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PFA Lined Diaphragm Valve

MVI PFA Liner weir type diaphragm valve having rugged design to incorporating the best material available is proved by easy, smooth and maintenance free operation for a long time.

Technical Specifications:

- Size range: 1/2"-12"(DN15-300)
- Working pressure range: 10Bar (Max)
- Body Material: ASTM A216 WCB, A351 CF8/CF8M
- Seat: PFA (or FEP material also is available)
- Membrane Material: EPDM with PFA or PTFE or FEP
- Temperature range: -20°C-200°C(depending on the fluoroplastic material)
- Flange Ends: DIN2532, ASME B16.5 (or customized)
- All the lined valves should be done 14kv spark test



PFA Fluoropolymer Liner Of The Diaphragm Valve

MVI weir type diaphragm valve having rugged design to incorporating the best material available is proved by easy, smooth and maintenance free operation for a long time. Extra heavy-duty casting affords high resistance to atmospheric corrosion. MVI diaphragm valve reduces diaphragm travel for extended service and fine control. A wide choice is available for body materials, the linings, types of operation and the end connections to satisfy of the most industrial applications. High quality standards are strictly maintained each valve being checked for size, design pressure, operation MOC, finish etc.

Internal Structure Of The Lining Diaphragm Valve

Normally the ASTM A216 WCB body with full lining PFA fluoroplastics. 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.

Due to the diaphragm depart up and down the bodies, this design will let the body and stem not contact aggressive medium to avoid corrosive problem.

Product Features:

- 01) Packing-less / Glandless Design Eliminates emission control problems
- 02) Isolating PFA/FEP/PTFE diaphragm prevents corrosive or abrasive attack on the operating mechanism by media.
- 03) Low Flow Resistance
- 04) Acid and Alkali resistant
- 05) Variable flow direction and installation position
- 06) Thick-Walled Fluoroplastic Lined of the valve body provides high permeation resistance, Vacuum-proof anchored and is almost translucent, thus optimum quality of lining is assured.

Pneumatic Actuated PFA Liner Diaphragm Valves For Fluid Control

Meantime the weir type lined diaphragm valve with pneumatic actuators could be used for control and regulating the rate of the flow in the pipeline.

MVI mini type piston pneumatic control valve combined, or multi spring film type pneumatic actuator is available. PFA lined diaphragm valve with pneumatic actuator, this kind valve was operated by compress air to control medium through the pipeline.

Lined Diaphragm Valve With Mini Type Piston Pneumatic Control

Due to this diaphragm valve was lined by PFA inside, it can be widely used for strong acid, alkali and some severe application.

General Applications:

1. Chemically highly corrosive and toxic media
2. Purification plants
3. Pharmaceutical Industry
4. Food Industry
5. Transport of hazardous materials
6. Wet chloric gas
7. Fuel transport and storage

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