

# SÜDMO

## LEAKAGE BUTTERFLY VALVES

### HYGIENIC SHUT-OFF VALVES

#### PRODUCT INFORMATION

Pentair Südmö's Leakage Butterfly Valve provides safe separation of incompatible fluids in a compact design. This valve provides significant advantages over traditional block and bleed installations.

By integrating two butterfly discs and independent vent/drain valves into a common housing, the Pentair Südmö Leakage Butterfly Valve completely isolates the self draining leakage chamber with a single valve housing and actuator. This valve offers double safety in minimal space.

The mix-proof feature provides excellent process safety in applications where the separation of incompatible media, e.g. product and cleaning-in-place must be ensured. The special seal geometry with an expansion groove ensures low wear and long service life. Various -compliant seal materials are available.

No special tools are required to change the seals making the valve quick and easy to maintain.

The optional setup from our control top IntelliTop 2.0 enables beside the valve monitoring also an decentralized pneumatic actuation of the leakage butterfly valve.

#### CUSTOMER BENEFITS

- **Butterfly valve discs**

- Solid butterfly discs, 316 L stainless steel material (1.4404)
- Highly resistant to pressure shocks
- Slide bearing between valve disc shaft and housing provides lower switching friction and optimum centering

- **Butterfly valve seals**

- Special seal geometry guarantees long service life
- The seal is marked for clear identification of size and material
- All seal materials are FDA-compliant

- **Butterfly valve housing**

- Housing marked for easy identification of material, size and pressure rating
- Optional housing with acceptance test certificate to DIN EN ISO 10204 - 3.1 (APZ)



Leakage Butterfly Valves with pneumatic actuator and IntelliTop 2.0 control top (top, cut-away model) and manual handle in stainless steel (bottom, cut-away model)

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## LEAKAGE BUTTERFLY VALVES

### HYGIENIC SHUT-OFF VALVES

## TECHNICAL DATA

### MATERIAL

#### Product wetted

1.4404 (AISI 316L)

#### Not product wetted

1.4307 (AISI 304 L)

#### Seals (all with FDA approval)

Standard: EPDM

Optional: HNBR, VMQ, FKM, PTFE

### OPERATING TEMPERATURES

#### EPDM gaskets

130 °C (266 °F) continuous

140 °C (284 °F) short-term  
(steam sterilization)

### PRESSURES

#### Control air pressure

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

#### Operating pressure

EPDM, HNBR, VMQ: 10 BAR (145 PSI)

FKM, PTFE: 6 BAR (87PSI)

### SURFACES

#### Product wetted

Ra 0.8 m

#### Not product wetted

Ra 1.6 m

#### Optional

Higher grade surfaces

Electro polished

### CONNECTIONS

#### Pipe dimensions to

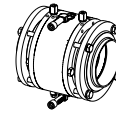
- DIN 11 850 Series 2 (DIN 11866 Series A)

- ASTM A270 (ASME BPE-2009 /

DIN 11866 Series C)

- DIN EN ISO 1127 (DIN 11866 Series B)

### AVAILABLE VALVE DESIGNS AND FEEDBACK SYSTEMS



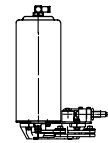
#### Body

Small flange  
DN 25-150, OD 1"-6", ISO 25-100

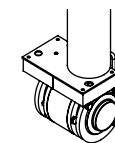


#### Actuators

Manual stainless steel handle

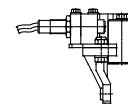


Pneumatic actuator



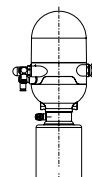
#### Safety device

Pneumatic actuator



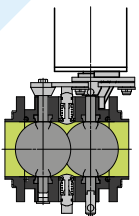
#### Feedback units

Proximity sensor bracket

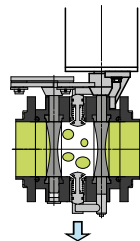


IntelliTop 2.0

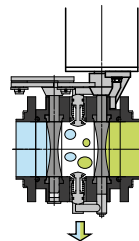
## OPERATION



- Butterfly valve open  
- Leakage space closed



- Butterfly valve closed  
- Leakage space open



- Rinsing or sterilization  
of the leakage space

= Product

= CIP Fluid



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