

SÜDMO SVP SELECT CONTROL VALVES

PRODUCT INFORMATION



SVP Select Control Valve
with pneumatic
SVP standard actuator



SVP Select Control Valve
with pneumatic
membrane actuator

PRODUCT INFORMATION

Pentair Südmö's SVP Select Control Valve range offers an extensive component solution for all common control processes in the beverage, food, dairy, and pharmaceutical industries.

Typical applications for control valve operation are flow rate control, dosing of liquids and gases, pressure regulation in liquid piping, split-range controls, level control in buffer tanks, and carbon dioxide dosing for beverages.

Pentair Südmö's SVP Select Control Valve offers many CV value options and both linear and equal percentage, which allows each application to be totally customized using our standard components.

Adjustment of varying process parameters can be accomplished by modifying individual parts. There is no need to replace a complete valve.

The range is supplemented with alternatives for media mixing and distribution of media. The concept combines two individual control valves into a three-way valve, which provides a space-saving and cost-effective alternative.

ADVANTAGES

- Aseptic valve option with P³ diaphragm
- Regulation with linear or equal percentage control plug (can also be exchanged for one another subsequently)
- As standard there are three different KV values available per nominal diameter (further KV values on request)
- Subsequent modification of KV values by replacing plug and seat possible (for this separable connections must be provided on all connection ports)
- Control plug with or without tight closure function (metal seat or o-ring sealing)
- High precision membrane actuator with electropneumatic position controller
- SVP standard actuator with "8692" control head (cost-effective alternative to the membrane actuator)
- "8692" control head can also be used with the optional PID-Controller in stand-alone operation e.g. in connection with a temperature or flow rate meter



P³ diaphragm

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PRODUCT LEAFLET

TECHNICAL DATA

MATERIALS

Product contact

1.4404 (AISI 316L)

Non-product contact

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

Optional

Higher quality materials

Seals

Standard: EPDM
Optional: other materials

P³ diaphragm

PEEK seat seal optional

APPROVALS / CERTIFICATES

EHEDG

3A Standard

FDA

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)

Membrane actuator 5 bar (73 psi) - 7 bar (101 psi)

Operating pressure

- DN 10-80 / OD 0.5"-3.0" / ISO 08-65:
10 bar (145 psi)

- DN 100 / OD 4.0" / ISO 80:
6 bar (87 psi)

- DN 125-150 / OD 6.0":
10 bar (145 psi)

FINISH

Product contact

Ra ≤ 0.8 µm

Non-product contact

Ra 1.6 µm

Optional

Improved mechanical polish / electropolish

CONNECTIONS

Tube dimensions

- 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 CONTROL VALVE PROGRAM SVP SELECT DN 10-100 / OD 0.5"-4.0" / ISO 08-80

HOUSINGS

Angle valve

Straight-way valve

3-way distribution valve

3-way mixing valve

ACTUATORS

Manual actuator

Pneumatic SVP standard actuator

Pneumatic membrane actuator

VALVE INSERTS

Hygienic

Profiled gasket / o-ring

Metallically sealed

Aseptic

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

P³ diaphragm / metallically sealed

MODEL RANGE EXTENSION: CONTROL VALVES SVP SELECT XL - DN 125-150 / OD 6.0"

HOUSINGS

Straight-way valve

ACTUATORS

Manual actuator

Pneumatic SVP standard actuator

Pneumatic membrane actuator

VALVE INSERTS

Hygienic

Profiled gasket / o-ring

Metallically sealed



SVP Select
Control Valve XL
with pneumatic
SVP standard actuator



SVP Select
Control Valve XL
with pneumatic
membrane actuator



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