

# SÜDMO SVP SELECT CONTROL VALVES

## 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 spacesaving and cost-effective alternative.

## CUSTOMER BENEFITS

- Aseptic valve option with P<sup>3</sup> 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 standalone operation e.g. in connection with a temperature or flow rate meter



SVP Select Control Valve with pneumatic  
SVP standard actuator



SVP Select Control Valve with pneumatic  
membrane actuator



P<sup>3</sup> diaphragm

# SÜDMO SVP SELECT CONTROL VALVES

## 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

P<sup>3</sup> 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 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 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

P<sup>3</sup> diaphragm / O-ring (P<sup>3</sup> diaphragm/

PEEK)

## 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



PENTAIR SÜDMO GMBH

INDUSTRIESTRASSE 7, 73469 RIESBÜRG, GERMANY INFO.SUEDMO@PENTAIR.COM WWW.FOODANDBEVERAGE.PENTAIR.COM

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