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Flanged PFA Liner Butterfly Valve

Flanged type PFA PTFE liner butterfly valves designed to overcome some of the issues in reduced bore piping. The wider body allows more clearance for the disc to open avoiding contact with the mating piping, negating the need for special spacers.

Flanged PFA PTFE Liner Butterfly Valve

Size: 1.5" – 24" (DN40-600)

Pressure: PN10/16, Class 150, JIS10K

Body Material: ASTM A216 WCB, A351 CF8/CF8M

Seat: PTFE or TFM or PFA

Disc Material: Stainless Steel By Mirror Polish or Stainless Steel Coated PFA

(Above DN300 Coated by PFA, or FEP material also is available)

End Connection Standards: EN, JIS, DIN, API all are available

Available body material: Carbon steel, Duplex Stainless steel

Available design standard: API609, JIS B2032, DIN EN1092



Flanged PTFE Seated Butterfly Valve

When piping is supplied lined with heavy wall liners for vacuum resistance the bore of the pipe can be reduced sufficiently that if a butterfly valve is fitted the leading edge of the disc can interfere when opening with the bore of the piping. This has been overcome in the past by fitting larger bore spacer rings each side of the valve to allow the disc to clear. These are considered an additional leak path and add cost to the valve installation. Typically MVI supplied with a carbon steel body with PTFE liner, with the disc being WCB encapsulated in PTFE or PFA. With all wetted parts PTFE / PFA the valve can be used in highly corrosive applications and is ideally suited to our lined piping systems. The valve can also be supplied with stainless steel body for clean room applications or for use in strong corrosive environments. The disc can be supplied in unlined stainless steel, titanium alloys and with PFA or TFM liners.

Technical Specification

- Design: ISO5752/20
- Wafer End Connection: EN1092-1 PN10/16, ASME B16.5 Class 150, JIS B 2220 JIS10K, Raised Face
- Face to face: EN558-1, DIN3202, ASME B16.10
- Top Flange: EN ISO5211
- Inspection and Testing: API 598, GB/T13927

Stainless Steel With PTFE liner For Clean Room Application

Product Description:

MVI Flanged type butterfly valve can be supplied bare stem, with a 10 position locking lever or with an enclosed gearbox, of course we are able to supply the valve complete with an actuator. The valve has 3 separate stem seals preventing any fugitive emissions. The PTFE body liner is machined from a single PTFE billet to maintain total integrity. Behind the PTFE liner a Silicon or Viton energiser acts on the PTFE body live loading the body seal against the PFA/PTFE disc to give positive bubble tight shut off.

1. Design in split Type body, the parts of the valve can be disassembled, material-specific recycling possible
2. Maintenance-free, the valve can be installed in any desired position
3. ISO 5211 mounting pad for easy and quick actuator installation
4. Positioning holes keep valve in the center between pipe flanges and also applied to many international standards.
5. Three different sealings ensure the lined butterfly valve in high performance.
6. Three self-lubricating sleeves could keep stem not be deformed under pressing.
7. When the four Belleville Spring under pressing, it will make sealing among the gland, the seat and the disc edge more tightness
8. Epoxy coating with baked finishing before valve assembly, keep inner body can't be rust.

PFA Fully Coated For High Permeation Media

Media temperature:

-20°C to 200°C (depending on operation the pressure and the fluoroplastic material)

Operating pressure:

max. 10 bar (16 bar or 20bar for spec. version)

Vacuum Application:

up to 1 mbar absolute (with silicon elastomer inserts) from -10°C to +160°C

Operator manner:

Hand lever, Worm gear, pneumatic actuator, electric actuator, hydraulic drive

GENERAL APPLICATIONS

1. Chemically highly corrosive and toxic media
2. Purification plants
3. Pharmaceutical Industry
4. Adhesives, Paper Industry, Fuel Transport
5. Paint manufacture and processing
6. Food Industry
7. Transport of hazardous materials
8. Wet chloric gas
9. Conditioning of materials, e.g. galvanizing and pickling
10. Processing of ore
11. Fuel transport and storage

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