

# Cheese Curd Outlet PMO Mix Proof Valve



## Challenge

When curd is transferred through pipework, it must be handled gently to ensure minimal shear to the fragile curd. In the past, to achieve gentle handling, large throat valves, such as long stroke single seat valves, were used to route curd from the vats. However, this required complicated valving arrangements in order to provide safe separation of CIP fluid and product, particularly on the vats from curd and pre-draw lines. To ensure full cleaning under this old method, a burst rinse was sometimes used to back flush pipework from the curd or pre-draw line into the vat. This was an inefficient and complicated method of cleaning this section of pipework, and prevented vat filling until all line CIP's were completed, resulting in increased cleaning times and decreased plant efficiency.

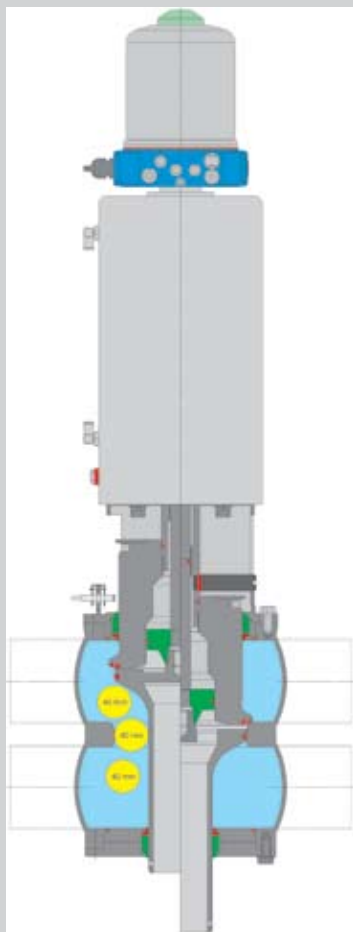
## Solution

The large open throat of the Norit Südmo Cheese Curd Outlet PMO Mix Proof Valve provides gentle handling of the curd, and allows particles of up to approximately 1.75 inches to pass unobstructed through the valve. Unlike traditional Mix Proof valves, the Cheese Curd Outlet Valve is specially designed for the United States cheese market with a larger than normal double seat valve leak detect port. The use of Mix Proof technology ensures safe separation of incompatible fluid media. Independent seat lifting allows seat cleaning with the corresponding line to ensure all product contact surfaces are 100% cleaned.

As the inventor of the Cheese Curd Outlet Valve, Norit Südmo not only has the technology, but we've had the time and experience to perfect it.



# Cheese Curd Outlet PMO Mix Proof Valve



## Benefits

- Automation of cheese discharge from vat
- Gentle handling of curd due to large open throat allowing particles of up to 1.75 inches to flow unobstructed through the valve
- Significant reduction in number of valves and associated automation around vat
- Allows full independent cleaning of vat, curd line and pre-draw line providing more efficient utilization of capital equipment
- 5-year prorated actuator warranty
- Norit Südmo introduced this valve in 1999
- Proven track record
- O-rings (not V-rings) require no special tools for seal insertion

## Standard Specifications

### Materials

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

### Seals

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

### Operating Pressure

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

### Connections

- Standard: Sanitary O.D. tube butt weld
- Optional: Sanitary O.D. tube clamp
  - Welding ends for metric tubes
  - Welding ends for ISO tubes
  - DIN nut

### Finish

- $\leq 32$  Ra product contact
- $\leq 63$  Ra non-product contact

## Options

- Improved mechanical polish/electropolish
- Control top
- Sterilization chamber
- Mix match body
- 3.1B material certification

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



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