

# DSV Complete



## Product Features

Today's production processes demand parallel operation of product and cleaning cycles in order to maximize plant utilization and optimize the operation of complex process plants. Norit Südmo's DSV Complete Series of Mix Proof Valves gives hygienic and aseptic processors the ability to establish automated multiple routings with complete confidence. Mix proof technology guarantees that all process and cleaning liquids in complex routing systems remain separated.

The function and value of Norit Südmo's DSV Complete Series becomes apparent when applied to the simultaneous filling, emptying and cleaning of storage vessels. A matrix can be used to set up automatic routings from a number of vessels to multiple destinations by passing liquids through both upper and lower ports of individual valves in a valve matrix. The double seat arrangement of Mix Proof Valves ensures this is achieved without danger of cross-contamination. The space between the seats is open to the atmosphere which, in the event of seal failure, establishes a safe flow to the atmosphere.

The Norit Südmo DSV Complete Series for the safe separation of incompatible media is well established in the food, beverage and pharmaceutical industries. Our Mix Proof Valve is machined from a solid bar of stainless steel, which minimizes the number of welds on each valve. Norit Südmo's Mix Proof Valves are highly resistant to aggressive media and offer enhanced seal material options and designs that are suitable for a variety of applications. The valves are balanced to withstand pressure shocks and operate at high pressures, and are easy to maintain. In addition, the redesigned actuator reduces maintenance and improves safety.

Backed by Norit Südmo's proven technology, unparalleled customer service and extensive application know-how, you are assured that by using Norit Südmo Mix Proof Valves you will maximize the use of your plant's assets.



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## Benefits

- Enhanced sealing design compensates for seal swelling assuring longer seal life
- Completely balanced upper and lower seats assures operations up to 145 psi
- Minimized actuator size reduces valve size and weight
- Fully sealed actuator minimizes actuator maintenance
- Fixed seat lift travel assures proper cleaning and minimizes loss of cleaning solution
- Superior CV's
- 5-year limited actuator warranty
- Body machined from a solid piece of bar stock

## Applications

- Safe separation of process lines for product safety due to allergens, incompatible products and CIP chemicals
- Batching
- Fillers/headers
- CIP distribution manifolds

## 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), FFKM (Perfluorinated 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 O.D. tube butt weld
- Optional: Sanitary O.D. tube clamp

All connection types are also available in metric, ISO and Schedule 5 dimensions

### Finish - Standard

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

## Options

- Aseptic version
- Improved mechanical polish or electropolish
- External stem clean/drainage cap with hose connection
- Sterilization chamber
- Mix match body sizes
- Control tops: 24VDC, 110VAC, ASI, DeviceNet™

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



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