

SÜDMO LEAKAGE BUTTERFLY VALVES

HYGIENIC SHUT-OFF VALVES

PRODUCT INFORMATION



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)

PRODUCT INFORMATION

Pentair SüdmO'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 SüdmO 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.

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)

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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 µm

Not product wetted

Ra ≤ 1.6 µm

Optional

Higher grade surfaces

Electro polished

CONNECTIONS

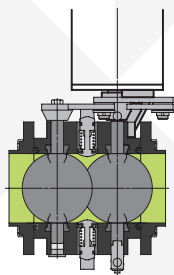
Pipe dimensions to

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

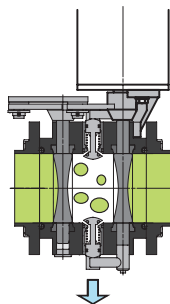
- ASTM A270 (ASME BPE-2009 / DIN 11866 Series C)

- DIN EN ISO 1127 (DIN 11866 Series B)

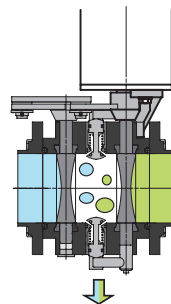
OPERATION



- Butterfly valve open
- Leakage space closed



- Butterfly valve closed
- Leakage space open



- Rinsing or sterilization of the leakage space

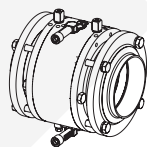


AVAILABLE VALVE DESIGNS AND FEEDBACK SYSTEMS

Body

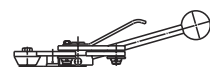
Small flange

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

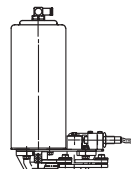


Actuators

Manual stainless steel handle

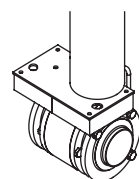


Pneumatic actuator



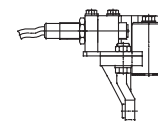
Safety device

Finger protection

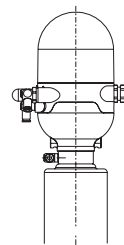


Feedback units

Proximity sensor bracket



IntelliTop 2.0



SÜDMO COMPONENTS GMBH

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