

Grooved End Stainless Steel Butterfly Valve with Lever Handle Model B480



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The Model B480 Grooved End Stainless Steel Butterfly Valve with Lever Handle is a grooved-end stainless steel butterfly valve designed for 300 psi service, supplied with a 10-position locking lever handle. The end-to-end dimensions conform to MSS SP-67. The body is investment cast in grade CF8M (Type 316) to ASTM A743 with integral neck and ISO mounting top flange. The neck height allows for pipe insulation up to two inches thick. The disc is a dual-seal type, encapsulated either with Grade “EN” EPDM for cold water services or with Grade “T” Nitrile for oil services. The Model B480 Stainless Steel Butterfly Valves with standard disc and Grade “EN” EPDM seat are UL classified to ANSI/NSF 61 and ANSI/NSF 372.

Maximum Working Pressure: 300 psi (20 bar)

Materials of Construction

Valve Body

CF8M (Type 316) Stainless Steel conforming to ASTM A743 or A351, or A744 which is UL Classified in accordance with ANSI/ NSF 61 and ANSI/NSF 372 for potable water use up to 180°F (82°C)

Stems

Stainless Steel Type 410 conforming to ASTM A582

Disc

CF8M (Type 316) Stainless Steel conforming to ASTM A743 or A351, or A744 which is UL Classified in accordance with ANSI/NSF 61 and Annex G for potable water use up to 180°F (82°C)

Disc Encapsulation

Grade “EN” EPDM Rubber Classified in accordance with ANSI/NSF 61 and ANSI/NSF 372 for potable water use up to 180°F (82°C), or Grade “T” Nitrile

O-Rings

EPDM

Seat Material

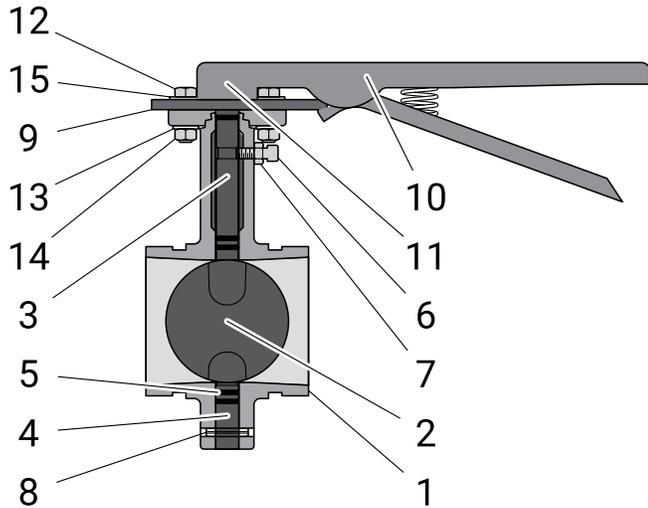
- Grade “EN” EPDM – For service temperatures from -30°F to 230°F (-34°C to 110°C). For general service. Recommended for water service, dilute acids, alkalis, oil-free air and many chemical services.
Note: Not recommended for use in petroleum services.
- Grade “T” Nitrile – For service temperatures from -20°F to 180°F (-29°C to 82°C). Recommended for petroleum products, air with oil vapors, vegetable oils, and mineral oils.
Note: Not recommended for use in hot water services.

Contact an ASC Engineered Solutions Sales Representative for specific recommendations on seat material.



PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

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Material Specifications

- 1. Body**
Stainless Steel
- 2. Disc**
Stainless Steel
- 3. Upper Shaft**
Stainless Steel
- 4. Lower Shaft**
Stainless Steel
- 5. O-Ring**
EPDM
- 6. Hex Socket Set Screw**
Stainless Steel
- 7. Hex Nut**
Stainless Steel
- 8. Roll Pin**
Spring Steel
- 9. Throttle Plate**
Stainless Steel
- 10. Lever-Lock Handle Assembly**
Stainless Steel
- 11. Roll Pin**
Spring Steel
- 12. Hex Bolt**
Stainless Steel
- 13. Lock Washer**
Stainless Steel
- 14. Hex Nut**
Stainless Steel
- 15. Flat Washer**
Stainless Steel

B480 Shaft Size

Size	Shaft Size SJ-400 (B480)
2"	φ12.7
2½"	φ12.7
3"	φ12.7
4"	φ19.0
5"	φ19.0
6"	φ19.0
8"	φ19.0

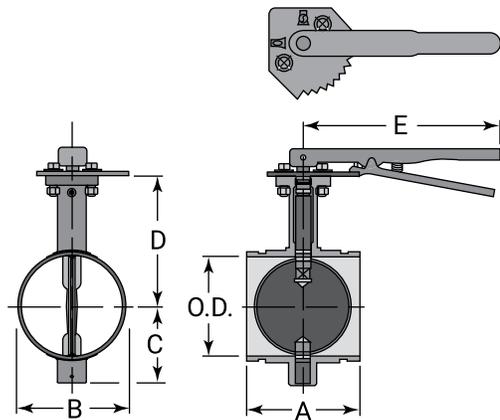
Round shaft with pin.



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Valve Size	O.D.	Operating Torque	Dimensions					Approx. Wt. Ea.
			A	B	C	D	E	
In./mm	In./mm	In.-lb./Nm	In./mm	In./mm	In./mm	In./mm	In./mm	Lbs./Kg
2	2.375	78	3.19	2.756	2.480	4.17	10.0	5.0
50	60.3	8.80	81	70	63	106	254	2,3
2½	2.875	84	3.81	3.386	2.677	4.28	10.0	7.0
65	73.0	9.50	97	86	68	111	254	3,2
76.1mm	3.000	84	3.81	3.386	2.677	4.28	10.0	7.0
65	76.1	9.50	97	86	68	111	254	3,2
3	3.500	95	3.81	3.858	2.992	4.97	10.0	6.6
80	88.9	10.7	97	98	76	126	254	3,5
4	4.500	200	4.56	4.882	3.504	5.33	10.0	11.0
100	114.3	22.6	116	124	89	135	254	5,0
165.1mm	6.500	310	5.81	7.008	4.488	6.62	10.0	20.2
150	165.1	34.9	148	178	114	168	254	9,2
6	6.625	310	5.81	7.008	4.488	7.25	10.0	20.2
150	168.3	34.9	148	178	114	184	254	9,2

These torque values were derived from test data with non-lubricated valves in water, non-pressurized at ambient temperatures

For information on alternative sizes, contact an ASC Engineered Solutions Sales Representative.

Note: The torque values are based on liquid applications. For dry or non-lubricating applications add a 25% service factor to the above values.

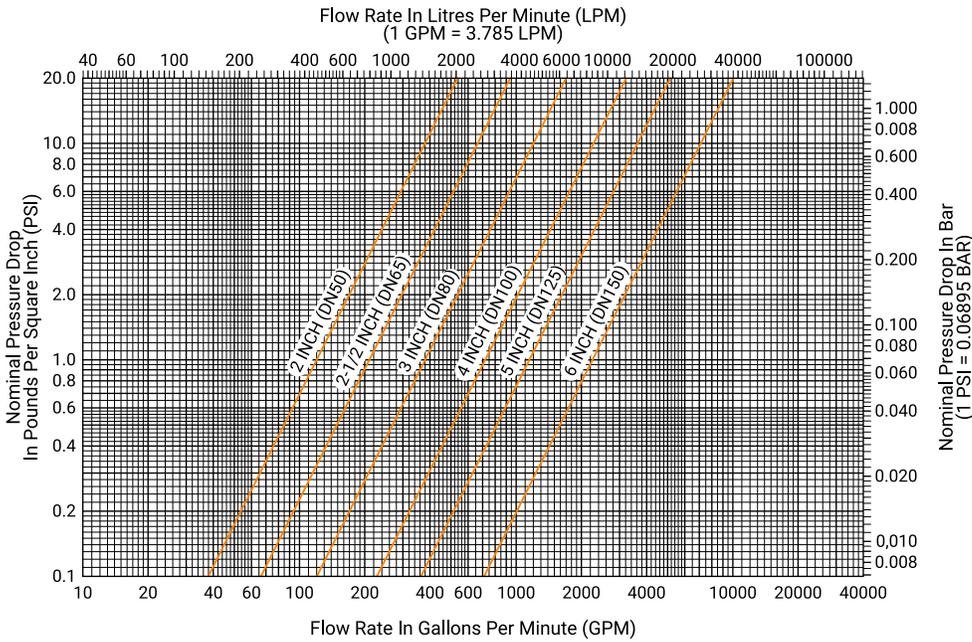


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Grooved End Stainless Steel Butterfly Valve with Lever Handle Model B480

Model B480 Grooved End Stainless Steel Butterfly Valve Nominal Pressure Loss Vs Flow



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