



Teflon Lined Butterfly Valves



ACHEM Teflon Lined Butterfly Valve

Size 1 ½" - 48"

Flange PN6/PN10/PN16/150LB/10K/Table D /Table E

Design EN593/API609/BS5155/ISO5211/EN1092

Mounting Flange ISO 5211

Testing Standard API598 ISO5208 EN12266-1



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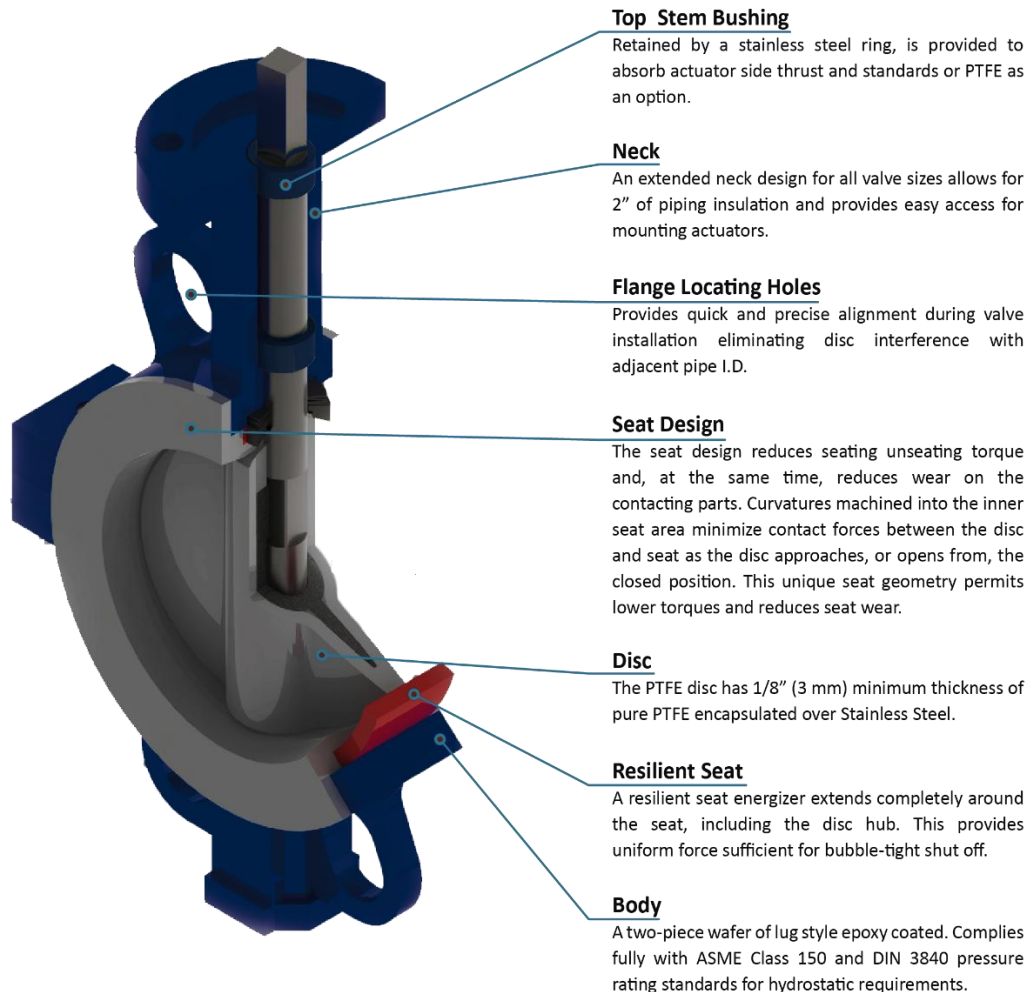
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Description



Top Stem Bushing

Retained by a stainless steel ring, is provided to absorb actuator side thrust and standards or PTFE as an option.

Neck

An extended neck design for all valve sizes allows for 2" of piping insulation and provides easy access for mounting actuators.

Flange Locating Holes

Provides quick and precise alignment during valve installation eliminating disc interference with adjacent pipe I.D.

Seat Design

The seat design reduces seating unseating torque and, at the same time, reduces wear on the contacting parts. Curvatures machined into the inner seat area minimize contact forces between the disc and seat as the disc approaches, or opens from, the closed position. This unique seat geometry permits lower torques and reduces seat wear.

Disc

The PTFE disc has 1/8" (3 mm) minimum thickness of pure PTFE encapsulated over Stainless Steel.

Resilient Seat

A resilient seat energizer extends completely around the seat, including the disc hub. This provides uniform force sufficient for bubble-tight shut off.

Body

A two-piece wafer of lug style epoxy coated. Complies fully with ASME Class 150 and DIN 3840 pressure rating standards for hydrostatic requirements.



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Product Features

Size	DN	40mm-300mm	350mm-1200mm
	Inch	1-1/2"-12"	14"-24"
Working		10bar	
Testing	Shell	15bar	
	Seal	11bar	

- **Absolutely Tight Sealing:** Ensures leak-proof performance with flow in either direction, providing superior sealing capabilities.
- **Low Operating Torque:** The precisely machined valve body and disc contribute to reduced operating torque, making the valve easier to operate and more energy-efficient.
- **Long Service Life & Reliability:** The PTFE lining prevents corrosion, extending the valve's lifespan and enhancing overall reliability, even in harsh or corrosive environments.
- **Disassembly & Recycling:** The valve can be disassembled for maintenance or repair, and the materials are recyclable, supporting sustainable practices in industrial settings.

Working/Testing Pressure



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Working Temperature

Seat Material	EPDM	NBR	FKM	PTFE
Temperature	-10°C to 120°C	-10°C to 80°C	-15°C to 200°C	-25°C to 180°C

Material Specification

Part	Material
Body	Ductile Iron CF8 CF8M CF3M Duplex Steel Al-Bronze
Disc	WCB CF8 CF8M CF3M Duplex Steel /PTFE
Shaft	SS431 SS316 17-4PH
Seat	PTFE/PFA
Bushing	Stainless Steel Ring
Lever	Malleable Iron Carbon Steel Aluminum SS316
Gear Box	Ductile Iron Aluminum SS316

Corrosion Protection

Epoxy Resin Powder Spray, The minimum thickness is not less than 300 microns



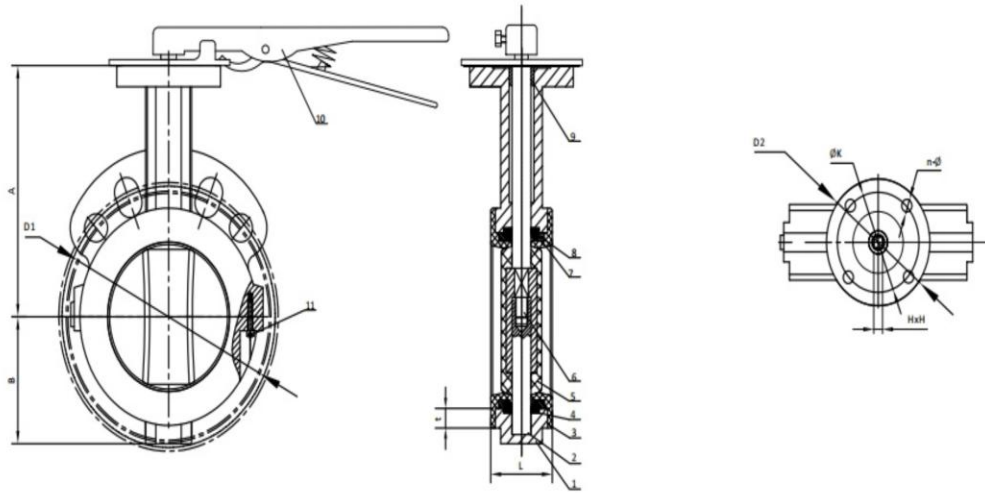
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unit: mm

Size		D1	L	A	B	H x H	D2	K	n - φ	t	ISO 5211
inch	mm										
2"	50	120.7	43	140	70	9 x 9	90	70	4 - 10	12	F07
2 1/2"	65	139.7	46	150	80	9 x 9	90	70	4 - 10	14	F07
3"	80	152.4	46	160	85	9 x 9	90	70	4 - 10	14	F07
4"	100	190.5	52	178	110	11 x 11	90	70	4 - 10	14	F07
5"	125	215.9	56	190	120	14 x 14	90	70	4 - 10	16	F07
6"	150	241.3	56	200	135	14 x 14	90	70	4 - 10	17	F07
8"	200	298.5	60	240	170	17 x 17	125	102	4 - 12	21	F10
10"	250	361	68	273	195	22 x 22	125	102	4 - 12	22	F10
12"	300	431.8	78	310	220	22 x 22	125	102	4 - 12	22	F10



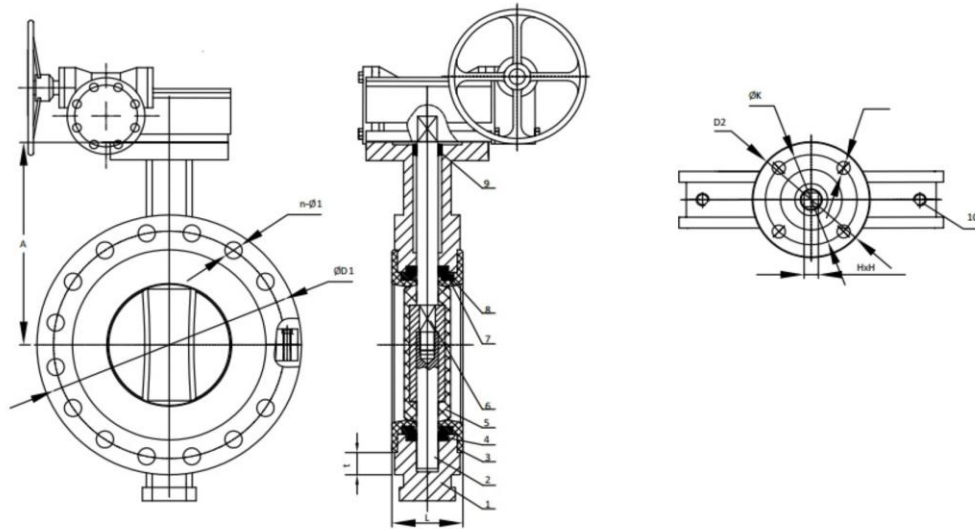
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unit: mm

Size		D1	L	A	B	H x H	D2	K	n - Ø	t	ISO 5211
Inch	mm										
14"	350	476.3	78	346	70	22 x 22	125	102	4 - 12	39	F10
16"	400	539.8	102	375	80	27 x 27	175	40	4 - 18	43	F14
18"	450	577.9	114	406	85	27 x 27	175	140	4 - 18	28	F14
20"	500	635.0	127	438	110	36 x 36	210	165	4 - 22	30	F16
24"	600	749.3	154	495	120	36 x 36	210	165	4 - 22	31	F16



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