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PFA Lined Ball Valve



MVI PFA Lined full bore ball valve is widely used throughout the world in harsh chemical and pharmaceutical plants, utilizing a full port design minimizes pressure losses and increases flow capacities.

Technical Specification

- Design Standards: DIN 3357
 - Flange Ends: DIN 2532 PN10/16, ASME B16.5, Class 150, Raised Face
 - Face to face: DIN 3202, ASME B16.10
 - Inspection and Testing: DIN 12569, API 598
- Size Range: DN15-300 (1/2"-12")
 - Body Material: ASTM A216 WCB, A351 CF8/CF8M
 - Lining Material: PFA (or FEP material also is available)
 - Temperature Range: -20°C to 200°C (Depending on working conditions and Fluoroplastic material)
 - Working Pressure: -0.1mbar~16bar
 - All the lined valves should be done 14kv spark test

Full Bore PFA Liner Pneumatic Ball Valve

The MVI full bore PFA liner ball valves are ideally suited for strongly corrosive applications, requiring reliable performance, tight shut-off, and constant torque.

Normally the ASTM A216 WCB body with full lining PFA fluoropolymer. Minimum thickness of PFA lining around of 3mm. For some chemicals not so aggressive, the FEP grade fluoroplastic material also is available for economic choice.

T Slots Machined For Lining PFA

T slots machined in to the cast body ensure the PFA liner is secured making it suitable for operation in vacuum conditions. Stainless steel fasteners ensure long term protection from external corrosion.

Product Features:

1. One-piece ball/stem designed *PFA lined ball valve*, this design is good for avoiding weak stem to ball.
2. The body inside and the ball full lined by PFA with Locked-In designing by dovetail groove to avoid negative pressure.
3. ISO 5211 mounting pad easy for actuator connecting.
4. Stainless steel lever with lockable design
5. Maintenance free

The whole range has PFA fluoropolymer liners for use in highly corrosive processes and the most demanding applications. Whilst these valves still have all wetted parts in PFA to ensure compatibility with nearly all chemicals and all of the product features of the standard valve they have additional features to suit particular processes.

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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