199 240 066
150	160	6	10	199 240 007	199 240 027	199 240 047	199 240 067
200	225	8	10	199 240 008	199 240 028	199 240 048	199 240 068
250	280	10	10	199 240 009	199 240 029	199 240 049	199 240 069
300	315	12	10	199 240 010	199 240 030	199 240 050	199 240 070



PVC-C

Wafer-style intermediate installation butterfly valve type 240 PVC-C, without manual override, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)			FO (Fail safe to open)		
				EPDM Code	FKM Code	PTFE Code	EPDM Code	FKM Code	PTFE Code
50	63	2	10	199 240 162	199 240 182	199 240 642	199 240 202	199 240 222	199 240 662
65	75	2 ½	10	199 240 163	199 240 183	199 240 643	199 240 203	199 240 223	199 240 663
80	90	3	10	199 240 164	199 240 184	199 240 644	199 240 204	199 240 224	199 240 664
100	110	4	10	199 240 165	199 240 185	199 240 645	199 240 205	199 240 225	199 240 665
125	140	5	10	199 240 166	199 240 186	199 240 646	199 240 206	199 240 226	199 240 666
150	160	6	10	199 240 167	199 240 187	199 240 647	199 240 207	199 240 227	199 240 667
200	225	8	10	199 240 168	199 240 188	199 240 648	199 240 208	199 240 228	199 240 668



ABS

ABS Wafer-style intermediate installation butterfly valve type 240, without manual override, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code		EPDM Code	
50	63	2	10	199 240 402		199 240 422	
65	75	2 ½	10	199 240 403		199 240 423	
80	90	3	10	199 240 404		199 240 424	
100	110	4	10	199 240 405		199 240 425	
125	140	5	10	199 240 406		199 240 426	
150	160	6	10	199 240 407		199 240 427	
200	225	8	10	199 240 408		199 240 428	
250	280	10	10	199 240 409		-	
300	315	12	5	199 240 410		-	



PROGEF PP-H

PROGEF Standard Wafer-style intermediate installation butterfly valve type 240, without manual override, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)			FO (Fail safe to open)		
				EPDM Code	FKM Code	PTFE Code	EPDM Code	FKM Code	PTFE Code
50	63	2	10	199 240 282	199 240 302	199 240 702	199 240 322	199 240 342	199 240 722
65	75	2 ½	10	199 240 283	199 240 303	199 240 703	199 240 323	199 240 343	199 240 723
80	90	3	10	199 240 284	199 240 304	199 240 704	199 240 324	199 240 344	199 240 724
100	110	4	10	199 240 285	199 240 305	199 240 705	199 240 325	199 240 345	199 240 725
125	140	5	10	199 240 286	199 240 306	199 240 706	199 240 326	199 240 346	199 240 726
150	160	6	10	199 240 287	199 240 307	199 240 707	199 240 327	199 240 347	199 240 727
200	225	8	10	199 240 288	199 240 308	199 240 708	199 240 328	199 240 348	199 240 728
250	280	10	8	199 240 289	199 240 309	199 240 709	199 240 329	199 240 349	199 240 729
300	315	12	5	199 240 290	199 240 310	199 240 710	199 240 330	199 240 350	199 240 730
350	355	14	6	199 240 291	199 240 311	199 240 711	199 240 331	199 240 351	199 240 731
400	400	16	6	199 240 292	199 240 312	199 240 712	199 240 332	199 240 352	199 240 732
450	450	18	5	199 240 293	199 240 313	199 240 713	199 240 333	199 240 353	199 240 733
500	500	20	4	199 240 294	199 240 314	199 240 714	199 240 334	199 240 354	199 240 734
600	630	24	4	199 240 295	199 240 315	199 240 715	199 240 335	199 240 355	199 240 735



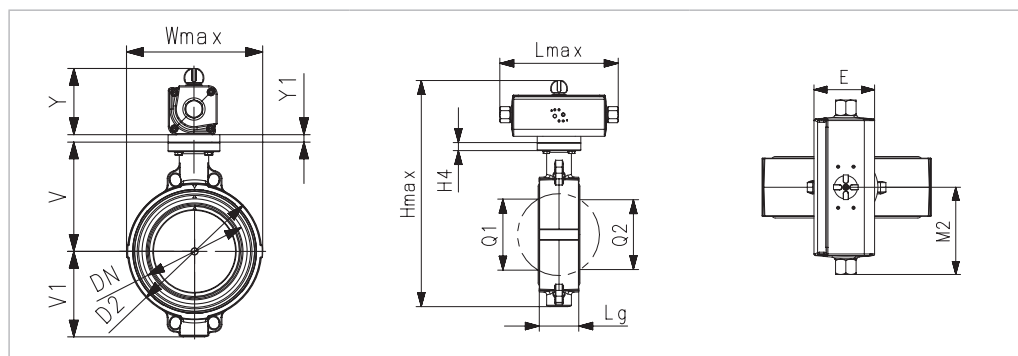
SYGEF PVDF

SYGEF Standard Wafer-style intermediate installation butterfly valve type 240, without manual override, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				FKM Code	PTFE Code	FKM Code	PTFE Code
50	63	2	10	199 240 462	199 240 522	199 240 482	199 240 542
65	75	2 ½	10	199 240 463	199 240 523	199 240 483	199 240 543
80	90	3	10	199 240 464	199 240 524	199 240 484	199 240 544
100	110	4	10	199 240 465	199 240 525	199 240 485	199 240 545
125	140	5	10	199 240 466	199 240 526	199 240 486	199 240 546
150	160	6	10	199 240 467	199 240 527	199 240 487	199 240 547
200	225	8	10	199 240 468	199 240 528	199 240 488	199 240 548
250	280	10	10	199 240 469	199 240 529	199 240 489	199 240 549
300	315	12	10	199 240 470	199 240 530	199 240 490	199 240 550



Butterfly Valve type 240 wafer-style, DN50 – DN600, with pneumatic actuator DA



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	V (mm)	V1 (mm)	Y (mm)	Y1 (mm)	H4 (mm)	E (mm)	Q1 (mm)	Q2 (mm)	M2 (mm)	Lg (mm)
50	63	2	PA30	319.4	196.2	118.4	104	133.3	78.8	92.3	15.0	23	64.5	40	-	98.1	45
65	75	2 ½	PA30	332.3	196.2	132.5	115	139.9	85.1	92.3	15.0	23	64.5	54	35	98.1	46
80	90	3	PA35	350.0	205.6	136.8	131	145.6	91.2	98.2	15.0	23	70.4	67	50	102.8	49
100	110	4	PA40	383.3	242.0	161.0	161	166.4	105.7	111.2	-	23	83.3	88	74	121.0	56
125	140	5	PA45	410.0	242.0	187.0	187	180.0	118.8	111.2	-	23	83.3	113	97	121.0	64
150	160	6	PA50	469.4	290.0	215.0	215	189.0	130.9	149.5	-	23	107.5	139	123	145.0	72
200	225	8	PA55	518.3	290.0	267.0	267	210.5	158.3	149.5	-	23	107.5	178	169	145.0	73
250	280	10	PA65	646.9	339.6	329.0	329	262.6	206.1	160.0	18.2	23	107.5	210	207	169.8	113
300	315	12	PA65	691.4	339.6	380.4	379	284.3	228.8	160.0	18.2	23	118.0	256	253	169.8	113
350	355	14	APS190	887.0	390.0	535.0	535	410.0	268.0	209.0	-	100	153.0	325	305	195.0	129
400	400	16	APS210	972.0	458.0	595.0	595	435.0	300.0	234.0	-	100	176.0	353	350	326.0	169
450	450	18	APS240	1077.0	458.0	635.0	635	520.0	320.0	234.0	-	130	176.0	393	390	326.0	179
500	500	20	APS240	1173.0	525.0	700.0	700	550.0	350.0	270.0	-	130	206.0	444	440	263.0	190
600	630	24	APS270	1303.0	525.0	813.0	813	610.0	420.0	270.0	-	130	206.0	530	527	263.0	209

PVC-U

Wafer-style intermediate installation butterfly valve type 240 PVC-U, with pneumatic actuator - double acting (DA), without manual override, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)		DA (Double acting) Oilfree	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 240 082	199 240 102	199 240 882	199 240 902
65	75	2 ½	10	199 240 083	199 240 103	199 240 883	199 240 903
80	90	3	10	199 240 084	199 240 104	199 240 884	199 240 904
100	110	4	10	199 240 085	199 240 105	199 240 885	199 240 905
125	140	5	10	199 240 086	199 240 106	199 240 886	199 240 906
150	160	6	10	199 240 087	199 240 107	199 240 887	199 240 907
200	225	8	10	199 240 088	199 240 108	199 240 888	199 240 908
250	280	10	10	199 240 089	199 240 109	-	-
300	315	12	10	199 240 090	199 240 110	-	-



PVC-C

Wafer-style intermediate installation butterfly valve type 240 PVC-C, with pneumatic actuator - double acting (DA), without manual override, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)		
				EPDM Code	FKM Code	FKM Code
50	63	2	10	199 240 242	199 240 262	199 240 682
65	75	2 ½	10	199 240 243	199 240 263	199 240 683
80	90	3	10	199 240 244	199 240 264	199 240 684
100	110	4	10	199 240 245	199 240 265	199 240 685
125	140	5	10	199 240 246	199 240 266	199 240 686
150	160	6	10	199 240 247	199 240 267	199 240 687
200	225	8	10	199 240 248	199 240 268	199 240 688



ABS

Wafer-style intermediate installation butterfly valve type 240 ABS, with pneumatic actuator - double acting (DA), without manual override, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	
50	63	2	10	199 240 442	
65	75	2 ½	10	199 240 443	
80	90	3	10	199 240 444	
100	110	4	10	199 240 445	
125	140	5	10	199 240 446	
150	160	6	10	199 240 447	
200	225	8	10	199 240 448	



PROGEF PP-H

PROGEF Standard Wafer-style intermediate installation butterfly valve type 240, with pneumatic actuator - double acting (DA), without manual override, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)		
				EPDM Code	FKM Code	PTFE Code
50	63	2	10	199 240 362	199 240 382	199 240 742
65	75	2 ½	10	199 240 363	199 240 383	199 240 743
80	90	3	10	199 240 364	199 240 384	199 240 744
100	110	4	10	199 240 365	199 240 385	199 240 745
125	140	5	10	199 240 366	199 240 386	199 240 746
150	160	6	10	199 240 367	199 240 387	199 240 747
200	225	8	10	199 240 368	199 240 388	199 240 748
250	280	10	8	199 240 369	199 240 389	199 240 749
300	315	12	5	199 240 370	199 240 390	199 240 750
350	355	14	6	199 240 371	199 240 391	199 240 751
400	400	16	6	199 240 372	199 240 392	199 240 752
450	450	18	5	199 240 373	199 240 393	199 240 753
500	500	20	4	199 240 374	199 240 394	199 240 754
600	630	24	4	199 240 375	199 240 395	199 240 755



SYGEF PVDF

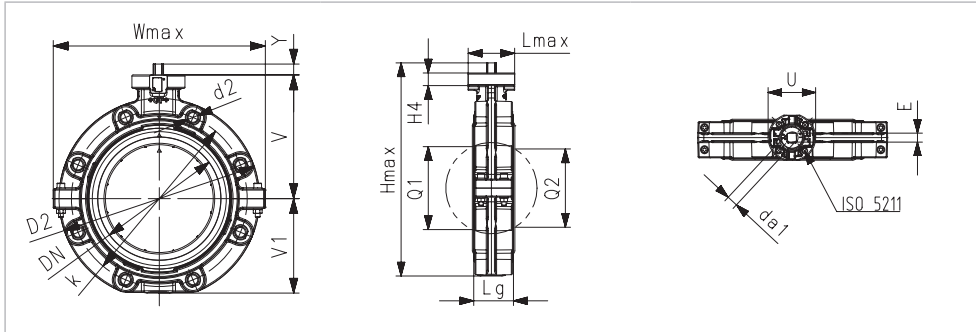
SYGEF Standard Wafer-style intermediate installation butterfly valve type 240, with pneumatic actuator - double acting (DA), without manual override, Flange standard metric/ANSI/BS/JIS

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				FKM Code	PTFE Code
50	63	2	10	199 240 502	199 240 562
65	75	2 ½	10	199 240 503	199 240 563
80	90	3	10	199 240 504	199 240 564
100	110	4	10	199 240 505	199 240 565
125	140	5	10	199 240 506	199 240 566
150	160	6	10	199 240 507	199 240 567
200	225	8	10	199 240 508	199 240 568
250	280	10	10	199 240 509	199 240 569
300	315	12	10	199 240 510	199 240 570



Dimensions and ordering - Type 568 Lug-Style

Butterfly Valve type 578 lug-style, DN50 – DN300, with open shaft end



DN (mm)	d (mm)	Inch (")	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	V1 (mm)	V (mm)	Y (mm)	Lg (mm)	H4 (mm)	Q1 (mm)	Q2 (mm)	k _{ISO} (mm)	k _{ANSI} (mm)	d2 _{ISO} (mm)	d2 _{ANSI} (")	E (mm)	da1 (mm)	U (mm)
50	63	2	238.3	84.8	159.5	160	78.8	133.3	26.2	44.7	23	40	35	125	120.6	M16	UNC 5/8	11	13.5	90
65	75	2 1/2	251.2	84.8	166.1	180	85.1	139.9	26.2	45.7	23	54	35	145	139.7	M16	UNC 5/8	11	13.5	90
80	90	3	263.0	84.8	187.8	195	91.2	145.6	15.4	48.7	23	67	50	160	152.4	M16	UNC 5/8	11	13.5	90
100	110	4	288.9	84.8	181.4	226	107.5	166.0	15.4	55.6	23	88	74	180	190.5	M16	UNC 5/8	14	17.3	90
125	140	5	318.1	84.8	195.4	258	122.7	180.0	15.4	63.5	23	113	97	210	215.9	M16	UNC 3/4	14	17.3	90
150	160	6	341.9	84.8	207.4	284	134.5	189.0	18.4	71.5	23	139	123	240	241.3	M20	UNC 3/4	17	21.1	90
200	225	8	390.4	84.8	228.9	341	161.5	210.5	18.4	72.5	23	178	169	295	298.4	M20	UNC 3/4	17	21.1	90
250	280	10	511.5	125.0	304.6	412	206.9	264.4	40.2	113.2	23	210	207	350	362.0	M20	UNC 7/8	22	27.0	125
300	315	12	560.9	125.0	325.4	482	235.5	285.2	40.2	114.6	23	256	253	400	431.8	M20	UNC 7/8	22	27.0	125

PVC-U

Lug-style end installation butterfly valve type 578 PVC-U, Bare shaft

Dimensions				PVC-U			
DN (mm)	d (mm)	Inch (")	PN (bar)	Metric	ANSI/ASME		
				EPDM code	FKM code	EPDM code	FKM code
50	63	2	10	161 578 802	161 578 822	161 578 902	161 578 922
65	75	2 1/2	10	161 578 803	161 578 823	161 578 903	161 578 923
80	90	3	10	161 578 804	161 578 824	161 578 904	161 578 924
100	110	4	10	161 578 805	161 578 825	161 578 905	161 578 925
125	140	5	10	161 578 806	161 578 826	161 578 906	161 578 926
150	160	6	10	161 578 807	161 578 827	161 578 907	161 578 927
200	225	8	10	161 578 808	161 578 828	161 578 908	161 578 928
250	280	10	10	161 578 809	161 578 829	161 578 909	161 578 929
300	315	12	10	161 578 810	161 578 830	161 578 910	161 578 930



PVC-C

Lug-style end installation butterfly valve type 578 PVC-C, Bare shaft

Dimensions				PVC-U			
DN (mm)	d (mm)	Inch (")	PN (bar)	Metric	ANSI/ASME		
				EPDM code	FKM code	EPDM code	FKM code
50	63	2	10	163 578 802	163 578 822	163 578 902	163 578 922
65	75	2 1/2	10	163 578 803	163 578 823	163 578 903	163 578 923
80	90	3	10	163 578 804	163 578 824	163 578 904	163 578 924
100	110	4	10	163 578 805	163 578 825	163 578 905	163 578 925
125	140	5	10	163 578 806	163 578 826	163 578 906	163 578 926
150	160	6	10	163 578 807	163 578 827	163 578 907	163 578 927
200	225	8	10	163 578 808	163 578 828	163 578 908	163 578 928
250	280	10	10	163 578 809	163 578 829	163 578 909	163 578 929
300	315	12	10	163 578 810	163 578 830	163 578 910	163 578 930



ABS

ABS Lug-style end installation butterfly valve type 578, Bare shaft

Dimensions				ABS	
DN (mm)	d (mm)	Inch (")	PN (bar)	Metric EPDM code	ANSI/ASME EPDM code
50	63	2	10	169 578 802	169 578 902
65	75	2 ½	10	169 578 803	169 578 903
80	90	3	10	169 578 804	169 578 904
100	110	4	10	169 578 805	169 578 905
125	140	5	10	169 578 806	169 578 906
150	160	6	10	169 578 807	169 578 907
200	225	8	10	169 578 808	169 578 908
250	280	10	10	169 578 809	169 578 909
300	315	12	10	169 578 810	169 578 910



PROGEF PP-H

PROGEF Standard Lug-style end installation butterfly valve type 578, Bare Shaft

Dimensions				PROGEF Standard PP			
DN (mm)	d (mm)	Inch (")	PN (bar)	Metric		ANSI/ASME	
				EPDM code	FKM code	EPDM code	FKM code
50	63	2	10	167 578 802	167 578 822	167 578 902	167 578 922
65	75	2 ½	10	167 578 803	167 578 823	167 578 903	167 578 923
80	90	3	10	167 578 804	167 578 824	167 578 904	167 578 924
100	110	4	10	167 578 805	167 578 825	167 578 905	167 578 925
125	140	5	10	167 578 806	167 578 826	167 578 906	167 578 926
150	160	6	10	167 578 807	167 578 827	167 578 907	167 578 927
200	225	8	10	167 578 808	167 578 828	167 578 908	167 578 928
250	280	10	10	167 578 809	167 578 829	167 578 909	167 578 929
300	315	12	10	167 578 810	167 578 830	167 578 910	167 578 930



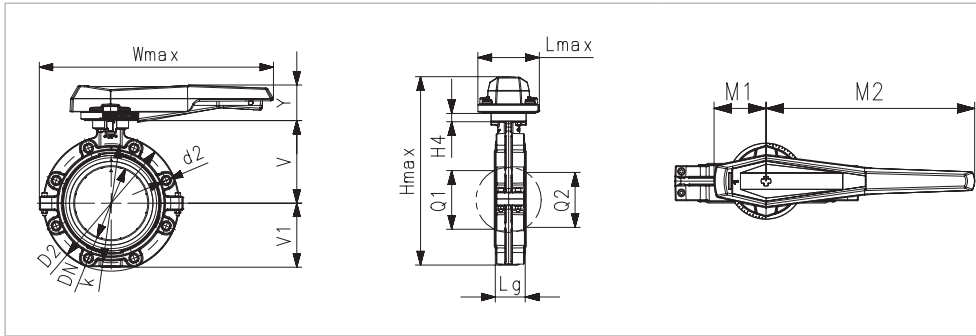
SYGEF PVDF

SYGEF Standard Lug-style end installation butterfly valve type 578, Bare shaft

Dimensions				SYGEF Standard PVDF			
DN (mm)	d (mm)	Inch (")	PN (bar)	Metric		ANSI/ASME	
				FKM code	PTFE code	FKM code	PTFE code
50	63	2	10	175 578 822	175 578 842	175 578 922	175 578 942
65	75	2 ½	10	175 578 823	175 578 843	175 578 923	175 578 943
80	90	3	10	175 578 824	175 578 844	175 578 924	175 578 944
100	110	4	10	175 578 825	175 578 845	175 578 925	175 578 945
125	140	5	10	175 578 826	175 578 846	175 578 926	175 578 946
150	160	6	10	175 578 827	175 578 847	175 578 927	175 578 947
200	225	8	10	175 578 828	175 578 848	175 578 928	175 578 948
250	280	10	10	175 578 829	175 578 849	175 578 929	175 578 949
300	315	12	10	175 578 830	175 578 850	175 578 930	175 578 950



Butterfly Valve type 578 lug-style, DN50 – DN300, with hand lever



DN (mm)	d (mm)	Inch (")	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	V1 (mm)	V (mm)	Y (mm)	Lg (mm)	H4 (mm)	Q1 (mm)	Q2 (mm)	k _{ISO} (mm)	k _{ANSI} (mm)	d2 _{ISO} (mm)	d2 _{ANSI} (")	M1 (mm)	M2 (mm)
50	63	2	278.9	115.2	287.8	160	78.8	133.3	66.8	44.7	23	40		125	120.6	M16	UNC 5/8	63.7	205.3
65	75	2 1/2	291.8	115.2	296.3	180	85.1	139.9	66.8	45.7	23	54	35	145	139.7	M16	UNC 5/8	63.7	205.3
80	90	3	303.6	115.2	310.3	195	91.2	145.6	66.8	48.7	23	67	50	160	152.4	M16	UNC 5/8	63.7	205.3
100	110	4	343.6	115.2	375.2	226	107.5	166.0	70.1	55.6	23	88	74	180	190.5	M16	UNC 5/8	63.7	205.3
125	140	5	372.8	115.2	391.2	258	122.7	180.0	70.1	63.5	23	113	97	210	215.9	M16	UNC 3/4	63.7	205.3
150	160	6	393.6	115.2	395.2	284	134.5	189.0	70.1	71.5	23	139	123	240	241.3	M20	UNC 3/4	63.7	205.3
200	225	8	458.1	149.4	588.1	341	161.5	210.5	86.1	72.5	23	178	169	295	298.4	M20	UNC 3/4	101.7	408.1
250	280	10	557.6	149.4	628.1	412	206.9	264.4	86.3	113.2	23	210	207	350	362.0	M20	UNC 3/4	101.7	408.1
300	315	12	607.0	149.4	663.1	482	235.5	285.2	86.3	114.6	23	256	253	400	431.8	M20	UNC 3/4	101.7	408.1

PVC-U

Lug-style end installation butterfly valve type 578 PVC-U, with hand lever

Dimensions			PVC-U				PVC-U silicone free			
DN (mm)	d (mm)	Inch (")	PN (bar)	Metric	ANSI/ASME		Metric	ANSI/ASME		
				EPDM code	FKM code	EPDM code	FKM code	EPDM code	FKM code	EPDM code
50	63	2	10	161 578 002	161 578 022	161 578 102	161 578 122	161 578 402	161 578 422	161 578 502
65	75	2 1/2	10	161 578 003	161 578 023	161 578 103	161 578 123	161 578 403	161 578 423	161 578 503
80	90	3	10	161 578 004	161 578 024	161 578 104	161 578 124	161 578 404	161 578 424	161 578 504
100	110	4	10	161 578 005	161 578 025	161 578 105	161 578 125	161 578 405	161 578 425	161 578 505
125	140	5	10	161 578 006	161 578 026	161 578 106	161 578 126	161 578 406	161 578 426	161 578 506
150	160	6	10	161 578 007	161 578 027	161 578 107	161 578 127	161 578 407	161 578 427	161 578 507
200	225	8	10	161 578 008	161 578 028	161 578 108	161 578 128	161 578 408	161 578 428	161 578 508
250	280	10	10	161 578 009	161 578 029	161 578 109	161 578 129	161 578 409	161 578 429	161 578 509
300	315	12	10	161 578 010	161 578 030	161 578 110	161 578 130	161 578 410	161 578 430	161 578 510



PVC-C

Lug-style end installation butterfly valve type 578 PVC-C, with hand lever

Dimensions			PVC-C			
DN (mm)	d (mm)	Inch (")	PN (bar)	Metric	ANSI/ASME	
				EPDM code	FKM code	PTFE code
50	63	2	10	163 578 002	163 578 022	163 578 302
65	75	2 1/2	10	163 578 003	163 578 023	163 578 303
80	90	3	10	163 578 004	163 578 024	163 578 304
100	110	4	10	163 578 005	163 578 025	163 578 305
125	140	5	10	163 578 006	163 578 026	163 578 306
150	160	6	10	163 578 007	163 578 027	163 578 307
200	225	8	10	163 578 008	163 578 028	163 578 308
250	280	10	10	163 578 009	163 578 029	163 578 309
300	315	12	10	163 578 010	163 578 030	163 578 310



ABS

ABS Lug-style end installation butterfly valve type 578, with hand lever

Dimensions				ABS	
DN	d	Inch	PN	Metric	ANSI/ASME
(mm)	(mm)	(")	(bar)	EPDM code	EPDM code
50	63	2	10	169 578 002	169 578 102
65	75	2 ½	10	169 578 003	169 578 103
80	90	3	10	169 578 004	169 578 104
100	110	4	10	169 578 005	169 578 105
125	140	5	10	169 578 006	169 578 106
150	160	6	10	169 578 007	169 578 107
200	225	8	10	169 578 008	169 578 108
250	280	10	10	169 578 009	169 578 109
300	315	12	10	169 578 010	169 578 110

**PROGEF PP-H**

PROGEF Standard Lug-style end installation butterfly valve type 578, with hand lever

Dimensions				PROGEF Standard PP				PROGEF Plus PP			
DN	d	Inch	PN	Metric		ANSI/ASME		Metric		ANSI/ASME	
(mm)	(mm)	(")	(bar)	EPDM code	FKM code	EPDM code	FKM code	EPDM code	FKM code	EPDM code	FKM code
50	63	2	10	167 578 002	167 578 022	167 578 102	167 578 122	167 578 402	167 578 422	167 578 502	167 578 522
65	75	2 ½	10	167 578 003	167 578 023	167 578 103	167 578 123	167 578 403	167 578 423	167 578 503	167 578 523
80	90	3	10	167 578 004	167 578 024	167 578 104	167 578 124	167 578 404	167 578 424	167 578 504	167 578 524
100	110	4	10	167 578 005	167 578 025	167 578 105	167 578 125	167 578 405	167 578 425	167 578 505	167 578 525
125	140	5	10	167 578 006	167 578 026	167 578 106	167 578 126	167 578 406	167 578 426	167 578 506	167 578 526
150	160	6	10	167 578 007	167 578 027	167 578 107	167 578 127	167 578 407	167 578 427	167 578 507	167 578 527
200	225	8	10	167 578 008	167 578 028	167 578 108	167 578 128	167 578 408	167 578 428	167 578 508	167 578 528
250	280	10	10	167 578 009	167 578 029	167 578 109	167 578 129	167 578 409	167 578 429	167 578 509	167 578 529
300	315	12	10	167 578 010	167 578 030	167 578 110	167 578 130	167 578 410	167 578 430	167 578 510	167 578 530

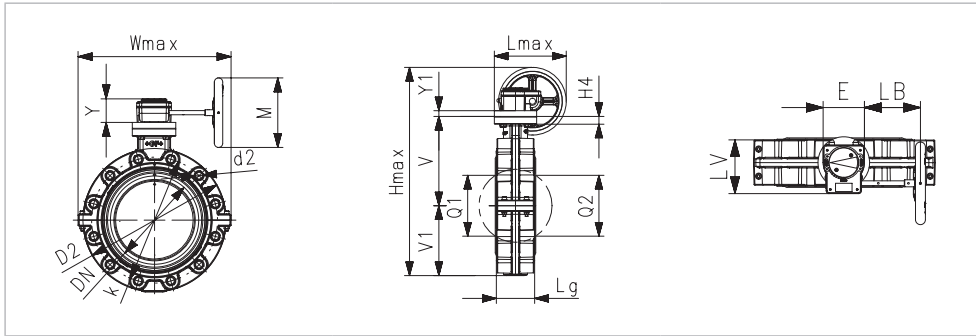
**SYGEF PVDF**

SYGEF Standard Lug-style end installation butterfly valve type 578, with hand lever

Dimensions				SYGEF Standard PVDF			
DN	d	Inch	PN	Metric		ANSI/ASME	
(mm)	(mm)	(")	(bar)	FKM code	PTFE code	FKM code	PTFE code
50	63	2	10	175 578 002	175 578 202	175 578 102	175 578 302
65	75	2 ½	10	175 578 003	175 578 203	175 578 103	175 578 303
80	90	3	10	175 578 004	175 578 204	175 578 104	175 578 304
100	110	4	10	175 578 005	175 578 205	175 578 105	175 578 305
125	140	5	10	175 578 006	175 578 206	175 578 106	175 578 306
150	160	6	10	175 578 007	175 578 207	175 578 107	175 578 307
200	225	8	10	175 578 008	175 578 208	175 578 108	175 578 308
250	280	10	10	175 578 009	175 578 209	175 578 109	175 578 309
300	315	12	10	175 578 010	175 578 210	175 578 110	175 578 310



Butterfly Valve type 578 lug-style, DN50 – DN300, with manual reduction gear



DN (mm)	d (mm)	Inch (")	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	H4 (mm)	V1 (mm)	V (mm)	Y (mm)	Y1 (mm)	Lg (mm)	Q1 (mm)	Q2 (mm)	E (mm)	M (mm)	LV (mm)	LB (mm)	k _{ISO} (mm)	k _{ANSI} (mm)	d2 _{ISO} (mm)	d2 _{ANSI} (")
50	63	2	319.4	263.5	263.5	160	23	78.8	133.3	61.2		44.7	40		80	160	112.3	129.5	125	120.6	M16	UNC 5/8
65	75	2 1/2	332.3	272.0	272.0	180	23	85.1	139.9	61.2		45.7	54	35	80	160	112.3	129.5	145	139.7	M16	UNC 5/8
80	90	3	344.1	286.0	286.0	195	23	91.2	145.6	61.2		48.7	67	50	80	160	112.3	129.5	160	152.4	M16	UNC 5/8
100	110	4	380.8	301.0	301.0	226	23	107.5	166.0	61.2		55.6	88	74	80	160	112.3	129.5	180	190.5	M16	UNC 5/8
125	140	5	410.0	317.0	317.0	258	23	122.7	180.0	61.2		63.5	113	97	80	160	112.3	129.5	210	215.9	M16	UNC 3/4
150	160	6	430.8	321.0	321.0	284	23	134.5	189.0	61.2		71.5	139	123	80	160	112.3	129.5	240	241.3	M20	UNC 3/4
200	225	8	479.3	360.0	360.0	341	23	161.5	210.5	61.2		72.5	178	169	80	160	112.3	129.5	295	298.4	M20	UNC 3/4
250	280	10	615.6	440.0	440.0	412	23	206.9	264.4	68.4	17	113.2	210	207	100	200	130.0	134.0	350	362.0	M20	UNC 7/8
300	315	12	665.0	510.0	510.0	482	23	235.5	285.2	68.4	17	114.6	256	253	100	200	130.0	134.0	400	431.8	M20	UNC 7/8

PVC-U

Lug-style end installation butterfly valve type 578 PVC-U, with gear box

Dimensions		PVC-U							
DN	d	Inch	PN	Metric		ANSI/ASME			
(mm)	(mm)	(")	(bar)	EPDM code	FKM code	EPDM code	FKM code		
50	63	2	10	161 578 042	161 578 062	161 578 142	161 578 162		
65	75	2 1/2	10	161 578 043	161 578 063	161 578 143	161 578 163		
80	90	3	10	161 578 044	161 578 064	161 578 144	161 578 164		
100	110	4	10	161 578 045	161 578 065	161 578 145	161 578 165		
125	140	5	10	161 578 046	161 578 066	161 578 146	161 578 166		
150	160	6	10	161 578 047	161 578 067	161 578 147	161 578 167		
200	225	8	10	161 578 048	161 578 068	161 578 148	161 578 168		
250	280	10	10	161 578 049	161 578 069	161 578 149	161 578 169		
300	315	12	10	161 578 050	161 578 070	161 578 150	161 578 170		



PVC-C

Lug-style end installation butterfly valve type 578 PVC-C, with gear box

Dimensions		PVC-C							
DN	d	Inch	PN	Metric		ANSI/ASME			
(mm)	(mm)	(")	(bar)	EPDM code	FKM code	EPDM code	FKM code		
50	63	2	10	163 578 042	163 578 062	163 578 142	163 578 162		
65	75	2 1/2	10	163 578 043	163 578 063	163 578 143	163 578 163		
80	90	3	10	163 578 044	163 578 064	163 578 144	163 578 164		
100	110	4	10	163 578 045	163 578 065	163 578 145	163 578 165		
125	140	5	10	163 578 046	163 578 066	163 578 146	163 578 166		
150	160	6	10	163 578 047	163 578 067	163 578 147	163 578 167		
200	225	8	10	163 578 048	163 578 068	163 578 148	163 578 168		
250	280	10	10	163 578 049	163 578 069	163 578 149	163 578 169		
300	315	12	10	163 578 050	163 578 070	163 578 150	163 578 170		



ABS

ABS Lug-style end installation butterfly valve type 578, with gear box

Dimensions		ABS			
DN	d	Inch	PN	Metric	ANSI/ASME
(mm)	(mm)	(")	(bar)	EPDM code	EPDM code
50	63	2	10	169 578 022	169 578 122
65	75	2 1/2	10	169 578 023	169 578 123
80	90	3	10	169 578 024	169 578 124
100	110	4	10	169 578 025	169 578 125
125	140	5	10	169 578 026	169 578 126
150	160	6	10	169 578 027	169 578 127
200	225	8	10	169 578 028	169 578 128
250	280	10	10	169 578 029	169 578 129
300	315	12	10	169 578 030	169 578 130



PROGEF PP-H

PROGEF Standard Lug-style end installation butterfly valve type 578, with gear box

Dimensions				PROGEF Standard PP			
DN	d	Inch	PN	Metric		ANSI/ASME	
(mm)	(mm)	(")	(bar)	EPDM code	FKM code	EPDM code	FKM code
50	63	2	10	167 578 042	167 578 062	167 578 142	167 578 162
65	75	2 ½	10	167 578 043	167 578 063	167 578 143	167 578 163
80	90	3	10	167 578 044	167 578 064	167 578 144	167 578 164
100	110	4	10	167 578 045	167 578 065	167 578 145	167 578 165
125	140	5	10	167 578 046	167 578 066	167 578 146	167 578 166
150	160	6	10	167 578 047	167 578 067	167 578 147	167 578 167
200	225	8	10	167 578 048	167 578 068	167 578 148	167 578 168
250	280	10	10	167 578 049	167 578 069	167 578 149	167 578 169
300	315	12	10	167 578 050	167 578 070	167 578 150	167 578 170



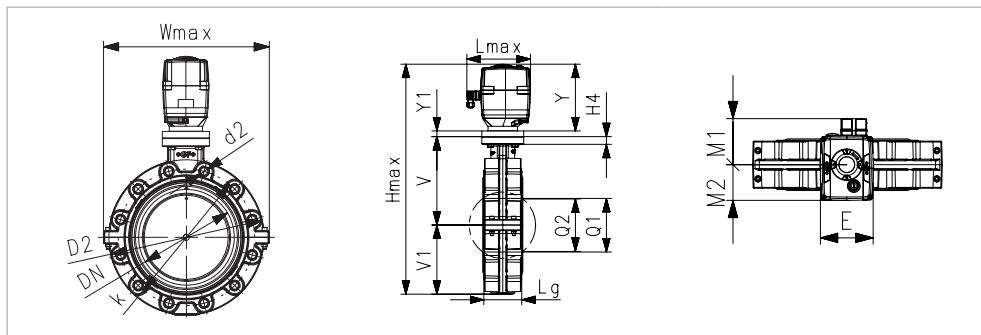
SYGEF PVDF

SYGEF Standard Lug-style end installation butterfly valve type 578, with gear box

Dimensions				SYGEF Standard PVDF			
DN	d	Inch	PN	Metric		ANSI/ASME	
(mm)	(mm)	(")	(bar)	FKM code	PTFE code	FKM code	PTFE code
50	63	2	10	175 578 022	175 578 222	175 578 122	175 578 322
65	75	2 ½	10	175 578 023	175 578 223	175 578 123	175 578 323
80	90	3	10	175 578 024	175 578 224	175 578 124	175 578 324
100	110	4	10	175 578 025	175 578 225	175 578 125	175 578 325
125	140	5	10	175 578 026	175 578 226	175 578 126	175 578 326
150	160	6	10	175 578 027	175 578 227	175 578 127	175 578 327
200	225	8	10	175 578 028	175 578 228	175 578 128	175 578 328
250	280	10	10	175 578 029	175 578 229	175 578 129	175 578 329
300	315	12	10	175 578 030	175 578 230	175 578 130	175 578 330



Butterfly Valve type 146 lug-style metric, DN50 – DN200, with electric actuator, without manual override



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	Lg (mm)	V1 (mm)	V (mm)	Y (mm)	Y1 (mm)	E (mm)	Q1 (mm)	Q2 (mm)	H4 (mm)	M1 (mm)	M2 (mm)	k _{ISO} (mm)	d _{ISO} (mm)
50	63	2	EA45	378.3	190	165	160	44.7	78.8	133.3	166.2	-	122.3	40	-	23	107.3	82.7	125	M16
65	75	2 ½	EA45	391.2	190	182	180	45.7	85.1	139.9	166.2	-	122.3	54	35	23	107.3	82.7	145	M16
80	90	3	EA120	426.1	190	210	195	48.7	91.2	145.6	189.3	-	122.3	67	50	23	107.3	82.7	160	M16
100	110	4	EA120	462.8	190	240	225	55.6	107.5	166.4	189.3	-	122.3	88	74	23	107.3	82.7	180	M16
125	140	5	EA120	492.0	190	272	258	63.5	122.7	180.0	189.3	-	122.3	113	97	23	107.3	82.7	210	M16
150	160	6	EA120	522.8	190	300	284	71.5	134.5	189.0	189.3	-	122.3	139	123	23	107.3	82.7	240	M20
200	225	8	EA250	571.3	190	360	341	72.5	161.5	210.5	199.3	-	122.3	178	169	23	107.3	82.7	295	M20
250	280	10	EA250	670.6	190	440	412	113.2	206.9	264.4	199.3	17	122.3	210	207	23	107.3	82.7	350	M20
300	315	12	EA250	720.0	190	510	482	114.6	235.5	285.2	199.3	17	122.3	256	253	23	107.3	82.7	400	M20

PVC-U

Lug-Style end installation butterfly valve type 146 PVC-U, without manual override, Flange standard metric

Dimensions				EA voltage 24 V	EA voltage 100-230 V
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	EPDM Code
50	63	2	10	199 146 122	199 146 042
65	75	2 ½	10	199 146 123	199 146 043
80	90	3	10	199 146 124	199 146 044
100	110	4	10	199 146 125	199 146 045
125	140	5	10	199 146 126	199 146 046
150	160	6	10	199 146 127	199 146 047
200	225	8	10	199 146 128	199 146 048
250	280	10	6	199 146 129	199 146 049
300	315	12	4	199 146 130	199 146 050



PVC-C

Lug-Style end installation butterfly valve type 146 PVC-C, without manual override, Flange standard metric

Dimensions				EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	PTFE Code
50	63	2	10	199 146 202	199 146 722
65	75	2 ½	10	199 146 203	199 146 723
80	90	3	10	199 146 204	199 146 724
100	110	4	10	199 146 205	199 146 725
125	140	5	10	199 146 206	199 146 726
150	160	6	10	199 146 207	199 146 727
200	225	8	10	199 146 208	199 146 728
250	280	10	6	199 146 209	-
300	315	12	4	199 146 210	-



ABS

ABS Lug-Style end installation butterfly valve type 146, without manual override, Flange standard metric

Dimensions				EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	
50	63	2	10	199 146 502	
65	75	2 ½	10	199 146 503	
80	90	3	10	199 146 504	
100	110	4	10	199 146 505	
125	140	5	10	199 146 506	
150	160	6	10	199 146 507	
200	225	8	10	199 146 508	
250	280	10	6	199 146 509	
300	315	12	4	199 146 510	



PROGEF PP-H

PROGEF Standard Lug-style end installation butterfly valve type 146, without manual override, Flange standard metric

Dimensions				EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	PTFE Code
50	63	2	10	199 146 362	199 146 802
65	75	2 ½	10	199 146 363	199 146 803
80	90	3	10	199 146 364	199 146 804
100	110	4	10	199 146 365	199 146 805
125	140	5	10	199 146 366	199 146 806
150	160	6	10	199 146 367	199 146 807
200	225	8	10	199 146 368	199 146 808
250	280	10	6	199 146 369	-
300	315	12	4	199 146 370	-



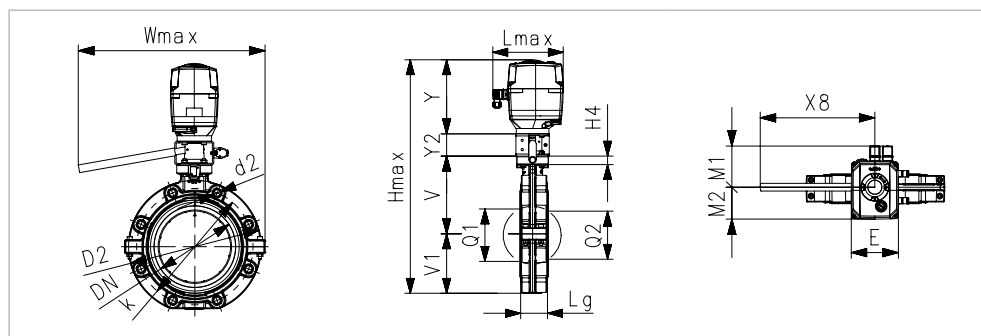
SYGEF PVDF

SYGEF Standard Lug-style end installation butterfly valve type 146, without manual override, Flange standard metric

Dimensions				EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	FKM Code	PTFE Code
50	63	2	10	199 146 582	199 146 642
65	75	2 ½	10	199 146 583	199 146 643
80	90	3	10	199 146 584	199 146 644
100	110	4	10	199 146 585	199 146 645
125	140	5	10	199 146 586	199 146 646
150	160	6	10	199 146 587	199 146 647
200	225	8	10	199 146 588	199 146 648
250	280	10	6	199 146 589	-
300	315	12	4	199 146 590	-



Butterfly Valve type 146 lug-style metric, DN50 – DN200, with electric actuator, with manual override



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	Lg (mm)	V1 (mm)	V (mm)	Y (mm)	Y2 (mm)	E (mm)	Q1 (mm)	Q2 (mm)	H4 (mm)	M1 (mm)	M2 (mm)	k _{ISO} (mm)	d _{ISO} (mm)
50	63	2	EA45	438.3	190	487.5	160	44.7	78.8	133.3	166.2	60	122.3	40	-	23	107.3	82.7	125	M16
65	75	2 ½	EA45	451.2	190	491.8	180	45.7	85.1	139.9	166.2	60	122.3	54	35	23	107.3	82.7	145	M16
80	90	3	EA120	486.1	190	498.8	195	48.7	91.2	145.6	189.3	60	122.3	67	50	23	107.3	82.7	160	M16
100	110	4	EA120	522.8	190	506.3	225	55.6	107.5	166.4	189.3	60	122.3	88	74	23	107.3	82.7	180	M16
125	140	5	EA120	552.0	190	514.3	258	63.5	122.7	180.0	189.3	60	122.3	113	97	23	107.3	82.7	210	M16
150	160	6	EA120	582.8	190	521.3	284	71.5	134.5	189.0	189.3	60	122.3	139	123	23	107.3	82.7	240	M20
200	225	8	EA250	631.3	190	536.3	341	72.5	161.5	210.5	199.3	60	122.3	178	169	23	107.3	82.7	295	M20

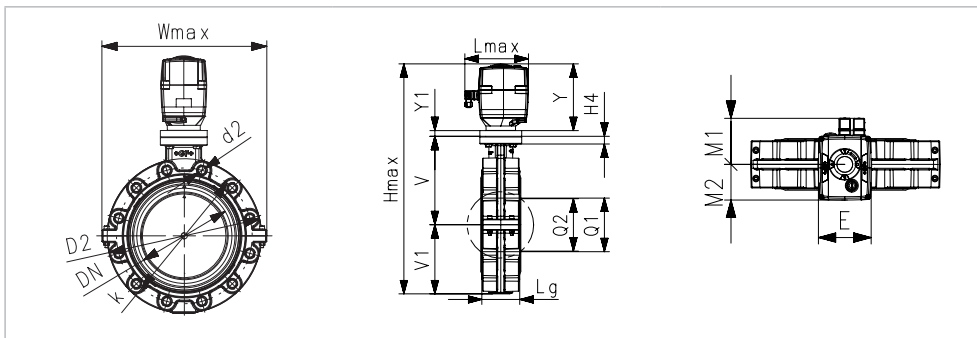
PVC-U

Lug-style end installation butterfly valve type 146 PVC-U, with manual override, Flange standard metric

Dimensions				EA voltage 24 V	EA voltage 100-230 V
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	EPDM Code
50	63	2	10	199 146 082	199 146 002
65	75	2 ½	10	199 146 083	199 146 003
80	90	3	10	199 146 084	199 146 004
100	110	4	10	199 146 085	199 146 005
125	140	5	10	199 146 086	199 146 006
150	160	6	10	199 146 087	199 146 007
200	225	8	10	199 146 088	199 146 008



Butterfly Valve type 147 lug-style ANSI/ASME, DN50 – DN300, with electric actuator, without manual override



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	Lg (mm)	V1 (mm)	V (mm)	Y (mm)	Y1 (mm)	E (mm)	Q1 (mm)	Q2 (mm)	H4 (mm)	M1 (mm)	M2 (mm)	KANSI (mm)	d2ANSI (")
50	63	2	EA45	378.3	190	165	160	44.7	78.8	133.3	166.2	-	122.3	40	-	23	107.3	82.7	120.6	UNC 5/8
65	75	2 1/2	EA45	391.2	190	182	180	45.7	85.1	139.9	166.2	-	122.3	54	35	23	107.3	82.7	139.7	UNC 5/8
80	90	3	EA120	426.1	190	210	195	48.7	91.2	145.6	189.3	-	122.3	67	50	23	107.3	82.7	152.4	UNC 5/8
100	110	4	EA120	462.8	190	240	225	55.6	107.5	166.4	189.3	-	122.3	88	74	23	107.3	82.7	190.5	UNC 5/8
125	140	5	EA120	492.0	190	272	258	63.5	122.7	180.0	189.3	-	122.3	113	97	23	107.3	82.7	215.9	UNC 3/4
150	160	6	EA120	522.8	190	300	284	71.5	134.5	189.0	189.3	-	122.3	139	123	23	107.3	82.7	241.3	UNC 3/4
200	225	8	EA250	571.3	190	360	341	72.5	161.5	210.5	199.3	-	122.3	178	169	23	107.3	82.7	298.4	UNC 3/4
250	280	10	EA250	670.6	190	440	412	113.2	206.9	264.4	199.3	17	122.3	210	207	23	107.3	82.7	362.0	UNC 7/8
300	315	12	EA250	720.0	190	510	482	114.6	235.5	285.2	199.3	17	122.3	256	253	23	107.3	82.7	431.8	UNC 7/8

Dimensions in accordance with ANSI/ASME B16.5 Class 150

PVC-U

Lug-style end installation butterfly valve type 147 PVC-U, without manual override, Flange standard ANSI/ASME

Dimensions				EA voltage 100-230 V
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code
50	63	2	10	199 147 042
65	75	2 1/2	10	199 147 043
80	90	3	10	199 147 044
100	110	4	10	199 147 045
125	140	5	10	199 147 046
150	160	6	10	199 147 047
200	225	8	10	199 147 048
250	280	10	6	199 147 049
300	315	12	4	199 147 050



PVC-C

Lug-style end installation butterfly valve type 147 PVC-C, without manual override, Flange standard ANSI/ASME

Dimensions				EA voltage 24 V		EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	PTFE Code	EPDM Code	PTFE Code
50	63	2	10	199 147 282	199 147 742	199 147 202	199 147 722
65	75	2 1/2	10	199 147 283	199 147 743	199 147 203	199 147 723
80	90	3	10	199 147 284	199 147 744	199 147 204	199 147 724
100	110	4	10	199 147 285	199 147 745	199 147 205	199 147 725
125	140	5	10	199 147 286	199 147 746	199 147 206	199 147 726
150	160	6	10	199 147 287	199 147 747	199 147 207	199 147 727
200	225	8	10	199 147 288	199 147 748	199 147 208	199 147 728
250	280	10	6	199 147 289	-	199 147 209	-
300	315	12	4	199 147 290	-	199 147 210	-



ABS

Lug-style, end installation butterfly valve type 147 ABS, without manual override, Flange standard ANSI/ASME

Dimensions				EA voltage 24 V
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code
50	63	2	10	199 147 542
65	75	2 ½	10	199 147 543
80	90	3	10	199 147 544
100	110	4	10	199 147 545
125	140	5	10	199 147 546
150	160	6	10	199 147 547
200	225	8	10	199 147 548
250	280	10	6	199 147 549
300	315	12	4	199 147 550



PROGEF PP-H

PROGEF Standard Lug-style end installation butterfly valve type 147, without manual override, Flange standard ANSI/ASME

Dimensions				EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	PTFE Code
50	63	2	10	199 147 362	199 147 802
65	75	2 ½	10	199 147 363	199 147 803
80	90	3	10	199 147 364	199 147 804
100	110	4	10	199 147 365	199 147 805
125	140	5	10	199 147 366	199 147 806
150	160	6	10	199 147 367	199 147 807
200	225	8	10	199 147 368	199 147 808
250	280	10	6	199 147 369	-
300	315	12	4	199 147 370	-



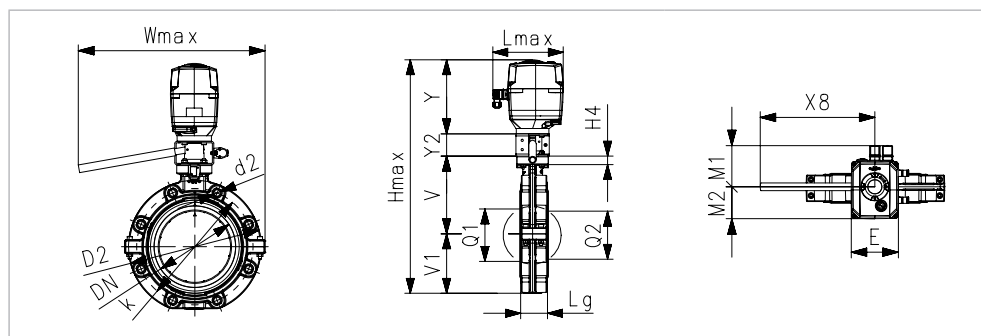
SYGEF PVDF

SYGEF Standard Lug-style end installation butterfly valve type 147, without manual override, Flange standard ANSI/ASME

Dimensions				EA voltage 100-230 V	
DN (mm)	d (mm)	Inch (")	PN (bar)	FKM Code	PTFE Code
50	63	2	10	199 147 582	199 147 642
65	75	2 ½	10	199 147 583	199 147 643
80	90	3	10	199 147 584	199 147 644
100	110	4	10	199 147 585	199 147 645
125	140	5	10	199 147 586	199 147 646
150	160	6	10	199 147 587	199 147 647
200	225	8	10	199 147 588	199 147 648
250	280	10	6	199 147 589	-
300	315	12	4	199 147 590	-



Butterfly Valve type 147 lug-style ANSI/ASME, DN50 – DN200, with electric actuator, with manual override



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	Lg (mm)	V1 (mm)	V (mm)	Y (mm)	Y2 (mm)	E (mm)	Q1 (mm)	Q2 (mm)	H4 (mm)	M1 (mm)	M2 (mm)	k _{ANSI} (mm)	d2 _{ANSI} (")
50	63	2	EA45	438.3	190	487.5	160	44.7	78.8	133.3	166.2	60	122.3	40	-	23	107.3	82.7	120.6	UNC 5/8
65	75	2 ½	EA45	451.2	190	491.8	180	45.7	85.1	139.9	166.2	60	122.3	54	35	23	107.3	82.7	139.7	UNC 5/8
80	90	3	EA120	486.1	190	498.8	195	48.7	91.2	145.6	189.3	60	122.3	67	50	23	107.3	82.7	152.4	UNC 5/8
100	110	4	EA120	522.8	190	506.3	225	55.6	107.5	166.4	189.3	60	122.3	88	74	23	107.3	82.7	190.5	UNC 5/8
125	140	5	EA120	552.0	190	514.3	258	63.5	122.7	180.0	189.3	60	122.3	113	97	23	107.3	82.7	215.9	UNC 3/4
150	160	6	EA120	582.8	190	521.3	284	71.5	134.5	189.0	189.3	60	122.3	139	123	23	107.3	82.7	241.3	UNC 3/4
200	225	8	EA250	631.3	190	536.3	341	72.5	161.5	210.5	199.3	60	122.3	178	169	23	107.3	82.7	298.4	UNC 3/4

Dimensions in accordance with ANSI/ASME B16.5 Class 150

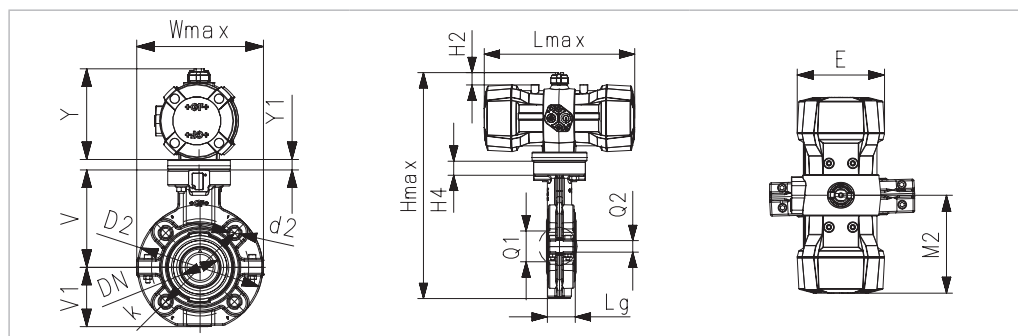
PVC-U

Lug-style end installation butterfly valve type 147 PVC-U, with manual override, Flange standard ANSI/ASME

Dimensions			EA voltage 100-230 V		
DN (mm)	d (mm)	Inch (")	PN (bar)	EPDM Code	FKM Code
50	63	2	10	199 147 002	199 147 022
65	75	2 ½	10	199 147 003	199 147 023
80	90	3	10	199 147 004	199 147 024
100	110	4	10	199 147 005	199 147 025
125	140	5	10	199 147 006	199 147 026
150	160	6	10	199 147 007	199 147 027
200	225	8	10	199 147 008	199 147 028



Butterfly valve type 243 lug-style metric, DN50 – DN125, with plastic pneumatic actuator FC/FO



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	H2 (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	Y1 (mm)	M2 (mm)	E (mm)	k _{ISO} (mm)	d _{ISO} (mm)
50	63	2	PPA40	338.1	245.5	165	133.3	20	23	78.8	44.7	160	40		111	15	122.8	119.5	125	M16
65	75	2 ½	PPA40	351.0	245.5	182	139.9	20	23	85.1	45.7	180	54	35	111	15	122.8	119.5	145	M16
80	90	3	PPA80	367.8	343.0	210	145.6	20	23	91.2	48.7	195	67	50	111	15	171.5	141.5	160	M16
100	110	4	PPA80	404.5	343.0	240	166.4	20	23	107.5	55.6	226	88	74	131	-	171.5	141.5	180	M16
125	140	5	PPA80	433.7	343.0	272	180.0	20	23	122.7	63.5	258	113	97	131	-	171.5	141.5	210	M16

PVC-U

Lug-style end installation butterfly valve Type 243 PVC-U, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 243 602	199 243 622	199 243 632	199 243 642
65	75	2 ½	10	199 243 603	199 243 623	199 243 633	199 243 643
80	90	3	10	199 243 604	199 243 624	199 243 634	199 243 644
100	110	4	10	199 243 605	199 243 625	199 243 635	199 243 645
125	140	5	10	199 243 606	199 243 626	199 243 636	199 243 646



PVC-C

Lug-style end installation butterfly valve type 243 PVC-C, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 243 712	199 243 722	199 243 732	199 243 742
65	75	2 ½	10	199 243 713	199 243 723	199 243 733	199 243 743
80	90	3	10	199 243 714	199 243 724	199 243 734	199 243 744
100	110	4	10	199 243 715	199 243 725	199 243 735	199 243 745
125	140	5	10	199 243 716	199 243 726	199 243 736	199 243 746



ABS

Lug-style end installation butterfly valve type 243 ABS, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)	FO (Fail safe to open)
				EPDM Code	EPDM Code
50	63	2	10	199 243 920	199 243 930
65	75	2 ½	10	199 243 921	199 243 931
80	90	3	10	199 243 922	199 243 932
100	110	4	10	199 243 923	199 243 933
125	140	5	10	199 243 924	199 243 934



PROGEF PP-H

PROGEF Standard Lug-style end installation butterfly valve type 243, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 243 802	199 243 822	199 243 832	199 243 842
65	75	2 ½	10	199 243 803	199 243 823	199 243 833	199 243 843
80	90	3	10	199 243 804	199 243 824	199 243 834	199 243 844
100	110	4	10	199 243 805	199 243 825	199 243 835	199 243 845
125	140	5	10	199 243 806	199 243 826	199 243 836	199 243 846



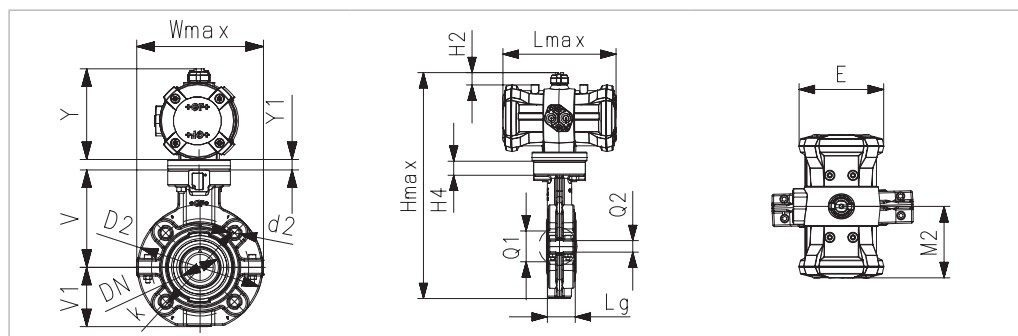
SYGEF PVDF

SYGEF Standard Lug-style end installation butterfly valve type 243, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)	FO (Fail safe to open)
				FKM Code	FKM Code
50	63	2	10	199 243 925	199 243 935
65	75	2 ½	10	199 243 926	199 243 936
80	90	3	10	199 243 927	199 243 937
100	110	4	10	199 243 928	199 243 938
125	140	5	10	199 243 929	199 243 939



Butterfly valve type 243 lug-style metric, DN50 – DN125, with plastic pneumatic actuator DA



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	H2 (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	Y1 (mm)	M2 (mm)	E (mm)	k _{ISO} (mm)	d _{ISO} (mm)
50	63	2	PPA40	338.1	183.5	165	133.3	20	23	78.8	44.7	160	40	35	111	15	91.8	119.5	125	M16
65	75	2 ½	PPA40	351.0	183.5	182	139.9	20	23	85.1	45.7	180	54	35	111	15	91.8	119.5	145	M16
80	90	3	PPA40	362.8	183.5	210	145.6	20	23	91.2	48.7	195	67	50	111	15	91.8	119.5	160	M16
100	110	4	PPA80	404.5	261.0	240	166.0	20	23	107.5	55.6	226	88	74	131	-	130.5	141.5	180	M16
125	140	5	PPA80	433.7	261.0	272	180.0	20	23	122.7	63.5	258	113	97	131	-	130.5	141.5	210	M16

PVC-U

Lug-style end installation butterfly valve Type 243 PVC-U, DA (Double acting), Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 243 652	199 243 662
65	75	2 ½	10	199 243 653	199 243 663
80	90	3	10	199 243 654	199 243 664
100	110	4	10	199 243 655	199 243 665
125	140	5	10	199 243 656	199 243 666



PVC-C

Lug-style end installation butterfly valve Type 243 PVC-C, DA (Double acting), Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 243 752	199 243 762
65	75	2 ½	10	199 243 753	199 243 763
80	90	3	10	199 243 754	199 243 764
100	110	4	10	199 243 755	199 243 765
125	140	5	10	199 243 756	199 243 766



ABS

Lug-style end installation butterfly valve Type 243 ABS, DA (Double acting), Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)
				EPDM Code
50	63	2	10	199 243 900
65	75	2 ½	10	199 243 901
80	90	3	10	199 243 902
100	110	4	10	199 243 903
125	140	5	10	199 243 904



PROGEF PP-H

PROGEF Standard Lug-style, end installation butterfly valve type 243, DA (Double acting), Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 243 852	199 243 862
65	75	2 ½	10	199 243 853	199 243 863
80	90	3	10	199 243 854	199 243 864
100	110	4	10	199 243 855	199 243 865
125	140	5	10	199 243 856	199 243 866

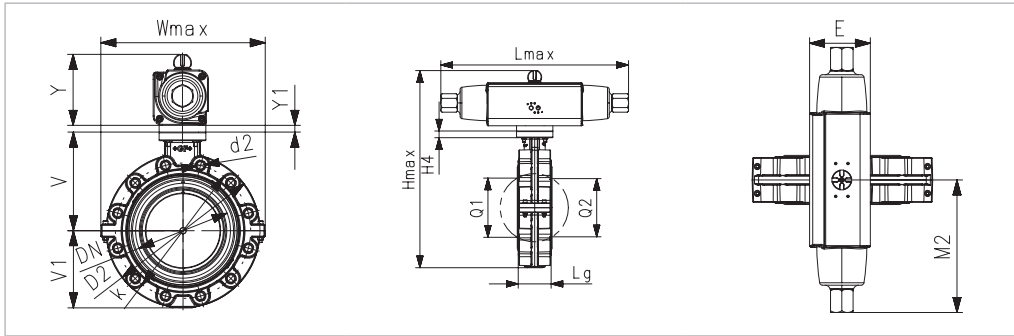
**SYGEF PVDF**

SYGEF Standard Lug-style end installation butterfly valve type 243, DA (Double acting), Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)
				FKM Code
50	63	2	10	199 243 905
65	75	2 ½	10	199 243 906
80	90	3	10	199 243 907
100	110	4	10	199 243 908
125	140	5	10	199 243 909



Butterfly Valve type 243 lug-style metric, DN50 – DN300, with pneumatic actuator FC/F0



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	V1 (mm)	V (mm)	Y (mm)	Y1 (mm)	H4 (mm)	Lg (mm)	E (mm)	M2 (mm)	Q1 (mm)	Q2 (mm)	k _{ISO} (mm)	d2 _{ISO} (mm)
50	63	2	PA30	328.1	274.4	165	160	78.8	133.3	98.2	15.0	23	44.7	70.4	137.2	40	-	125	M16
65	75	2 ½	PA30	341.0	274.4	182	180	85.1	139.9	98.2	15.0	23	45.7	70.4	137.2	54	35	145	M16
80	90	3	PA35	365.7	325.2	210	195	91.2	145.6	111.1	15.0	23	48.7	83.3	162.6	67	50	160	M16
100	110	4	PA40	388.3	359.6	240	226	107.5	166.0	114.8	-	23	55.6	87.0	179.8	88	74	180	M16
125	140	5	PA45	452.2	418.0	272	258	122.7	180.0	149.5	-	23	63.5	107.5	209.0	113	39	210	M16
150	160	6	PA50	476.6	434.0	280	284	134.5	189.0	153.1	-	23	71.5	111.1	217.0	139	123	240	M20
200	225	8	PA55	532.0	498.4	360	341	161.5	210.5	160.0	-	23	72.5	118.0	249.2	178	169	295	M20
250	280	10	PA60 FC	679.5	646.0	440	412	206.9	264.4	190.0	-	23	113.2	148.0	323.0	210	207	350	M20
250	280	10	PA70 FO	749.0	681.0	440	412	206.9	264.4	190.0	-	23	113.2	168.0	340.5	210	207	350	M20
300	315	12	PA65 FC	679.5	646.0	510	482	235.5	285.2	210.1	18.2	23	114.6	148.0	323.0	256	253	400	M20
300	315	12	PA70 FO	749.0	681.0	510	482	235.5	285.2	210.1	18.2	23	114.6	168.0	340.5	256	253	400	M20

PVC-U

Lug-style end installation butterfly valve type 243 PVC-U, without manual override, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 243 002	199 243 022	199 243 042	199 243 062
65	75	2 ½	10	199 243 003	199 243 023	199 243 043	199 243 063
80	90	3	10	199 243 004	199 243 024	199 243 044	199 243 064
100	110	4	10	199 243 005	199 243 025	199 243 045	199 243 065
125	140	5	10	199 243 006	199 243 026	199 243 046	199 243 066
150	160	6	10	199 243 007	199 243 027	199 243 047	199 243 067
200	225	8	10	199 243 008	199 243 028	199 243 048	199 243 068
250	280	10	10	199 243 009	199 243 029	199 243 049	199 243 069
300	315	12	5	199 243 010	199 243 030	199 243 050	199 243 070



PVC-C

Lug-style end installation butterfly valve type 243 PVC-C, without manual override, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 243 162	199 243 182	199 243 202	199 243 222
65	75	2 ½	10	199 243 163	199 243 183	199 243 203	199 243 223
80	90	3	10	199 243 164	199 243 184	199 243 204	199 243 224
100	110	4	10	199 243 165	199 243 185	199 243 205	199 243 225
125	140	5	10	199 243 166	199 243 186	199 243 206	199 243 226
150	160	6	10	199 243 167	199 243 187	199 243 207	199 243 227
200	225	8	10	199 243 168	199 243 188	199 243 208	199 243 228
250	280	10	10	199 243 169	199 243 189	199 243 209	199 243 229
300	315	12	5	199 243 170	199 243 190	199 243 210	199 243 230



ABS

Lug-style end installation butterfly valve type 243 ABS, without manual override, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)	FO (Fail safe to open)
				EPDM Code	EPDM Code
50	63	2	10	199 243 402	199 243 422
65	75	2 ½	10	199 243 403	199 243 423
80	90	3	10	199 243 404	199 243 424
100	110	4	10	199 243 405	199 243 425
125	140	5	10	199 243 406	199 243 426
150	160	6	10	199 243 407	199 243 427
200	225	8	10	199 243 408	199 243 428
250	280	10	10	199 243 409	199 243 429
300	315	12	5	199 243 410	199 243 430



PROGEF PP-H

PROGEF Standard Lug-style end installation butterfly valve type 243, without manual override, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 243 282	199 243 302	199 243 322	199 243 342
65	75	2 ½	10	199 243 283	199 243 303	199 243 323	199 243 343
80	90	3	10	199 243 284	199 243 304	199 243 324	199 243 344
100	110	4	10	199 243 285	199 243 305	199 243 325	199 243 345
125	140	5	10	199 243 286	199 243 306	199 243 326	199 243 346
150	160	6	10	199 243 287	199 243 307	199 243 327	199 243 347
200	225	8	10	199 243 288	199 243 308	199 243 328	199 243 348
250	280	10	10	199 243 289	199 243 309	199 243 329	199 243 349
300	315	12	5	199 243 290	199 243 310	199 243 330	199 243 350



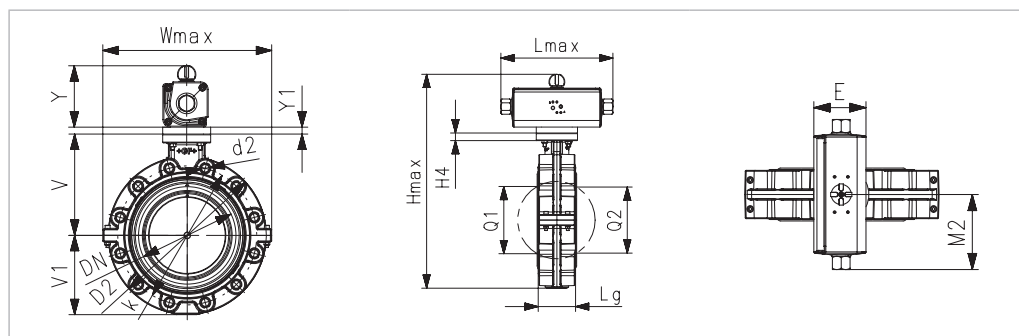
SYGEF PVDF

SYGEF Standard Lug-style end installation butterfly valve type 243, without manual override, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)	FO (Fail safe to open)
				FKM Code	EPDM Code
50	63	2	10	199 243 462	199 243 482
65	75	2 ½	10	199 243 463	199 243 483
80	90	3	10	199 243 464	199 243 484
100	110	4	10	199 243 465	199 243 485
125	140	5	10	199 243 466	199 243 486
150	160	6	10	199 243 467	199 243 487
200	225	8	10	199 243 468	199 243 488
250	280	10	10	199 243 469	199 243 489
300	315	12	5	199 243 470	199 243 490



Butterfly Valve type 243 lug-style metric, DN50 – DN300, with pneumatic actuator DA



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	V1 (mm)	U (mm)	V (mm)	Y (mm)	Y1 (mm)	H4 (mm)	Lg (mm)	E (mm)	M2 (mm)	Q1 (mm)	Q2 (mm)	k _{ISO} (mm)	d2 _{ISO} (mm)
50	63	2	PA35	319.4	196.2	165	160	78.8	90	133.3	92.3	15.0	23	44.7	64.5	98.1	40	-	125	M16
65	75	2 ½	PA35	332.3	196.2	182	180	85.1	90	139.9	92.3	15.0	23	45.7	64.5	98.1	54	35	145	M16
80	90	3	PA40	352.8	205.6	210	195	91.2	90	145.6	98.2	15.0	23	48.7	70.4	102.8	67	50	160	M16
100	110	4	PA45	384.7	242.0	240	226	107.5	90	166.0	111.2	-	23	55.6	83.3	121.0	88	74	180	M16
125	140	5	PA45	413.9	242.0	272	258	122.7	90	180.0	111.2	-	23	63.5	83.3	121.0	113	39	210	M16
150	160	6	PA55	473.0	290.0	280	284	134.5	90	189.0	149.5	-	23	71.5	107.5	145.0	139	123	240	M20
200	225	8	PA55	521.5	290.0	360	341	161.5	90	210.5	149.5	-	23	72.5	107.5	145.0	178	169	295	M20
250	280	10	PA65	649.5	339.6	440	412	206.9	90	264.4	160.0	-	23	113.2	118.0	169.8	210	207	350	M20
300	315	12	PA65	689.9	339.6	510	482	235.5	125	285.2	160.0	18.2	23	114.6	118.0	169.8	256	253	400	M20

PVC-U

Lug-style end installation butterfly valve type 243 PVC-U, with pneumatic actuator - double acting (DA), without manual override, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 243 082	199 243 102
65	75	2 ½	10	199 243 083	199 243 103
80	90	3	10	199 243 084	199 243 104
100	110	4	10	199 243 085	199 243 105
125	140	5	10	199 243 086	199 243 106
150	160	6	10	199 243 087	199 243 107
200	225	8	10	199 243 088	199 243 108
250	280	10	10	199 243 089	199 243 109
300	315	12	5	199 243 090	199 243 110



PVC-C

Lug-style end installation butterfly valve type 243 PVC-C, with pneumatic actuator - double acting (DA), without manual override, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 243 242	199 243 262
65	75	2 ½	10	199 243 243	199 243 263
80	90	3	10	199 243 244	199 243 264
100	110	4	10	199 243 245	199 243 265
125	140	5	10	199 243 246	199 243 266
150	160	6	10	199 243 247	199 243 267
200	225	8	10	199 243 248	199 243 268
250	280	10	10	199 243 249	199 243 269
300	315	12	5	199 243 250	199 243 270



ABS

Lug-style end installation butterfly valve type 243 ABS, with pneumatic actuator - double acting (DA), without manual override, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	
50	63	2	10	199 243 442	
65	75	2 ½	10	199 243 443	
80	90	3	10	199 243 444	
100	110	4	10	199 243 445	
125	140	5	10	199 243 446	
150	160	6	10	199 243 447	
200	225	8	10	199 243 448	
250	280	10	10	199 243 449	
300	315	12	5	199 243 450	



PROGEF PP-H

PROGEF Standard Lug-style end installation butterfly valve type 243, with pneumatic actuator - double acting (DA), without manual override, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 243 362	199 243 382
65	75	2 ½	10	199 243 363	199 243 383
80	90	3	10	199 243 364	199 243 384
100	110	4	10	199 243 365	199 243 385
125	140	5	10	199 243 366	199 243 386
150	160	6	10	199 243 367	199 243 387
200	225	8	10	199 243 368	199 243 388
250	280	10	8	199 243 369	199 243 389
300	315	12	5	199 243 370	199 243 390



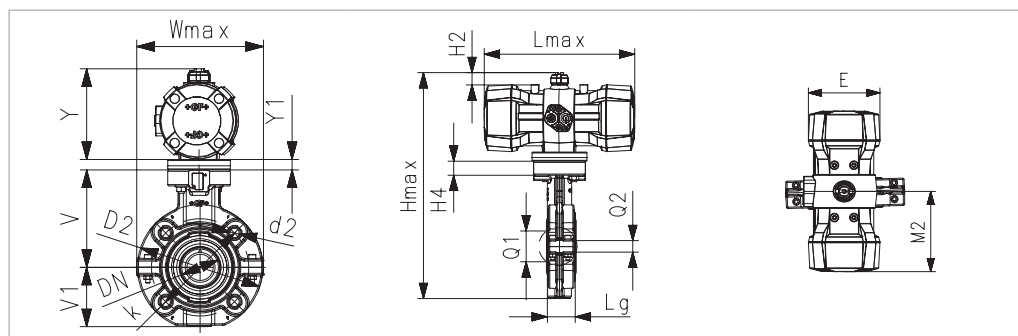
SYGEF PVDF

SYGEF Standard Lug-style end installation butterfly valve type 243, with pneumatic actuator - double acting (DA), without manual override, Flange standard metric

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				FKM Code	
50	63	2	10	199 243 502	
65	75	2 ½	10	199 243 503	
80	90	3	10	199 243 504	
100	110	4	10	199 243 505	
125	140	5	10	199 243 506	
150	160	6	10	199 243 507	
200	225	8	10	199 243 508	
250	280	10	10	199 243 509	
300	315	12	5	199 243 510	



Butterfly valve type 244 lug-style ANSI/ASME, DN50 – DN125, with plastic pneumatic actuator FC/FO



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	U (mm)	V (mm)	H2 (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	Y1 (mm)	M2 (mm)	E (mm)	k _{ANSI} (mm)	d2 _{ANSI} (")
50	63	2	PPA40	338.1	245.5	165	90	133.3	20	23	78.8	44.7	160	40	-	111	15	122.8	119.5	120.6	UNC 5/8
65	75	2 ½	PPA40	351.0	245.5	182	90	139.9	20	23	85.1	45.7	180	54	35	111	15	122.8	119.5	139.7	UNC 5/8
80	90	3	PPA80	367.8	343.0	210	90	145.6	20	23	91.2	48.7	195	67	50	131	15	171.5	141.5	152.4	UNC 5/8
100	110	4	PPA80	404.5	343.0	240	90	166.4	20	23	107.5	55.6	226	88	74	131	-	171.5	141.5	190.5	UNC 5/8
125	140	5	PPA80	433.7	343.0	272	90	180.0	20	23	122.7	63.5	258	113	97	131	-	171.5	141.5	215.9	UNC 3/4

PVC-U

Lug-style end installation butterfly valve Type 244 PVC-U, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 244 602	199 244 622	199 244 632	199 244 642
65	75	2 ½	10	199 244 603	199 244 623	199 244 633	199 244 643
80	90	3	10	199 244 604	199 244 624	199 244 634	199 244 644
100	110	4	10	199 244 605	199 244 625	199 244 635	199 244 645
125	140	5	10	199 244 606	199 244 626	199 244 636	199 244 646



PVC-C

Lug-style end installation butterfly valve Type 244 PVC-C, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 244 702	199 244 722	199 244 732	199 244 742
65	75	2 ½	10	199 244 703	199 244 723	199 244 733	199 244 743
80	90	3	10	199 244 704	199 244 724	199 244 734	199 244 744
100	110	4	10	199 244 705	199 244 725	199 244 735	199 244 745
125	140	5	10	199 244 706	199 244 726	199 244 736	199 244 746



ABS

Lug-style end installation butterfly valve Type 244 ABS, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)	FO (Fail safe to open)
				EPDM Code	EPDM Code
50	63	2	10	199 244 920	199 244 930
65	75	2 ½	10	199 244 921	199 244 931
80	90	3	10	199 244 922	199 244 932
100	110	4	10	199 244 923	199 244 933
125	140	5	10	199 244 924	199 244 934



PROGEF PP-H

PROGEF Standard Lug-style end installation butterfly valve type 244, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 244 802	199 244 822	199 244 832	199 244 842
65	75	2 ½	10	199 244 803	199 244 823	199 244 833	199 244 843
80	90	3	10	199 244 804	199 244 824	199 244 834	199 244 844
100	110	4	10	199 244 805	199 244 825	199 244 835	199 244 845
125	140	5	10	199 244 806	199 244 826	199 244 836	199 244 846

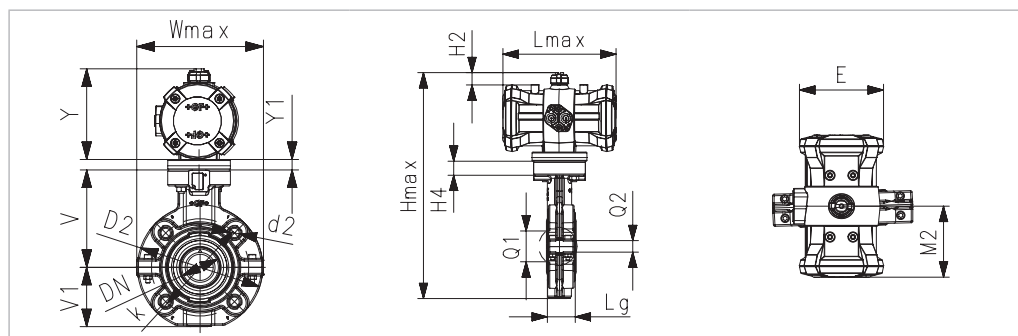
**SYGEF PVDF**

SYGEF Standard Lug-style end installation butterfly valve type 244, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)	FO (Fail safe to open)
				FKM Code	FKM Code
50	63	2	10	199 244 925	199 244 935
65	75	2 ½	10	199 244 926	199 244 936
80	90	3	10	199 244 927	199 244 937
100	110	4	10	199 244 928	199 244 938
125	140	5	10	199 244 929	199 244 939



Butterfly valve type 244 lug-style ANSI/ASME, DN50 – DN125, with plastic pneumatic actuator DA



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	V (mm)	H2 (mm)	H4 (mm)	V1 (mm)	Lg (mm)	D2 (mm)	Q1 (mm)	Q2 (mm)	Y (mm)	Y1 (mm)	M2 (mm)	E (mm)	k _{ANSI} (mm)	d2 _{ANSI} (")
50	63	2	PPA40	338.1	183.5	165	133.3	20	23	78.8	44.7	160	40	-	111	15	91.8	119.5	120.6	UNC 5/8
65	75	2 ½	PPA40	351.0	183.5	182	139.9	20	23	85.1	45.7	180	54	35	111	15	91.8	119.5	139.7	UNC 5/8
80	90	3	PPA40	362.8	183.5	210	145.6	20	23	91.2	48.7	195	67	50	111	15	91.8	119.5	152.4	UNC 5/8
100	110	4	PPA80	404.5	261.0	240	166.0	20	23	107.5	55.6	226	88	74	131	-	130.5	141.5	190.5	UNC 5/8
125	140	5	PPA80	433.7	261.0	272	180.0	20	23	122.7	63.5	258	113	97	131	-	130.5	141.5	215.9	UNC 3/4

PVC-U

Lug-style end installation butterfly valve Type 244 PVC-U, DA (Double acting), Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 244 652	199 244 662
65	75	2 ½	10	199 244 653	199 244 663
80	90	3	10	199 244 654	199 244 664
100	110	4	10	199 244 655	199 244 665
125	140	5	10	199 244 656	199 244 666



PVC-C

Lug-style end installation butterfly valve type 244 PVC-C, DA (Double acting), Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 244 752	199 244 762
65	75	2 ½	10	199 244 753	199 244 763
80	90	3	10	199 244 754	199 244 764
100	110	4	10	199 244 755	199 244 765
125	140	5	10	199 244 756	199 244 766



ABS

Lug-style end installation butterfly valve type 244 ABS, DA (Double acting), Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	
50	63	2	10	199 244 900	
65	75	2 ½	10	199 244 901	
80	90	3	10	199 244 902	
100	110	4	10	199 244 903	
125	140	5	10	199 244 904	



PROGEF PP-H

PROGEF Standard Lug-style end installation butterfly valve type 244, DA (Double acting), Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 244 852	199 244 862
65	75	2 ½	10	199 244 853	199 244 863
80	90	3	10	199 244 854	199 244 864
100	110	4	10	199 244 855	199 244 865
125	140	5	10	199 244 856	199 244 866



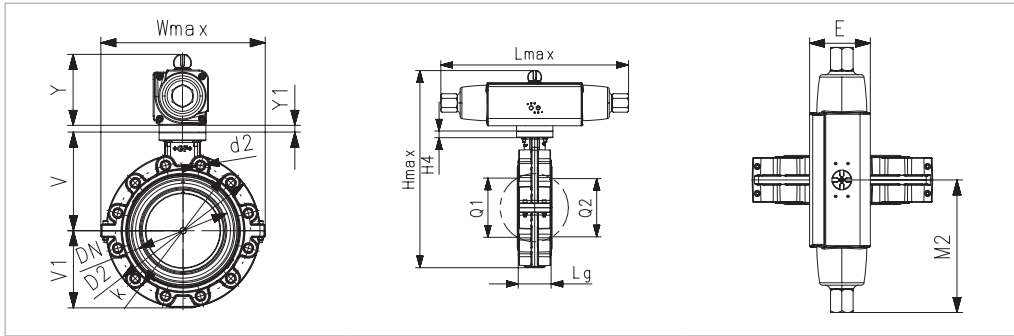
SYGEF PVDF

SYGEF Standard Lug-style end installation butterfly valve type 244, DA (Double acting), Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				FKM Code	
50	63	2	10	199 244 905	
65	75	2 ½	10	199 244 906	
80	90	3	10	199 244 907	
100	110	4	10	199 244 908	
125	140	5	10	199 244 909	



Butterfly Valve type 244 lug-style ANSI/ASME, DN50 – DN300, with pneumatic actuator FC/FO



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	V1 (mm)	V (mm)	Y (mm)	Y1 (mm)	H4 (mm)	Lg (mm)	E (mm)	M2 (mm)	Q1 (mm)	Q2 (mm)	k _{ANSI} (mm)	d2 _{ANSI} (")
50	63	2	PA30	328.1	274.4	165	160	78.8	133.3	98.2	15.0	23	44.7	70.4	137.2	40	-	120.6	UNC 5/8
65	75	2 1/2	PA30	341.0	274.4	182	180	85.1	139.9	98.2	15.0	23	45.7	70.4	137.2	54	35	139.7	UNC 5/8
80	90	3	PA35	365.7	325.2	210	195	91.2	145.6	111.1	15.0	23	48.7	83.3	162.6	67	50	152.4	UNC 5/8
100	110	4	PA40	388.3	359.6	240	226	107.5	166.0	114.8	-	23	55.6	87.0	179.8	88	74	190.5	UNC 5/8
125	140	5	PA45	452.2	418.0	272	258	122.7	180.0	149.5	-	23	63.5	107.5	209.0	113	39	215.9	UNC 3/4
150	160	6	PA50	476.6	434.0	280	284	134.5	189.0	153.1	-	23	71.5	111.1	217.0	139	123	241.3	UNC 3/4
200	225	8	PA55	532.0	498.4	360	341	161.5	210.5	160.0	-	23	72.5	118.0	249.2	178	169	298.4	UNC 3/4
250	280	10	PA60 FC	679.5	646.0	440	412	206.9	264.4	190.0	-	23	113.2	148.0	323.0	210	207	362.0	UNC 7/8
250	280	10	PA70 FO	749.0	681.0	440	412	206.9	264.4	190.0	-	23	113.2	168.0	340.5	210	207	362.0	UNC 7/8
300	315	12	PA65 FC	679.5	646.0	510	482	235.5	285.2	210.1	18.2	23	114.6	148.0	323.0	256	253	431.8	UNC 7/8
300	315	12	PA70 FO	749.0	681.0	510	482	235.5	285.2	210.1	18.2	23	114.6	168.0	340.5	256	253	431.8	UNC 7/8

PVC-U

Lug-style end installation butterfly valve type 244 PVC-U, without manual override, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 244 002	199 244 022	199 244 042	199 244 062
65	75	2 1/2	10	199 244 003	199 244 023	199 244 043	199 244 063
80	90	3	10	199 244 004	199 244 024	199 244 044	199 244 064
100	110	4	10	199 244 005	199 244 025	199 244 045	199 244 065
125	140	5	10	199 244 006	199 244 026	199 244 046	199 244 066
150	160	6	10	199 244 007	199 244 027	199 244 047	199 244 067
200	225	8	10	199 244 008	199 244 028	199 244 048	199 244 068
250	280	10	10	199 244 009	199 244 029	199 244 049	199 244 069
300	315	12	5	199 244 010	199 244 030	199 244 050	199 244 070



PVC-C

Lug-style end installation butterfly valve type 244 PVC-C, without manual override, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 244 162	199 244 182	199 244 202	199 244 222
65	75	2 1/2	10	199 244 163	199 244 183	199 244 203	199 244 223
80	90	3	10	199 244 164	199 244 184	199 244 204	199 244 224
100	110	4	10	199 244 165	199 244 185	199 244 205	199 244 225
125	140	5	10	199 244 166	199 244 186	199 244 206	199 244 226
150	160	6	10	199 244 167	199 244 187	199 244 207	199 244 227
200	225	8	10	199 244 168	199 244 188	199 244 208	199 244 228
250	280	10	10	199 244 169	199 244 189	199 244 209	199 244 229
300	315	12	5	199 244 170	199 244 190	199 244 210	199 244 230



ABS

Lug-style end installation butterfly valve type 244 ABS, without manual override, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code		EPDM Code	
50	63	2	10	199 244 402		199 244 422	
65	75	2 ½	10	199 244 403		199 244 423	
80	90	3	10	199 244 404		199 244 424	
100	110	4	10	199 244 405		199 244 425	
125	140	5	10	199 244 406		199 244 426	
150	160	6	10	199 244 407		199 244 427	
200	225	8	10	199 244 408		199 244 428	



PROGEF PP-H

PROGEF Standard Lug-style end installation butterfly valve type 244, without manual override, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				EPDM Code	FKM Code	EPDM Code	FKM Code
50	63	2	10	199 244 282	199 244 302	199 244 322	199 244 342
65	75	2 ½	10	199 244 283	199 244 303	199 244 323	199 244 343
80	90	3	10	199 244 284	199 244 304	199 244 324	199 244 344
100	110	4	10	199 244 285	199 244 305	199 244 325	199 244 345
125	140	5	10	199 244 286	199 244 306	199 244 326	199 244 346
150	160	6	10	199 244 287	199 244 307	199 244 327	199 244 347
200	225	8	10	199 244 288	199 244 308	199 244 328	199 244 348
250	280	10	8	199 244 289	199 244 309	199 244 329	199 244 349
300	315	12	5	199 244 290	199 244 310	199 244 330	199 244 350



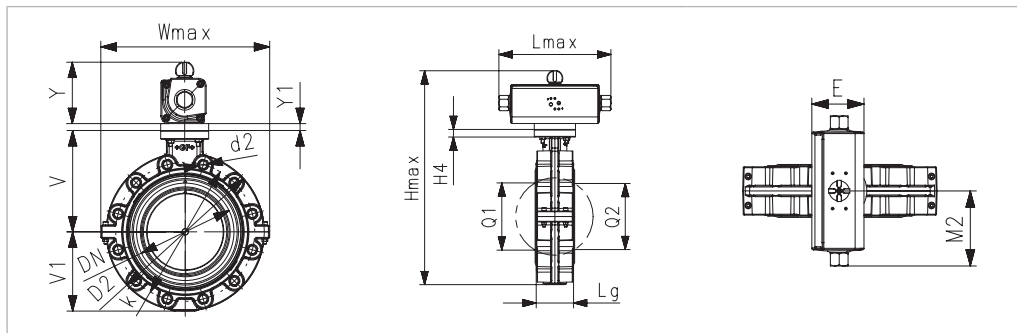
SYGEF PVDF

SYGEF Standard Lug-style end installation butterfly valve type 244, without manual override, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	FC (Fail safe to close)		FO (Fail safe to open)	
				FKM Code		FKM Code	
50	63	2	10	199 244 462		199 244 482	
65	75	2 ½	10	199 244 463		199 244 483	
80	90	3	10	199 244 464		199 244 484	
100	110	4	10	199 244 465		199 244 485	
125	140	5	10	199 244 466		199 244 486	
150	160	6	10	199 244 467		199 244 487	
200	225	8	10	199 244 468		199 244 488	
250	280	10	10	199 244 469		199 244 489	
300	315	12	5	199 244 470		199 244 490	



Butterfly Valve type 244 lug-style ANSI/ASME, DN50 – DN300, with pneumatic actuator DA



DN (mm)	d (mm)	Inch (")	Act. type	Hmax (mm)	Lmax (mm)	Wmax (mm)	D2 (mm)	V1 (mm)	V (mm)	Y (mm)	Y1 (mm)	H4 (mm)	Lg (mm)	E (mm)	M2 (mm)	Q1 (mm)	Q2 (mm)	k _{ANSI} (mm)	d2 _{ANSI} (")
50	63	2	PA35	319.4	196.2	165	160	78.8	133.3	92.3	15.0	23	44.7	64.5	98.1	40	-	120.6	UNC 5/8
65	75	2 ½	PA35	332.3	196.2	182	180	85.1	139.9	92.3	15.0	23	45.7	64.5	98.1	54	35	139.7	UNC 5/8
80	90	3	PA40	352.8	205.6	210	195	91.2	145.6	98.2	15.0	23	48.7	70.4	102.8	67	50	152.4	UNC 5/8
100	110	4	PA45	384.7	242.0	240	226	107.5	166.0	111.2	-	23	55.6	83.3	121.0	88	74	190.5	UNC 5/8
125	140	5	PA45	413.9	242.0	272	258	122.7	180.0	111.2	-	23	63.5	83.3	121.0	113	39	215.9	UNC 3/4
150	160	6	PA55	473.0	290.0	280	284	134.5	189.0	149.5	-	23	71.5	107.5	145.0	139	123	241.3	UNC 3/4
200	225	8	PA55	521.5	290.0	360	341	161.5	210.5	149.5	-	23	72.5	107.5	145.0	178	169	298.4	UNC 3/4
250	280	10	PA65	649.5	339.6	440	412	206.9	264.4	160.0	-	23	113.2	118.0	169.8	210	207	362.0	UNC 7/8
300	315	12	PA65	689.9	339.6	510	482	235.5	285.2	160.0	18.2	23	114.6	118.0	169.8	256	253	431.8	UNC 7/8

Connection dimensions according to ANSI/ASME B16.5 Class 150

PVC-U

Lug-style end installation butterfly valve type 244 PVC-U, with pneumatic actuator - double acting (DA), without manual override, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 244 082	199 244 102
65	75	2 ½	10	199 244 083	199 244 103
80	90	3	10	199 244 084	199 244 104
100	110	4	10	199 244 085	199 244 105
125	140	5	10	199 244 086	199 244 106
150	160	6	10	199 244 087	199 244 107
200	225	8	10	199 244 088	199 244 108
250	280	10	10	199 244 089	199 244 109
300	315	12	5	199 244 090	199 244 110



PVC-C

Lug-style end installation butterfly valve type 244 PVC-C, with pneumatic actuator - double acting (DA), without manual override, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 244 242	199 244 262
65	75	2 ½	10	199 244 243	199 244 263
80	90	3	10	199 244 244	199 244 264
100	110	4	10	199 244 245	199 244 265
125	140	5	10	199 244 246	199 244 266
150	160	6	10	199 244 247	199 244 267
200	225	8	10	199 244 248	199 244 268
250	280	10	10	199 244 249	199 244 269
300	315	12	5	199 244 250	199 244 270



ABS

Lug-style end installation butterfly valve type 244 ABS, with pneumatic actuator - double acting (DA), without manual override, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	
50	63	2	10	199 244 442	
65	75	2 ½	10	199 244 443	
80	90	3	10	199 244 444	
100	110	4	10	199 244 445	
125	140	5	10	199 244 446	
150	160	6	10	199 244 447	
200	225	8	10	199 244 448	

**PROGEF PP-H**

PROGEF Standard Lug-style end installation butterfly valve type 244, with pneumatic actuator - double acting (DA), without manual override, Flange standard ANSI/ASME

DN (mm)	d (mm)	Size (inch)	PN (bar)	DA (Double acting)	
				EPDM Code	FKM Code
50	63	2	10	199 244 362	199 244 382
65	75	2 ½	10	199 244 363	199 244 383
80	90	3	10	199 244 364	199 244 384
100	110	4	10	199 244 365	199 244 385
125	140	5	10	199 244 366	199 244 386
150	160	6	10	199 244 367	199 244 387
200	225	8	10	199 244 368	199 244 388
250	280	10	8	199 244 369	199 244 389
300	315	12	5	199 244 370	199 244 390



Spare parts

Disc for butterfly valve type 567/578

DN (mm)	d (mm)	Inch (")	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	Product picture
50	63	2	161 490 889	163 481 451	169 480 951	167 483 226	175 483 251	
65	75	2 ½	161 490 890	163 481 452	169 480 952	167 483 227	175 483 252	
80	90	3	161 490 891	163 481 453	169 480 953	167 483 228	175 483 253	
100	110	4	161 490 892	163 481 454	169 480 954	167 483 229	175 483 254	
125	140	5	161 490 893	163 481 455	169 480 955	167 483 230	175 483 255	
150	160	6	161 490 894	163 481 456	169 480 956	167 483 231	175 483 256	
200	225	8	161 490 895	163 481 457	169 480 957	167 483 232	175 483 257	
250	280	10	161 490 896	163 481 458	169 480 958	167 483 233	175 483 258	
300	315	12	161 490 897	163 481 459	169 480 959	167 483 234	175 483 259	
350	355	14				167 483 235		
400	400	16				167 483 236		
450	450	18				167 483 237		
500	500	20				167 483 238		
600	630	24				167 483 239		

Inner body for butterfly valve type 567/578 EPDM

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

DN (mm)	d (mm)	Inch (")	PVC-U EPDM Code	PVC-C EPDM Code	ABS EPDM Code	PP-H EPDM Code	Product picture
50	63	2	161 486 861	163 481 591	169 481 067	167 484 271	
65	75	2 ½	161 486 862	163 481 592	169 481 068	167 484 272	
80	90	3	161 486 863	163 481 593	169 481 069	167 484 273	
100	110	4	161 486 864	163 481 594	169 481 070	167 484 274	
125	140	5	161 486 865	163 481 595	169 481 071	167 484 275	
150	160	6	161 486 866	163 481 596	169 481 072	167 484 276	
200	225	8	161 486 867	163 481 597	169 481 073	167 484 277	
250	280	10	161 486 868	163 481 598		167 484 278	
300	315	12	161 486 869	163 481 599		167 484 279	

Inner body for butterfly valve type 567/578 FKM / PTFE

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

DN (mm)	d (mm)	Inch (")	PVC-U FKM Code	PVC-C FKM Code	PP-H FKM Code	PVDF FKM Code	PVDF PTFE Code	Product picture
50	63	2	161 486 873	163 481 603	167 484 286	175 483 413	175 483 752	
65	75	2 ½	161 486 874	163 481 604	167 484 287	175 483 414	175 483 753	
80	90	3	161 486 875	163 481 605	167 484 288	175 483 415	175 483 754	
100	110	4	161 486 876	163 481 606	167 484 289	175 483 416	175 483 755	
125	140	5	161 486 877	163 481 607	167 484 290	175 483 417	175 483 756	
150	160	6	161 486 878	163 481 608	167 484 291	175 483 418	175 483 757	
200	225	8	161 486 879	163 481 609	167 484 292	175 483 419	175 483 758	
250	280	10	161 486 880	163 481 610	167 484 293	175 483 420	175 483 759	
300	315	12	161 486 881	163 481 611	167 484 294	175 483 421	175 483 760	

Bearing bush for butterfly valve type 567/578

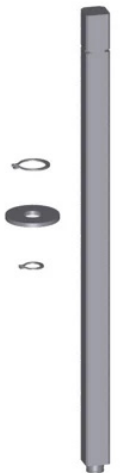
- Included in delivery 2 pcs.
- With o-ring
- Bearing bushes in PP-H are used in PP-H and ABS butterfly valves

DN (mm)	d (mm)	Inch (")	PVC-U EPDM Code	PVC-U FKM Code	PVC-C EPDM Code	PVC-C FKM Code	PP-H EPDM Code	PP-H FKM Code	PVDF FKM Code	Product picture
50	63	2	161 486 886	161 486 892	163 481 576	163 481 582	167 484 259	167 484 265	175 483 426	
65	75	2 ½	161 486 886	161 486 892	163 481 576	163 481 582	167 484 259	167 484 265	175 483 426	
80	90	3	161 486 886	161 486 892	163 481 576	163 481 582	167 484 259	167 484 265	175 483 426	
100	110	4	161 486 887	161 486 893	163 481 577	163 481 583	167 484 260	167 484 266	175 483 427	
125	140	5	161 486 887	161 486 893	163 481 577	163 481 583	167 484 260	167 484 266	175 483 427	
150	160	6	161 486 888	161 486 894	163 481 578	163 481 584	167 484 261	167 484 267	175 483 428	
200	225	8	161 486 888	161 486 894	163 481 578	163 481 584	167 484 261	167 484 267	175 483 428	
250	280	10	161 486 889	161 486 895	163 481 579	163 481 585	167 484 262	167 484 268	175 483 429	
300	315	12	161 486 889	161 486 895	163 481 579	163 481 585	167 484 262	167 484 268	175 483 429	
350	355	14					167 484 263	167 484 269		
400	400	16					167 484 264	167 484 270		
450	450	18					167 484 280	167 484 283		
500	500	20					167 484 281	167 484 284		
600	630	24					167 484 282	167 484 285		

Shaft set for butterfly valve type 567/578

- Shaft set consisting of: shaft chrom steel 1.4404 (SUS316L) (6), retention ring (7, 9) and washer (8)

DN (mm)	d (mm)	Inch (")	Code
50	63	2	161 486 899
65	75	2 ½	161 486 900
80	90	3	161 486 901
100	110	4	161 486 902
125	140	5	161 486 903
150	160	6	161 486 904
200	225	8	161 486 905
250	280	10	161 486 906
300	315	12	161 486 907
350	355	14	161 486 908
400	400	16	161 486 909
450	450	18	161 486 926
500	500	20	161 486 927
600	630	24	161 486 928

**Snap ring DN350-600 for butterfly valve type 567**

- For fixation of profile seal in body

DN (mm)	d (mm)	Inch (")	PP-H Code
350	355	14	167 484 295
400	400	16	167 484 296
450	450	18	167 484 297
500	500	20	167 484 298
600	630	24	167 484 299

Profile seal (13) DN350-600 for butterfly valve type 567

DN (mm)	d (mm)	Inch (")	EPDM Code	FKM Code
350	355	14	748 440 018	749 440 028
400	400	16	748 440 019	749 440 029
450	450	18	748 440 020	749 440 030
500	500	20	748 440 021	749 440 031
600	630	24	748 440 022	749 440 032

End stop PP GF (4) for butterfly valve type 567/578

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

Flange gasket (12) for butterfly valve type 567/578

• Included in delivery 1 pcs.

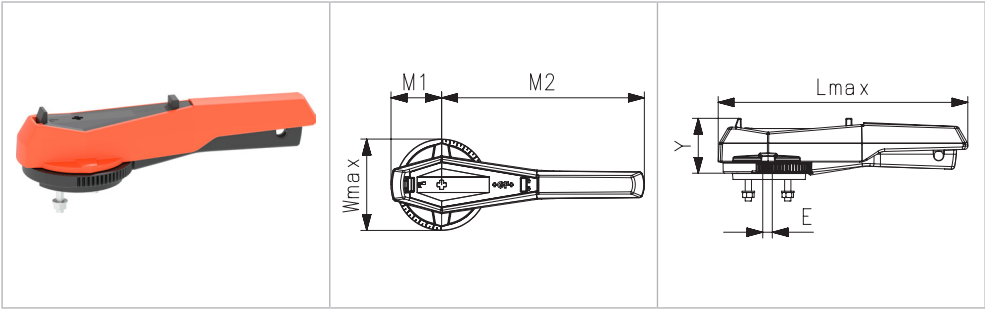
DN (mm)	d (mm)	Inch (")	EPDM Code	FKM Code
50	63	2	161 486 959	161 486 979
65	75	2 ½	161 486 960	161 486 980
80	90	3	161 486 961	161 486 981
100	110	4	161 486 962	161 486 982
125	140	5	161 486 963	161 486 983
150	160	6	161 486 964	161 486 984
200	225	8	161 486 965	161 486 985
250	280	10	161 486 966	161 486 986
300	315	12	161 486 967	161 486 987
350	355	14	748 410 318	749 410 318
400	400	16	748 410 319	749 410 319
450	450	18	748 410 320	749 410 320
500	500	20	748 410 321	749 410 321
600	630	24	748 410 322	749 410 322



Accessories

Hand lever

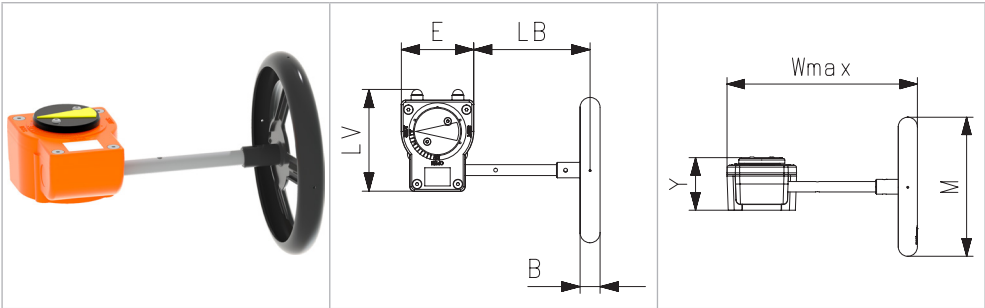
Hand lever incl. fastening screws.



d (mm)	DN (mm)	Inch (")	With index plate Code	With fine adjustment Code	Wmax (mm)	Lmax (mm)	M1 (mm)	M2 (mm)	Y (mm)	E (mm)
63 - 90	50 - 80	2 - 3	161 486 690	161 486 325	115.2	269.0	64.7	205.5	66.8	11
110 - 140	100 - 125	4 - 5	161 486 691	161 486 326	115.2	318.9	64.9	255.5	70.1	14
160	150	6	161 486 694	161 486 327	115.2	318.9	64.9	255.5	70.1	17
225	200	8	161 486 695	161 486 328	149.4	509.7	103.6	409.5	86.3	17
280 - 315	250 - 300	10 - 12	161 486 697		149.4	509.7	103.6	409.5	86.3	22

Reduction gear

For valve operation via a manual gear with handwheel.



d (mm)	DN (mm)	Inch (")	Code	Wmax (mm)	LV (mm)	Y (mm)	M (mm)	B (mm)	E (mm)	LB (mm)
63 - 225	50-200	2 - 8	161 483 471	221.0	112.3	61.2	160.0	23.0	80.0	129.5
280 - 315	250-300	10 - 12	161 483 472	246.3	130.0	68.4	200.0	24.6	100.0	134.0

Manual override

Code	Acc. to ISO 5211	Lmax (mm)	Wmax (mm)	M9 (mm)	M10 (mm)	X8 (mm)	Y2 (mm)	Dimensions	Product picture
198 000 623	F05	172	250	90	100	298	60		
198 000 624	F07	172	250	90	100	298	60		
198 000 625	F07	172	250	90	100	298	60		

i Not recommended to use with pneumatic actuators.

Gearbox with direct mount chain wheel

For valve operation via a manual gear with chainwheel.

- Chains need to be ordered separately.
- A pre-assembly is possible. If needed - please contact your local sales team.

DN (mm)	Code	Product picture
50-80	199 565 980	
100-125	199 565 981	
150-200	199 565 982	
250-300	199 565 983	

Chain to chainwheel

- For 199565980-199565987
- Can be ordered in different lengths. Mass unit is 1 meter.

DN (mm)	Code	Material	Product picture
50-300	199 565 989	Zink plated	
50-300	199 565 990	AISI316	

Electrical position feedback

Integrated electrical position indicator (IER)

- Position indicator in combination with actuators
- For manual valve as well as for manual reduction gear

General technical data of the electrical position indicator:

- Protection rating with DIN plug (2) IP65
- Protection rating with cable gland IP67
- Ambient temperature: -10 °C to +50 °C

Assignment of the electrical position indicator to butterfly valve of types 567 and 578:

Shaft	Dimension
1	11 mm DN50 – DN80
2	14 mm DN100 – DN125
3	17 mm DN150 – DN200

Double Sensor for electrical and visual position feedback

After being mounted in the valve or in the interface module, the double sensor is used to signal the CLOSED or OPEN position of the valve via an electric signal to a controller, supplied by the customer. In addition, the Double Sensor provides visual position feedback via the two build-in LEDs.

Code	Output circuit	Open Signal Color	Closed Signal Color	Product picture
198 546 001	PNP	LED red	LED green	
198 546 002	PNP	LED green	LED red	
198 546 005	NPN	LED red	LED green	
198 546 006	NPN	LED green	LED red	
198 546 003	NAMUR	LED red	LED green	
198 546 004	NAMUR	LED green	LED red	



Suitable connection cable code 198546150 available as an accessory.

Multi-pin plug, for double sensors type DCI and DTM

- Accessory for Ball Valve type 546 Pro and Butterfly Valve 565
- Connects double sensor to PLC
- Cable is flame-resistant
- Degree of protection IP67 / IP68 / IP69K

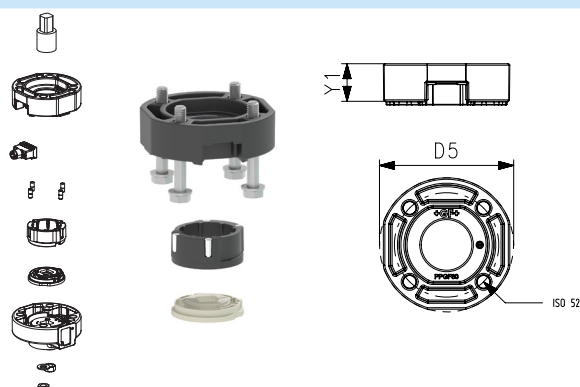
Code	Model
198 546 150	Connector without cable
198 546 151	Connector with cable (5m PVC)
198 546 152	Connector with cable (10m PVC)
198 546 153	Connector with cable (5m PUR)
198 546 154	Connector with cable (10m PUR)

**Adapter for Double sensors**

Adapter to mount the double sensor on butterfly valves type 567. Double sensor for electrical position feedback must be ordered separately. The adapter kit can only be used with existing intermediate elements for the respective application (e.g. butterfly valve with pneumatic actuator).

Accessory for Butterfly Valve Type 567 and 578 for DN50-200 and Ball Valve 546 PRO DN65-100 to enable the installation of the inductive double sensor

Code	DN (mm)	d (")	Actuation Type	D5 (mm)	Y1 (mm)
161486949	DN50-DN80	2"-3"	Lever	90	25
161486951	DN100-DN125	4"-5"	Lever	90	25
161486950	DN150-DN200	6"-8"	Lever	90	25

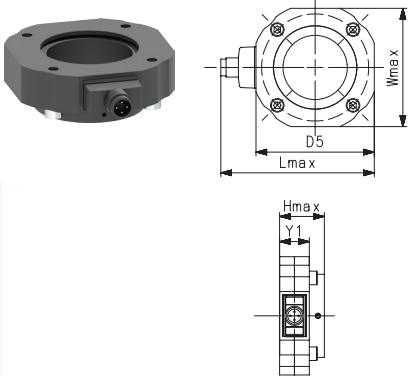
**Accessory for Butterfly Valve Type 567 and 578 for DN50-200 and Ball Valve 546 PRO, DN65-100 to enable the installation of the inductive double sensor**

Code	DN (mm)	d (")	Actuation Type
161486956	DN50	2"	PA DA
161486955	DN50-DN65	2"-2.5"	PPA, PA FC/FO, EA
161486953	DN80	3"	PPA
161486954	DN80	3"	PA, EA
161486952	DN100-DN125	4"-5"	PPA
161486951	DN100-DN125	4"-5"	PA, EA
161486950	DN150-DN200	6"-8"	PA, EA



Double Sensor Adapter for Butterfly Valve Type 567

Code	DN (mm)	D5 (mm)	Hmax (mm)	Hmax (mm)	Wmax (mm)	Y1 (mm)
167484209	DN350-400	74	28	96	74	18.6
167484210	DN450-600	74	28	96	74	18.6

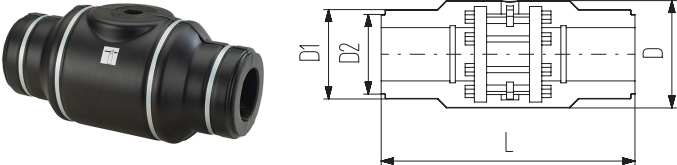


COOL-FIT 2.0/4.0 Insulation for Butterfly Valve Type 567

Model:

- Set consisting of half shells and clamps

Note: Suitable for COOL-FIT butterfly valve only

DN (mm)	d (mm)	Inch (")	Code	D1 (mm)	D2 (mm)	L (mm)	Product picture
100	110	4	738 990 324	188	168	556	
125	140	5	738 990 326	233	208	662	
150	160	6	738 990 327	259		720	
200	225	8	738 990 330	325		776	

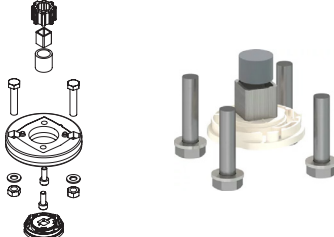
Intermediate elements

Intermediate elements are required as a connection between valve and Actuator. The intermediate elements include different screws, hexagon nuts, washer, switching rings, etc. (depends on actuator and dimension).

Intermediate elements for Reduction Gear

DN (mm)	Code	Interface acc. to ISO 5211	Product picture example
50 - 80	198 000 621	F07	
100 - 125	198 000 622	F07	
150 - 200	198 000 600	F07	
250 - 300	198 000 732	F07	

Intermediate elements for Electric Actuators EA45-250, dEA45-250

DN (mm)	Code	Actuator Type	Acc. to ISO 5211	Product picture example
50 - 65	198 000 943	EA45	F05/F07	
80	198 000 601	xEA120	F07	
100 - 125	198 000 602	xEA120	F07	
150	198 000 600	xEA120	F07	
200 - 250	198 000 603	xEA250	F07	
300	198 000 732	xEA250	F07/F10	

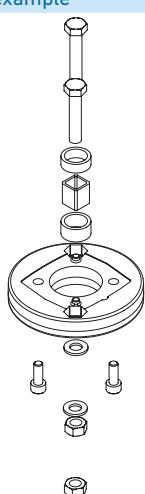
Intermediate elements for Pneumatic Actuators PPA, function FC/F0

DN (mm)	Code	Typ	Acc. to ISO 5211	Product picture example
50 - 65	198 000 950	PPA40	F05/F07	
80	198 000 949	PPA80	F05/F07	
100 - 125	198 000 948	PPA80	F05/F07	

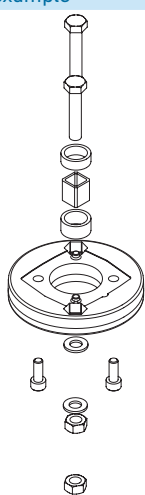
Intermediate elements for Pneumatic Actuators PPA, function DA

DN (mm)	Code	Typ	Acc. to ISO 5211	Product picture example
50 - 65	198 000 950	PPA40	F05/F07	
80	198 000 950	PPA40	F05/F07	
100 - 125	198 000 948	PPA80	F05/F07	

Intermediate elements for Pneumatic Actuators PA30-90, function FC/F0

DN (mm)	Butterfly valve type	Code	Type	Acc. to ISO 5211	Product picture example
50	567/578	198 000 791	PA30	F05/F07	
65	567/578	198 000 791	PA30	F05/F07	
80	567/578	198 000 793	PA35	F05/F07	
100	567/578	198 000 794	PA40	F07	
125	567/578	198 000 795	PA45	F07	
150	567/578	198 000 796	PA50	F07	
200	567/578	198 000 798	PA55	F07	
250	567	198 000 730	PA65	F10	
250	578	198 000 945	PA65	F10	
300	567	198 000 225	PA70	F10	
300	578	198 000 946	PA70	F10	

Intermediate elements for Pneumatic Actuators PA30-90, function DA

DN (mm)	Butterfly valve type	Code	Type	Acc. to ISO 5211	Product picture example
50	567/578	198 000 595	PA35	F05/F07	
65	567/578	198 000 595	PA35	F05/F07	
80	567/578	198 000 791	PA40	F07	
100	567/578	198 000 794	PA45	F07	
125	567/578	198 000 797	PA45	F07	
150	567/578	198 000 796	PA55	F07	
200	567/578	198 000 796	PA55	F07	
250	567	198 000 731	PA65	F10	
250	578	198 000 944	PA65	F10	
300	567	198 000 731	PA65	F10	
300	578	198 000 944	PA65	F10	

Electric Actuator EA25-250

The EA45/120/250 electric actuator is mounted on a valve (e.g. ball valve or butterfly valve) and connected to a control system provided by the customer. It actuates the valve with a rotary movement of up to 180°.

Code	Type	Voltage	Torque max.	Acc. to ISO 5211
198 153 180	EA15	AC 100-230V	20 Nm	F05 (SW 11/14)
198 153 181	EA15	AC/DC 24V	20 Nm	F05 (SW 11/14)
198 153 182	EA25	AC 100-230V	25 Nm	F05 (SW 11/14)
198 153 183	EA25	AC/DC 24V	25 Nm	F05 (SW 11/14)
198 153 184	EA45	AC 100-230V	45 Nm	F05 (SW 11/14)
198 153 185	EA45	AC/DC 24V	45 Nm	F05 (SW 11/14)
198 153 186	EA120	AC 100-230V	120 Nm	F07 (SW17)
198 153 187	EA120	AC/DC 24V	120 Nm	F07 (SW17)
198 153 188	EA250	AC 100-230V	250 Nm	F07 (SW17)
198 153 189	EA250	AC/DC 24V	250 Nm	F07 (SW17)



Smart Actuator dEA45-250

The Smart Actuator dEA45/120/250 is mounted on a valve (e.g. ball valve or butterfly valve) and connected to a control system provided by the customer. It actuates the valve with a rotary movement up to 180°. The Smart Actuator offers wireless connectivity via NFC and Wi-Fi Direct, as well as control and reading of process data via downloadable App.

Code	Type	Voltage	Torque max.	Acc. to ISO 5211
198 153 192	dEA25	AC 100-230V	25 Nm	F05 (SW 11/14)
198 153 193	dEA25	AC/DC 24V	25 Nm	F05 (SW 11/14)
198 153 194	dEA45	AC 100-230V	45 Nm	F05 (SW 11/14)
198 153 195	dEA45	AC/DC 24V	45 Nm	F05 (SW 11/14)
198 153 196	dEA120	AC 100-230V	120 Nm	F07 (SW17)
198 153 197	dEA120	AC/DC 24V	120 Nm	F07 (SW17)
198 153 198	dEA250	AC 100-230V	250 Nm	F07 (SW17)
198 153 199	dEA250	AC/DC 24V	250 Nm	F07 (SW17)



Pneumatic Actuator PPA

The PPA pneumatic actuator can be mounted on any rotary valves with an interface according to ISO 5211.

Single-acting FC

Code	Type	Torque max.	Acc. to ISO 5211
198 155 081	PPA08	7.65 Nm	F05
198 155 151	PPA15	18.33 Nm	F05
198 155 154	PPA15	18.33 Nm	F05
198 155 401	PPA40	36.35 Nm	F05
198 155 801	PPA80	81.83 Nm	F07
198 155 805	PPA80	81.83 Nm	F07



Single-acting F0

Code	Type	Drehmoment max.a Torque max.	Acc. to ISO 5211
198 155 082	PPA08	7.65 Nm	F05
198 155 152	PPA15	18.33 Nm	F05
198 155 155	PPA15	18.33 Nm	F05
198 155 402	PPA40	36.35 Nm	F05
198 155 802	PPA80	81.83 Nm	F07
198 155 804	PPA80	81.83 Nm	F07



Double-acting DA

Code	Type	Torque max.	Acc. to ISO 5211
198 155 043	PPA04	5.31 Nm	F03
198 155 083	PPA08	11.92 Nm	F05
198 155 153	PPA15	28.49 Nm	F05
198 155 403	PPA40	53.02 Nm	F05
198 155 803	PPA80	121.36 Nm	F07



Pneumatic Actuator PA30-90

The PA30 - PA90 pneumatic actuator can be mounted on any rotary valves with an interface according to ISO 5211.

Single-acting FC

Code	Type	Torque max.	Acc. to ISO 5211
198 811 617	PA30	30 Nm	F05/07
198 811 601	PA35	53 Nm	F05/07
198 811 609	PA40	60 Nm	F05/07
198 811 603	PA45	90 Nm	F07/10
198 811 610	PA50	120 Nm	F07/10
198 811 605	PA55	180 Nm	F07/10/12
198 811 652	PA60	240 Nm	F10/12
198 811 607	PA65	360 Nm	F10/12
198 811 612	PA70	480 Nm	F10/12



Single-acting F0

Code	Type	Torque max.	Acc. to ISO 5211
198 811 627	PA30	30 Nm	F05/07
198 811 628	PA35	53 Nm	F05/07
198 811 629	PA40	60 Nm	F05/07
198 811 630	PA45	90 Nm	F07/10
198 811 631	PA50	120 Nm	F07/10
198 811 632	PA55	180 Nm	F07/10/12
198 811 653	PA60	240 Nm	F10/12
198 811 654	PA65	360 Nm	F10/12
198 811 634	PA70	480 Nm	F10/12



Double-acting DA

Code	Type	Torque max.	Acc. to ISO 5211
198 811 616	PA30	30 Nm	F03/05
198 811 618	PA35	45 Nm	F03/05
198 811 619	PA40	60 Nm	F05/07
198 811 604	PA45	106 Nm	F05/07
198 811 613	PA50	120 Nm	F07/10
198 811 606	PA55	180 Nm	F07/10
198 811 614	PA60	240 Nm	F07/10
198 811 608	PA65	360 Nm	F07/10
198 811 615	PA70	480 Nm	F10/12



Accessories for electric actuators

Order code	Compatibility	Designation	Description
199 190 610	EA15	Fail-safe return unit with integrated battery pack	In case of a power outage, the fail-safe return unit can be used to move to a preset safe position (OPEN/CLOSE). Assembly in the housing actuator
199 190 601	EA25-250	External fail-safe return unit	In case of a power outage, the fail-safe return unit can be used to move to a preset safe position (OPEN/CLOSE). Voltage supply (24 V DC) implemented externally
199 190 611	EA15		
199 190 604	EA25-250		
199 190 603	EA25-250	Positioner	For continuous control operation (4-20 mA / 0-10 V)
199 190 602	EA25-250	Monitoring	For monitoring control time and motor current, as well as for extending the control times and counting the control cycles (even without bus system) via a collective alarm
199 190 605	EA25-250	Profibus	For integrating the actuator into a Profibus DP network
199 190 600		Diagnostic tool	For reading various data for a first error diagnosis via USB
199 190 562		AS-Interface module ASEV 2400	Connection to an AS-i network (supply in combination with limit switch kit)
198 000 587		Adapter SW 11 for F04	Modification for valves with F04 interface
198 204 057		Adapter SW 14 for F05	Modification for valves with F05 interface
198 803 145		Reducer bushing WS 11 for F05	Adjustment for valves with F05 interface and wrench size 11
198 000 502		Standard plug set	For the connection of accessories
199 190 606	EA25-250	Plug set 4 pin	For connection of MIDDLE position feedback
199 190 607		EA Demo Box	Box to demonstrate all functions of EA
199 190 612		Display 2-way	Optical position display for 2-way valve (10 pcs)
199 190 613	EA25-250	Display 3-way "L" horizontal	Optical position display for 3-way valve (10 pcs)
199 190 614	EA25-250	Display 3-way "T" horizontal	Optical position display for 3-way valve (10 pcs)
199 190 615	EA25-250	Display 3-way "L" vertical	Optical position display for 3-way valve (10 pcs)
199 190 616	EA25-250	Display 3-way "T" vertical	Optical position display for 3-way valve (10 pcs)
199 190 617	EA25-250	Modbus RTU Interface Card	Modbus RTU Interface board for Electric Actuators Type EA25 - EA250
199 190 660	EA25-250	Modbus TCP Interface Card	Modbus TCP Interface board for Electric Actuators Type EA25 - EA250
199 190 661	EA25-250	EtherNet/IP Interface Card	EtherNet/IP Interface board for Electric Actuators Type EA25 - EA250
199 190 662	EA25-250	PROFINET Interface Card	PROFINET Interface board for Electric Actuators Type EA25 - EA250
199 190 663	EA25-250	M12 Ethernet Adapter Set	Ethernet adapter set for version with M12 connector

Accessories for pneumatic actuators

Positioner Type RPC, Type RPC D, Type RPC PID for single- and double-acting rotary actuators

Designation	Code	Description
RPC	199 190 640	Positioner for single- and double-acting rotary actuators
RPC D	199 190 641	Position controller for single- and double-acting rotary actuators
RPC PID	199 190 644	Process controller for single- and double-acting rotary actuators



Solenoid pilot valve type PV95 3/2-way for single acting actuators

Order code	Description	Voltage	Cable plug shape	Hollow bolt, length	Compressed air connection (P)	Working connection actuator (A)
199190532	PV95 Pilot Valve, 0-10 bar	24 VDC	A	76 mm	G $\frac{1}{4}$ "	G $\frac{1}{8}$ "
199190533	PV95 Pilot Valve, 0-10 bar	24 VAC, 50 Hz	A	76 mm	G $\frac{1}{4}$ "	G $\frac{1}{8}$ "
199190534	PV95 Pilot Valve, 0-10 bar	110 VAC	A	76 mm	G $\frac{1}{4}$ "	G $\frac{1}{8}$ "
199190535	PV95 Pilot Valve, 0-10 bar	230 VAC	A	76 mm	G $\frac{1}{4}$ "	G $\frac{1}{8}$ "

Solenoid pilot valve type PV96 3/2 way valve for single acting actuators

Order code	Description	Voltage	Cable plug shape	Hollow bolt, length	Compressed air connection (P)	Working connection actuator (A)
199196100	PV96 Pilot Valve, 0-8 bar	24 VDC	B	76 mm	NPT $\frac{1}{8}$ "	G $\frac{1}{4}$ " *
199196101	PV96 Pilot Valve, 0-8 bar	24 VDC	B	60 mm	G $\frac{1}{8}$ "	G $\frac{1}{4}$ " *
199196102	PV96 Pilot Valve, 2-7 bar	24 VAC, 50 Hz	B	76 mm	NPT $\frac{1}{8}$ "	G $\frac{1}{4}$ " *
199196103	PV96 Pilot Valve, 0-8 bar	24 VDC	B	60 mm	G $\frac{1}{8}$ "; tube fitting Ø6mm	G $\frac{1}{4}$ " *
199196104	PV96 Pilot Valve, 2-7 bar	24 VAC, 50 Hz	B	60 mm	G $\frac{1}{8}$ "; tube fitting Ø6mm	G $\frac{1}{4}$ " *
199196105	PV96 Pilot Valve, 2-7 bar	110 VAC, 50 Hz	B	60 mm	G $\frac{1}{8}$ "; tube fitting Ø6mm	G $\frac{1}{4}$ " *
199196106	PV96 Pilot Valve, 2-7 bar	120 VAC, 60 Hz	B	76 mm	NPT $\frac{1}{8}$ "	G $\frac{1}{4}$ " *
199196107	PV96 Pilot Valve, 2-7 bar	230 VAC, 50 Hz	B	60 mm	G $\frac{1}{8}$ "; tube fitting Ø6mm	G $\frac{1}{4}$ " *
199196108	PV96 Pilot Valve, 2-7 bar	230 VAC, 50 Hz	B	60 mm	G $\frac{1}{8}$ "	G $\frac{1}{4}$ " *

Solenoid pilot valve type MNL532 3/2-& 5/2-way for single and double acting actuators with NAMUR interface

Order code	Description	Voltage
199 190 360	MNL532 pilot valve, 2-10 bar	230 V, AC
199 190 359	MNL532 pilot valve, 2-10 bar	115 V, AC
199 190 361	MNL532 pilot valve, 2-10 bar	48 V, AC
199 190 358	MNL532 pilot valve, 2-10 bar	24 V, AC
199 190 357	MNL532 pilot valve, 2-10 bar	24 V, DC

Solenoid pilot valve type PV2000

Order code	Description	Pilot valve compatibility
199 190 436	Solenoid pilot valve type PV2000	1 x 5/2-way valve
199 190 435	Solenoid pilot valve type PV2000	2 x 3/2-way valve



For further information on accessories, refer to the online product catalog at www.gfps.com

■ Mobile apps and online tools to support configuration and calculation at www.gfps.com/tools

