

P³ Aseptic Valve



Challenge

Aseptic processing is being applied in an increasing number of industries to help extend product shelf life and to protect the integrity of sensitive products. The benefits make this style of manufacturing more desirable, but the challenges can be difficult to overcome in real world manufacturing facilities. Moving parts, such as rising stem valves, are the critical components to consider in aseptic production systems as they offer an opportunity for bacteria and other contaminants to enter the product stream, which can have detrimental effects on the quality of the finished product. A loss of system integrity in an aseptic process system results in increased downtime, rework or loss of the product batch, increased maintenance costs, reduced shelf life, reduced plant efficiency, and reduced profits for your company.

Solution

Norit Südmo's revolutionary **P³** material was designed to eliminate the problems associated with traditional aseptic rising stem valves. Resistant to high temperatures, up to 320° F, and aggressive chemicals, **P³** ensures longer service life. When system design is taken into consideration, customers who have retro-fitted this material into their valves have experienced significantly extended service life and greatly reduced maintenance.

P³ has excellent cleaning properties and outstanding performance even under the most difficult operating conditions, ensuring that the system remains sterile. Combining **P³** with a PEEK valve seal ensures that the total valve is resistant to high temperatures and aggressive chemicals. **P³** is available in the SVP Select Valve series.

With our vast knowledge of aseptic systems we can review your process and recommend how to apply this technology so that you can increase production and reduce the cost of valve ownership. Now is the time to take advantage of this groundbreaking material and start reaping the benefits from reduced plant downtime and longer maintenance intervals.

P³ Aseptic Valve



Benefits

- Extended performance and durability
 - Temperatures - up to 320°F
 - Pressure - stable under continuous pressure up to 145 psi and pressure shocks up to 290 psi
 - Chemicals - highly resistant to aggressive chemicals
- PEEK valve seal for long life
- Excellent cleanability
- Longer maintenance intervals reduces downtime and increases productivity and efficiency
- FDA compliant

Applications

- Extended shelf life (ESL) products
- Ultra high temperature (UHT) processes
- Aseptic buffering
- Crystallized whey

Standard Specifications

Operating Pressures

- Continuous pressure up to 145 psi
- Pressure shocks up to 290 psi

Operating Temperatures

- 320°F max. for short sterilization
- 302°F (160°C) max. continuous

Options

- PEEK seat
- AVU Monitoring System

Südmo North America, Inc.

1330 Anvil Drive, Rockford, IL 61115 USA

T 815.639.0322 • F 815.639.1135

E info@sudmona.com • I www.sudmona.com

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

P3-0901