

Mix Proof Valves for Pharma/Bio-Tech



Product Features

Today's production processes demand parallel operation of product and cleaning cycles in order to maximize plant utilization and optimize the economy of operation in complex plants. Norit Südmo's Mix Proof Valves offer pharma/bio-tech processors the ability to establish automated multiple routings with complete assurance that all process and cleaning liquids remain separated.

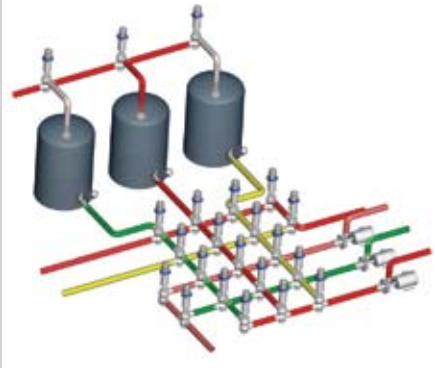
Norit Südmo offers the most rugged Mix Proof Valve in the pharma/bio-tech industry due to the fact that the valve housing is machined from a solid bar of stainless steel, thereby increasing the structural integrity of the valve body. Norit Südmo's Mix Proof Valves are highly resistant to aggressive media and offer seal material options as well as high grade alloy's such as AL6XN and Hastelloy. The easy to maintain valves are supplied with all necessary material tracing and are balanced to withstand pressure shocks.

Mix proof valve arrays are fully automated, enclosed systems which help reduce labor costs and operator errors. Because the arrays are assembled and pre-tested at the factory, customers benefit from quicker start up and easier commissioning. Arrays can also be designed for future expansion.

Norit Südmo's innovation of a leak-free design, balanced stems, integral seat lifting, and machined pocket-free valve bodies enhance our Mix Proof Valve over competitive products ensuring maximum hygiene. Backed by Norit Südmo's proven technology, unparalleled customer service and extensive application know-how, you are assured that by using Norit Südmo's Mix Proof Valves you will maximize the use of your plant's assets.



Mix Proof Valves for Pharma/Bio-Tech



Benefits

- Enhanced sealing design compensates for seal swelling assuring longer seal life
- Completely balanced upper and lower seats assures operations up to 145 psi
- Minimized actuator size reduces valve size and weight
- Fully sealed actuator minimizes actuator maintenance
- Fixed seat lift travel assures proper cleaning and minimizes loss of cleaning solution
- Superior CV's
- 5-year prorated actuator warranty
- Compact design - replaces three diaphragm valves
- Complete package with material certifications
- Valves have EHEDG certificates for cleanability
- SS tube and ferrule conform to ASTM A270 and S2 Pharmaceutical quality supplementary requirements

Applications

- CIP units to protect multi-circuit systems
- Ring systems for CIP supply and return to process units
- Sanitary water delivery
- Ingredient supply and distribution systems (i.e. buffer solutions)
- Fermentation vessel line protection

Standard Specifications

Materials

- Product contact: 316L (1.4404)
 - Non-product contact: 304 (1.4301)
 - Optional: Hastelloy, AL6XN
- AL6XN conforms to ASTM B676 and S2
Pharmaceutical quality supplementary requirements

Seals

- Standard: EPDM
- Optional: HNBR, FPM (Fluoro-Rubber),
FFPM (Perfluorinated Fluoro-Rubber)

Operating Pressure

- Control air pressure: Standard 87-116 psi
- Product pressure: Standard 87 psi

Operating Temperatures for EPDM Seals

- 266 °F continuous
- 300 °F short sterilization (15-20 minutes)

Connections

- Standard: Sanitary O.D. tube butt weld
 - Optional: Sanitary O.D. tube clamp
- Autoweld and buttweld ends meet ASME BPE-1997, for OD variation, ovality and wall thickness

Finish

- Mechanical polish for internal finish
- Standard: Ra \geq 32 μ m (0.8 μ m)
- Improved to: Ra \geq 15 μ m (0.4 μ m)
per customer requirements
- Mechanical polish for external surfaces
- Standard: Ra \geq 63 μ m (1.6 μ m)

Options

- Exotic alloys and seal materials
- Sterilization chamber
- Mix match body sizes
- Control top: 24VDC, 110VAC, ASI, DeviceNet

Südmo North America, Inc. reserves the right to make changes in the technical specifications at any time.



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