TANK BOTTOM VALVE

• The tank bottom diaphragm valve is designed for use at the bottom of a tank or vessel to drain or sample while minimizing the interior sump and preventing any dead leg for bacteria or microorganism entrapment.

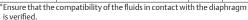


| General Valve Information | | |
|---------------------------|--|--|
| Size range | DN 15 to DN 100 | |
| Operating mode | Normally close, normally open, double acting | |
| Topworks | Manual operating, pressure operated | |
| Max. service pressure | 10,34 bar | |
| Max. service temperature | +149°C | |
| Min. service temperature | EPDM diaphragm: -30°C; PTFE diaphragm: -20°C | |

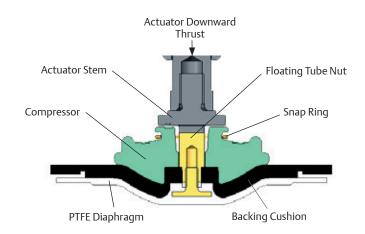


Patent # 5,227,401

| Diaphragm material compatibility * | | | | | |
|------------------------------------|---------------------------------|----------|------|--|--|
| Applications | | Material | | | |
| | | EPDM | PTFE | | |
| Passivation | Nitric Acid 15% (1) | U | R | | |
| | Phosphoric 10% (1) | R | R | | |
| | Citric Acid 15% (1) | R | R | | |
| | Mixed Chelants (2) | R | R | | |
| Cleaning (5) | Sodium Hydroxide | R | R | | |
| | Sodium Hypochlorite | R | R | | |
| | Potassium Hydroxide | R | R | | |
| | Phosphoric Acid | R | R | | |
| | Hydrogen Peroxide | R | R | | |
| Sterilization | Saturated Steam 1,4 bar (126°C) | R (3) | R | | |
| | Saturated Steam 2,1 bar (135°C) | R (3) | R | | |
| | Saturated Steam 2,8 bar (142°C) | R (3) | R | | |
| | Dry Heat (165°C) | U | R | | |
| | Ozone (4) | R | R | | |



- (1) At 60°C (2) Ammonium citrate base at 80°C
- (3) Limited life and undesirable failure mode (4) 3% at 27°C
- (5) Consult factory for specific temperature and concentration limitations.
- U = Unsatisfactory



Diaphragm certifications

- European Union Pressure Equipment directive 2014/68/EU
- FDA compliant
- 21CFR177.2600 Elastomers
- 21CFR177.1550 PTFE
- All diaphragms are available with USP class VI certificate of Conformance
- Chapter 87 In-Vitro
- Certificate of compliance to EMEA/410/01 "Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products" available on demand.
- Certificate of traceability to EN 10204 3.1 B available upon request.









青岛秉诚自动化设备有限公司

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ASCO™ ASEPTIC VALVES

Surface finish

Valve bodies are available in a complete range of mechanically or electropolished surface finishes to satisfy system design requirements.

Electropolishing is the electromechanical method of removing metal from the surface. This surface finishing improves corrosion resistance, removes inclusions and improves the overall surface for cleaning

| Mechanical Polish | EU Service Micron Max. |
|-------------------|--|
| | §No Mechanical Polish§ |
| | 0.8Ra |
| | 0.6Ra |
| | 0.5Ra |
| | 0.38Ra |
| | 0.28Ra |
| | 0.25Ra |
| Electropolish | No Electropolish |
| | Both Interior and Exterior Electropolish |

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