

# **P<sup>3</sup>** 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 associated with this specialized procedure 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 from the external environment, 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 complete 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 **P<sup>3</sup>** material was designed to eliminate the problems associated with traditional aseptic rising stem valves. Our **P<sup>3</sup>** material is resistant to high temperatures, up to 320° F, and aggressive chemicals, and ensures longer service life. Customers who have retro-fitted this material into their systems have experienced significantly extended service life and reduced maintenance when combined with a properly designed process system.

**P<sup>3</sup>** has excellent cleaning properties and outstanding performance even under the most difficult operating conditions, ensuring that the system remains sterile. Combining **P<sup>3</sup>** with a PEEK valve seal ensures that the total valve is resistant to high temperatures and aggressive chemicals.

**P<sup>3</sup>** is available in the SVP Select Valve series and as a kit that is 100% retro-fittable on existing Norit Südmo valves. Now is the time to take advantage of this groundbreaking material and start reaping the benefits from reduced plant downtime and longer maintenance intervals.

# P<sup>3</sup>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 approved

## Applications

- Extended shelf life (ESL) products
- Ultra high temperature processes

## 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

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