

# SÜDMO DSV COMPLETE DOUBLE SEAT VALVES

## PRODUCT INFORMATION

Today's production processes demand parallel operation of product and cleaning cycles in order to optimize the economy of operation of complex plants. Pentair Südmö's mix proof DSV Complete double seat valves offer hygienic and aseptic processors the ability to establish automated multiple routings with complete confidence.

Mix proof technology ensures that all process and cleaning liquids in complex routing systems remain separated. These second generation double seat valves feature a higher level of pressure resistance and an improved service strategy while offering maximum process reliability. They are balanced to withstand pressure shocks and are easy to maintain.

DSV Complete valves are available in a number of executions, including leakagefree or low-leakage switching valves, with or without integrated seat lifts and PMO (Pasteurized Milk Ordinance) variants with steam locks as well as Bottom Seat and Ring Main Valves complete the program.

They are the ideal choice for valve manifolds and fit perfectly the IntelliTop 2.0 control top.

## CUSTOMER BENEFITS

### INNOVATIVE SEALING CONCEPT

#### In seat area

- Step seat with conical seal o-ring
- Radial seat with RSC seal (Radial Seal Complete)

#### In shaft area

- Sealing by form-fit profile seal

### HIGH OPERATING PRESSURES

- Open, close and seal up to 10 bar (depending on type and nominal width)
- High pressure pulse resistance



Double seat valve DSV Complete D620  
with IntelliTop 2.0 process control head

### SAFE CLEANING

- Cycle stroke with defined ring gap
- Leakage chamber flushing via external connection
- Sterile chamber for shaft flushing / sterilization
- Shaft flushing of lower valve disc

### OPTIMIZED DRIVE & CONTROL CONCEPT

- Durable pneumatic seals
- Main spring chambered
- All valve positions can be monitored IntelliTop 2.0 control unit

### TOP QUALITY

- Body machined from solid bar stock
- High surface quality
- Reduced-friction surfaces on moving parts
- Design optimized for cleaning

### SERVICE

- Simple, rapid maintenance
- No special tools needed
- Easy handling thanks to compact construction
- Low maintenance costs (Opex)

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## TECHNICAL SPECIFICATIONS

### MATERIAL

#### Product wetted area

1.4404 (AISI 316L)

#### Area not product wetted

1.4301 (AISI 304) / 1.4307 (AISI 304 L)

#### Optional

Higher quality materials

#### Seals

EPDM / HNBR / FKM

### LICENCES / CERTIFICATES

EHEDG

3A Standard

PMO (Type 365it)

CRN

FDA

### OPERATING TEMPERATURES

#### for EPDM seals

130° C (266° F) continuous

150° C (300° F) short-term  
(steam sterilization)

### PRESSURES

#### Control air pressure

Standard 6 bar (87 psi) – 8 bar (116 psi)

#### Operating pressure

Standard 10 bar (145 psi)

lower operating pressures apply to the following models:

D640 5 bar (72.5 psi)

D650 5 bar (72.5 psi)

D660 5 bar (72.5 psi)

### SURFACES

#### Product wetted

Ra ≤ 0.8 µm

#### Not product wetted

Ra ≤ 1.6 µm

#### Optional

Higher quality surfaces

E-polished

### CONNECTIONS

#### Pipe dimensions in accordance with

- DIN 11850 Reihe 2 (DIN 11866 Reihe A)

- ASTM A270 (ASME BPE-2009 /  
DIN 11866 Reihe C)

- DIN EN ISO 1127 (DIN 11866 Reihe B)

MODELS	D600	D610	D620	D630	D620 S-sp	D620U	D640	D650	D660	D365it PMO
Switching with minimal product loss (low-leakage)	•	•							•	
Switching with no product loss (leak-free)			•	•	•	•	•	•		•
Leakage space cleaned during cleaning by lifting stroke function	•		•		•	•	•	•		•
Lower shaft cleaned during cleaning by lifting stroke function										•
Leakage space cleaned via external rinsing port		•		•	•					
Sterile chambers (sterilizable + rinsable) in upper and lower shaft section					•					
Axial-conical sealing O-rings in upper and lower valve disc	•	•							•	
Axial-conical sealing O-rings in upper valve disc and radial sealing RSC seal in lower valve disc			•	•	•	• (2x)	•	•		•
Single-piece housing	•	•	•	•	•		•	•	•	•



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