

VTE® - McCANNALOK HIGH PERFORMANCE BUTTERFLY VALVE RECOMMENDED SPECIFICATION SHEET



VALVE DETAILS

- > McCannalok High Performance Butterfly Valve
- > Wafer | Lug | Double Flange
- > NPS 2 to 66 | DN 50 to 1500
- > ASME Class 150, 300, 600 | PN 10, 16, 25, 40, 63, 100
- > Bray Series 40/42/44 Wafer or Series 41/43/45 Lug or Series 4A/4B Double Flanged or approved equal.

BODY

- > Shall be one-piece wafer, lug or double flanged design with extended neck to allow for 2" of piping insulation.
- > Shall be designed per ASME B16.34.
- > Flange hole drilling per international flange standard as specified.
- > Body face-to-face per:
 - API 609 Category B
 - ASME B16.10
 - EN 558
 - ISO 5752
- > Internal over-travel stop shall be provided to prevent over-travel of the disc and minimize possible seat damage.

DISC

- > Shall be a one-piece design.
- > Disc edge shall be hand polished for minimum torque and maximum sealing capability.

STEM

- > Shall be one-piece design to maximize strength.
- > Shall be blowout proof design with prevention ring located outside the pressure boundary. Design must fully conform to API 609.
- > Available in multiple materials for varying strength requirements and corrosive environments.

SEAT

- > Design shall consist of a resilient energizer totally encapsulated by the seat and isolated from all line media contact.
- > Lug style design must allow for bidirectional sealing at full rated pressure with the downstream flange removed.
- > Seat design must be pressure assisted, not pressure dependent.
- > Seat retainer shall be full-faced and firmly attached by bolts located outside the sealing area to protect them from corrosion. Uninterrupted gasket sealing surface must be maintained for the full flange face.
- > The seat assembly shall be locked in the body recess by the full-faced retainer.
- > The seat shall be self-adjusting for wear and temperature changes.
- > The seat shall provide tight shutoff after one million cycles.
- > The seat shall be easily field replaceable.

PACKING AND BEARINGS

- > Provided with top and bottom stem bearings consisting of a 316 stainless steel shell with a TFE/glass fabric liner bearing surface.
- > Equipped with an externally adjustable stem packing system that allows packing adjustment without removing the actuator.



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RECOMMENDED SPECIFICATION SHEET

APPROVALS AND CERTIFICATIONS

- > CE:
 - PED 2014/68/EU
- > Fire Tested:
 - API 607
 - ISO 10497
- > Fugitive Emissions Certification:
 - API 641
 - ISO 15848-1
 - TA-Luft VDI 2440
- > ANSI/NSF 61/372
- > SIL 3 Capable
- > ABS Type Approval
- > ATEX 2014/34/EU
- > Bureau Veritas Type Approval
- > China Classification Society (CCS) Type
- > CRN
- > DNV
- > EC1935
- > TR CU

VALVE ACTUATOR MOUNTING PAD

- > ISO 5211

TESTING

- > Manufactured, assembled, and tested in compliance with a written ISO 9001 quality assurance program.
- > API 598 High and Low Pressure Bidirectional Tests
- > EN 12266
- > ISO 5208
- > MSS SP 61

PRESSURE RATINGS

- > ASME Class 150 | PN 10, PN 16
 - NPS 2 to 66 | DN 50 to 1500
 - 285 psi (20 bar)
- > ASME Class 300 | PN 25, PN 40
 - NPS 2 to 54 | DN 50 to 1400
 - 740 psi (50 bar)
- > ASME Class 600 | PN 63, PN 100
 - NPS 3 to 36 | DN 80 to 900
 - 1440 psi (100 bar)

DEAD-END SERVICE (LUG BODY ONLY WITH DOWNSTREAM FLANGE REMOVED)

- > ASME Class 150 | PN 10, PN 16
 - NPS 2 to 66 | DN 50 to 1500
 - 285 psi (20 bar)
- > ASME Class 300 | PN 25, PN 40
 - NPS 2 to 54 | DN 50 to 1400
 - 740 psi (50 bar)
- > ASME Class 600 | PN 63, PN 100
 - NPS 3 to 36 | DN 80 to 900
 - 1440 psi (100 bar)

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