

DOUBLE SEAT VALVE 365it COMPLETE PMO

Part of the Pentair SÜDMO Double Seat Valves Complete Series

The Challenge

Dairy processors face the challenge of achieving high purity levels and handling diverse product streams while minimizing product loss and increasing sustainably. They must ensure high-quality products are produced that can be safely consumed by customers. How can the dairy industry overcome these obstacles?

The Unique Solution

The Pentair SÜDMO Double Seat Valve 365it Complete PMO provides dairy processors with a unique solution; a mix proof valve that packs superior process safety and efficiency alongside a more intelligent operation due to its Pentair patented* deflector.

Innovative Sealing

The patented deflector provides a dependable physical barrier preventing direct impingement of CIP solution on the opposite seat during CIP seat lifting processes.



To keep your products and process safe, the Pentair SÜDMO Double Seat Valve 365it Complete PMO uses a reliable mechanical barrier. It does not rely on inline pressures and contours.

More to Say Than Just 'I am open'

Mix proof valves need feedback to meet PMO requirements. The Pentair SÜDMO 365it Complete PMO in combination with our **Pentair SÜDMO IntelliTop™ 2.0** ensures safe processing through the monitoring and control of all valve seats and positions.

Benefits

- Leakage-free product switching
- Dependable mechanical barrier prevents contamination
- Fulfills safety regulations: Pasteurized Milk Ordinance and 3-A 85-03
- Compact design enhances maintenance and reduces required footprint
- Balanced upper and lower seats ensure operations up to 145 psi
- Minimized actuator size reduces valve size and weight
- Fully sealed actuator minimizes actuator maintenance

Features

- 5-year prorated actuator warranty (USA only)
- Three-seat valve (deflector)
- Defined seat lift positions
- In seat area
 - Closing sleeve with conical seal O-ring
 - Radial seat with RSC seal (Radial Seal Complete)
- In shaft area
 - Sealing by form-fit profile seal



* US patented deflector

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How it Works

Scenario 1: The valve is closed. Two different media are mix proof separated.

Scenario 2: The valve is open. The product can run between two lines.

Scenario 3: Seat lift of lower valve disc. CIP in the lower line is cleaning the entire line including the seat area of valve and lower valve stem. The product represented in green (above the lower line) is mix proof separated in the upper line.

Scenario 4: Seat lift of upper valve disc. CIP in the upper line is cleaning the entire line. The product represented in green passes through its line as it is mix proof separated in the lower line.

Applications

Pentair Südmo Double Seat Valves 365it Complete PMO are suitable for mix proof applications requiring high standards in dairy processing, such as cheese and curd processing. Suitable for use in:

- Raw receiving
- Raw tank storage
- HTST supply and discharge lines
- Pasteurized tank storage
- Filler supply lines
- Batching systems

Tank Outlet and Cheese Curd Application

An alternative version of our PMO valve is the 365it Complete Cheese Curd Outlet PMO Mix Proof Valve. Its large open cross-section allows particles of up to approximately 1.5 inches to pass unobstructed through the valve.

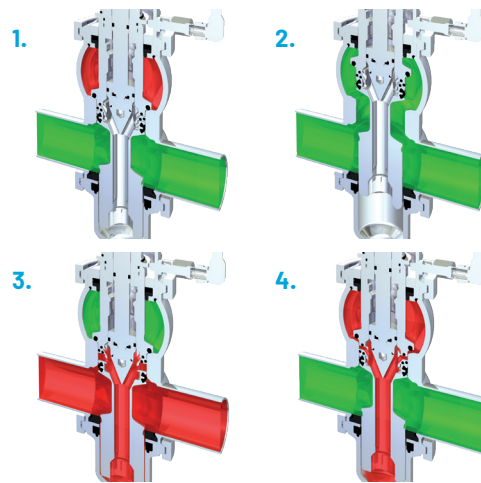
The Tank Outlet is uniquely designed for direct integration into the tank. Designed with no dead zones allows for optimum tank cleaning. Vertical and horizontal installations are available of the tank outlet.

Let's work together to secure a sustainable future for both you and our environment. Insist on Pentair.

Find out more at foodandbeverage.pentair.com



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Specifications

Materials

- Product contact: 316L (1.4404)
- Non-product contact: 304 (1.4301)
- Optional: AL6XN

Seals

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

Operating Pressure

- Control air pressure: Standard 87-116 psi
- Product pressure: Standard 145 psi

Operating Temperatures for EPDM Seals

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

Connections

- Standard: Sanitary OD tube butt weld
- Optional: Sanitary OD tube clamp

Finish - Standard

- ≤32 Ra product contact
- ≤63 Ra non-product contact

Standard PMO Features

- External prox for upper stem detection
- Lower stem cleaning chamber
- Prepared with IntelliTop 2.0 (24VDC, 110VAC, Asi, DeviceNet™ or IO Link interfaces available)

Options

- Improved mechanical polish or electropolish
- Mix match body sizes 1.5"-6"

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