

SÜDMO SVP SELECT SINGLE SEAT VALVES

PRODUCT INFORMATION

The Pentair SüdmO SVP Select single seat valve series meets the highest requirements for quality, cleaning capability and easy maintenance.

The modular design ensures that the right valve can be made for any process application in the beverage, food, pharmaceutical, and cosmetics industries. Particularly in areas where aseptic valves are required, by using our P³ diaphragm we offer the best performance in regard to chemical and temperature resistance, and pressure stability.

All materials are FDA and 3-A compliant and have passed the EHEDG cleaning test. Because components are machined, higher grade alloys can also be used for the wetted components. The stems are offered with o-rings for superior sealing or PEEK for aggressive media conditions with our standard actuator.

The modular design allows for common seal dimensions and actuators for the various sizes. Because no special tools are required, maintenance of the valve is quick and easy. With the addition of Pentair SüdmO's IntelliTop™ 2.0, the valves can be operated and monitored through the control system.

CUSTOMER BENEFITS

• General advantages

- Body machined from a solid piece of bar stock
- Modular system suitable for all applications
- Good cleaning properties
- Long service life
- Field reversible actuator

• Advantages of P³ diaphragm

- High number of switching cycles
- Good CV values
- Pressure - stable under continuous pressure up to 10 bar (145 psi) and pressure shocks up to 20 bar (290 psi)
- Highly resistant to aggressive chemicals
- Resistant to temperatures up to 160 °C (320 °F)

• Advantages of PEEK seat

- Prevents product burning on the valve seat
- No additional sealing element on the valve seat
- Very good chemical resistance
- High temperature resistance



SVP Select hygienic single seat valve with profile gasket / o-ring



SVP Select aseptic single seat valve with P³ diaphragm / o-ring



SVP Select aseptic single seat valve with P³ diaphragm / PEEK

SÜDMO SVP SELECT SINGLE SEAT VALVES

TECHNICAL DATA

MATERIAL

Product contact

1.4404 (AISI 316L)

Non-product contact

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

Optional

Hastelloy, AL6XN

Seals

Standard: EPDM

Optional: HNBR, PEEK, FPM, FFPM

Diaphragm: P³

APPROVALS / CERTIFICATES

3A Standard 53-06

FDA

CRN

Gost-R

OPERATING TEMPERATURES

EPDM seals

130 °C (266 °F) continuous

150 °C (300 °F) short sterilization

PRESSURES

Control air pressure

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

With pneumatic power amplifier: 3.5 bar (51 psi)

Operating pressure

- DN 10-20 / OD 0.5-0.75 / ISO 8-15:

10 bar (145 psi)

- DN 25-100 / OD 1.0-4.0 / ISO 20-80:

6 bar (87 psi)

- DN 125-150 / OD 5.0-6.0 / ISO 100-125:

5 bar (73 psi)

FINISH

Product contact

Ra ≤ 0.8 µm

Non-product contact

Ra ≤ 1.6 µm

Optional

Improved mechanical polish/
electropolish

CONNECTIONS

Tube dimensions to

- DIN 11850 Series 2 (DIN 11866 Series A)

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

- DIN EN ISO 1127 (DIN 11866 Series B)

OPTIONS

HOUSINGS

Right angle

Double right angle

Cross

Extraction

Globe

Angle seat

Bottom seat

Changeover

ACTUATORS

Air actuators

Air-open / spring-close

Spring-open / air-close

Air-open / Air-close

Manual actuators

Hand lever

Bevel gear

VALVE INSERTS

Hygienic

Profiled gasket / O-ring

Aseptic

P³ diaphragm / O-ring (P³ diaphragm/
PEEK)

OPTIONS

3-position actuator

Air power amplifier



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