

SÜDMO DSV COMPLETE

DOUBLE SEAT VALVES

PRODUCT INFORMATION



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

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 leakage-free 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 ADVANTAGES

- **Innovative sealing concept**
 - Radial seat with RSC (Radial Seal Complete)
 - Shaft sealing by form fit-supported profile packing
- **High operating pressures**
 - Opening, closing and sealing against pressures of up to 10 bar
 - High puncture resistance
- **Full cleanability**
 - Lifting strokes with defined annular gap
 - Leakage space rinsed via external port
 - Upper and lower shaft rinsable / sterilizable via external port
 - Lower shaft rinsable by means of lifting stroke
- **Optimized actuation and control concept**
 - Long-lasting pneumatic seals
 - Chambered main spring
 - Monitoring of all valve positions possible with process control head
- **Highest quality**
 - Housing machined from solid material
 - High surface quality
 - Surfaces on moving parts optimized for cleaning
 - Design optimized for cleaning
- **Service**
 - Quick and easy maintenance possible without special tools
 - Ease of handling due to compact construction
 - Low maintenance costs (Opex)

SÜDMO DSV COMPLETE

DOUBLE SEAT VALVES

PRODUCT INFORMATION

TECHNICAL SPECIFICATION

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

LICENCES / CERTIFICATES

EHEDG

3A Standard

PMO (Type 365it)

CRN

FDA

USP Class VI (optional)

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)

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	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	•	•	•	•	•		•	•	•



SÜDMO COMPONENTS GMBH

INDUSTRIESTRASSE 7, 73469 RIESBÜRG GERMANY WWW.SUEDMO.DE

All Pentair trademarks and logos are owned by Pentair, Inc. All other brand or product names are trademarks or registered marks of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.

Pentair is an equal opportunity employer.

DSV E-1 /12 © 2012 Pentair, Inc. All Rights Reserved.