PTFE LINED BUTTERFLY VALVE

The 2-Cx lined butterfly valve features a state-of-the-art design which provides excellent shutoff protection and high flow rates with an exceptionally long service life. It has been specifically engineered to meet the stringent demands of the Chemical Industry.

MEDIA

- Chlorine
- Chlorine Dioxide
- Hydriodic Acid
- Hydrobromic Acid
- Hydrochloric Acid
- Hydrofluoric Acid
- Hydrofluorsilicic Acid
- Hydrogen Chloride
- Hydrogen Cyanide
- Nitric Acid
- Sodium Chlorate
- Sodium Chlorite
- Sodium Hypochlorite
- Sulfuric Acid

SPECIFICATIONS

Size Range[1]	DN 50 to 600	
	NPS 2 to 24	
Temperature Range	-20°C to 200°C	
	0°F to 392°F	
Maximum Operating Pressure (Bidirectional)	DN 50 to 600:	10 bar
	NPS 2 to 24:	150 psi
Maximum Operating Pressure (Dead End Service[2])	DN 50 to 300:	5 bar
	DN 350 to 600:	3 bar
	NPS 2 to 12:	75 psi
	NPS 14 to 24:	50 psi
Body Style[3]	Series 22-Cx:	Two-piece wafer
	Series 23-Cx:	Two-piece lug
Tightness Test	EN 12266-1 Rate A | API 598	
Velocity Limits (On-Off Service)	Fluids:	9 m/s | 30 ft/s
	Gases:	54 m/s | 180 ft/s

NOTES
1 Other sizes on request.
2 Lug body only.
3 Series 23-Cx DN 600 body style is double flange only.

CERTIFICATIONS & APPROVALS

Certifications	CE: PED 2014/68/EU
	SIL 3 capable
Fugitive Emissions	ISO 15848-1
	TA-Luft 2021
Approvals	ATEX 2014/34/EU
	CRN

MATERIAL OPTIONS[1]

Body	Ductile Iron, Low Temperature (EN 5.3103)
	Ductile Iron (ASTM A395)
Disc	Stainless Steel (PTFE-lined)
	Stainless Steel (MPTFE-lined)
Stem	Stainless Steel
Seat	PTFE
	MPTFE
	Conductive PTFE
Seat Energizer	FKM
Body Fasteners	A4-70
	A193 Gr. B7

NOTES
1 Other materials are available on request.

DESIGN STANDARDS

Valve Design	EN 12569 | EN 593 | NE 167 API 609 | MSS SP-155
Material Standard	EN 16668 | AD2000 W0
Food Contact	EC 1935
Marking	EN 19 | DIN EN IEC 61406 | DIN 91406
Top Flange	ISO 5211
Flange Drilling	EN 1092-1 PN 10 | ASME B16.5 Cl 125/150
Face-to-Face	EN 558 Series 20 | API 609
Testing Standard	EN 12266-1 & 2 | API 598
AutoID/ID Link	DIN 91406/IEC 61406

1 **ANTI-STATIC:** Electrostatic discharge through anti-static design. (Grounding device and top flange drilling only in NE 167 design).

2 **STEM DESIGN:** The high-strength stem design includes blowout-proof functionality for safe operation and exceptional service life.

3 **STEM BUSHING:** Non-corrosive, heavy duty acetal bushing absorbs actuator side thrust.

4 **DIGITAL TAG:** Each valve is uniquely and easily identifiable by simply scanning the QR Code on the product identification tag in accordance to IEC 61406.

5 **BEARINGS:** PTFE impregnated steel bearings precisely align the upper and lower stem.

6 **STEM SEAL SYSTEM:** The live-loaded, self-adjusting packing design features a primary and secondary sealing principle to comply with the most stringent fugitive emission requirements.

7 **SEAT:** The unique fluoropolymer (minimum 3 mm thick) seat features a geometry that lowers seating and unseating torque while reducing wear on the contacting parts.

8 **SEAT ENERGIZER:** A resilient seat energizer extends completely around the seat, including the disc hub providing uniform force sufficient for zero-leakage.

9 **DISC:** The disc is encapsulated in fluoropolymer material (minimum 3 mm thick) for superior sealing against the most agressive media.