

# PMO Mix Proof Tank Outlet Valve



## Challenge

Due to stringent PMO regulations, dairy plant operators face many obstacles that have an impact on plant efficiency. One example of this is the fact that they are not permitted to clean the line from the tank outlet to the valve manifold when there is product in the tank. The inability to clean the tank outlet line means there is a possibility of contaminating the product in the tank when it is discharged from the tank to the distribution manifold. Traditional Mix Proof valve technology eliminated swing panels but did not address this particular cleaning problem.

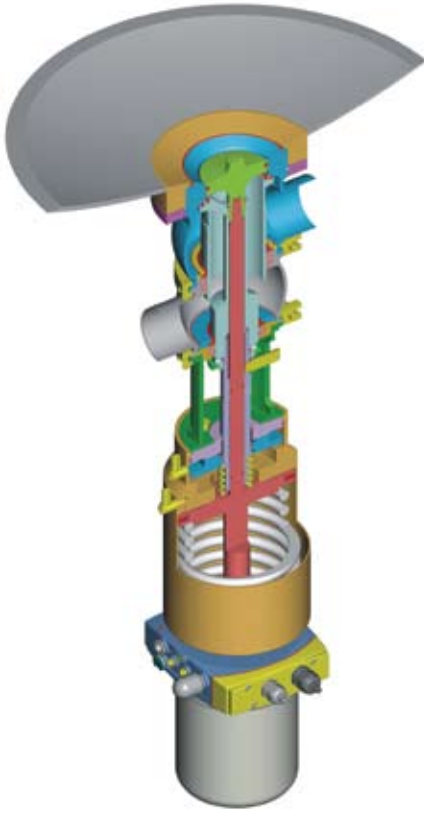
## Solution

Norit Südmo's PMO Mix Proof Tank Outlet Valve solves this problem. This valve is designed to be installed, pocket-free, directly on the tank outlet. The double seat design of the PMO Tank Outlet Valve ensures that there is no possibility of cleaning solution contaminating the product in the vessel. This means dairy processors can now safely clean the line from the tank to the manifold while product is in the tank, and ensures that when the product is transferred out of the tank it will pass through a clean line thereby reducing the possibility of product contamination.

Due to the patented design of Norit Südmo's PMO Mix Proof Tank Outlet Valve the leak detect chamber is 100% drainable. This valve is also available in a tangential option which, when mounted horizontally, means there is no sump in the valve housing where product or CIP fluid can gather, allowing full drainability of the valve. This valve can be retro-fitted into existing installations, including those with low outlets.

If you are looking for a simple solution to the valving and piping on tanks, and a safe, cost-effective and time-efficient way to clean tank outlet lines, then look no further than Norit Südmo's PMO Mix Proof Tank Outlet Valve.

# PMO Mix Proof Tank Outlet Valve



## Benefits

- Ability to clean fill/empty line with product in the tank
- Replaces manual connections
- Faster product changeovers
- Body machined from a solid piece of bar stock
- Reduces space requirements
- Tangential design is drainable in any position
- Reduces cost of installation
- Works great on existing tanks with low outlets
- Increases plant efficiency
- Leakage chamber is 100% drainable

## Applications

All dairy vessels requiring the outlet line to be cleaned separately from the tank or while product is present in the tank:

- Raw silos
- Pasteurized silos
- Batching tanks
- Pre-draw line
- Milk fill on cheese vat

## 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), FFPM (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

- <= 32 Ra product contact
- <= 63 Ra non-product contact

## Options

- Improved mechanical polish/electropolish
- Control top
- Sterilization chamber
- Tangential housing
- 3.1B material certification

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



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