

SÜDMO LBV PERFORM Leakage Butterfly Valves

**Safe Separation of Incompatible Fluids
in a Compact Design**

CHALLENGE

Südmö LBV Perform Leakage Butterfly Valves are used when two incompatible media (product and cleaning agent) need to be safely separated. In many brewing, beverage, and food processing industries, product streams and cleaning media (CIP) run in close proximity, often in shared manifolds or panels.

The challenge lies in preventing unintentional mixing (product safety, allergen management, dilution, contamination) while simultaneously using a compact, cost-effective valve solution. LBV Perform valves are specifically designed for use in CIP supply and return lines.

They offer an economical and space-saving solution when safe separation of cleaning media is required without the need for double seat valves with even higher standards.

SOLUTION

The Südmö LBV Perform Leakage Butterfly Valves separate two different media using two independently sealing butterfly valve discs and an intermediate leakage chamber. Escaping medium can be drained into this chamber or detected in the event of a fault. This achieves leakage-monitored separation similar to double seat valves – but in a compact, cost-effective, and

APPLICATION

Südmö LBV Perform Leakage Butterfly Valves are designed for hygienic systems requiring the reliable separation of incompatible media. They are used for product/CIP separation in CIP supply and return lines, as well as in associated distribution manifolds.



**LEAKAGE
BUTTERFLY VALVE
LBV PERFORM**
with pneumatic drive
and IntelliTop 2.0
Control Head



**LEAKAGE
BUTTERFLY VALVE
LBV PERFORM**
as standard with lockable
hand lever + mounting kit
for 2 x proximity switches

BENEFITS

Enhanced process safety: Leakage outlet pipes prevent uncontrolled release of cleaning media, reducing operator risk and contamination.

Easy integration: Compatible with existing BV Perform brackets for quick installation and better spare part availability.

Improved process control: Lockable manual handle with position feedback options ensures secure operation.

Reliable monitoring: Feedback bracket provides accurate valve position for consistent system performance.

KEY FEATURES

Built-in Safety: Every valve includes a standard leakage outlet pipe to prevent uncontrolled release of cleaning media and protect operators.

Simplified Integration: Uses proven BV Perform components (e.g., mounting kits for feedback systems) for faster installation and better spare part availability.

Streamlined Maintenance: Coordinated seal kits for key wear parts, including butterfly seals, O-rings, and slide bearings, replace individual seal ordering for quicker service and reduced downtime.

SÜDMO LBV PERFORM

Leakage Butterfly Valves

TECHNICAL DATA

MATERIAL

Product contact area

- 1.4404 (AISI 316L)

Non-product-contact surfaces

- 1.4307 (AISI 304 L)

Seals

- EPDM

Compliances: FDA 21 CFR 177.2600, 3A, USP Class VI, Regulation (EC) No. 1935/2004 and GB 4806.11

Other sealing materials:

- FKM
- HNBR

OPERATING TEMPERATURES

for EPDM seals

- 130 °C (266 °F) continuous
- 150 °C (300 °F) for a short time (steam sterilization)

PRESSURES

Control air pressure

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

Operating pressure

- 10 bar (145 psi) for EPDM, HNBR

SURFACES

Product contact

- $Ra \leq 0.8 \mu m$

Non-product contact

- $Ra \leq 1.6 \mu m$

Optional

- Higher-quality surfaces

CONNECTIONS

Pipe dimensions according to

- DIN 11850 Series 2 (DIN 11866 Series A)
- ASTM A270 (ASME BPE-2009 / DIN 11866 Series C)

AVAILABLE CONNECTIONS

- Wafer Style
- 2 x Tri-clamp

AVAILABLE DRIVE VARIANTS

Manual

- Hand lever (lockable + mounting kit for 2 x proximity switches)

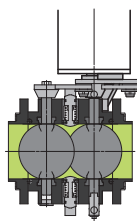
Pneumatic Actuator

- Rotary actuator with return spring (Air-opening-spring-closing)
- Rotary actuator without return spring (Air-opening-air-closing)

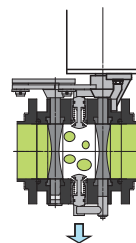
AVAILABLE FEEDBACK SYSTEMS

- Proximity Switches
- Pentair Südmö SensoTop
- Pentair Südmö IntelliTop 2.0

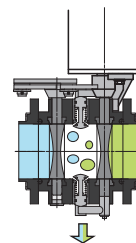
OPERATION





- Butterfly valve open
- Leakage space closed



- Butterfly valve closed
- Leakage space open



- Rinsing or sterilization of the leakage space

 = Product
 = CIP-Fluid

Find The Right Valve For Your Needs

VISIT MYSÜDMO -
THE HYGIENIC
PROCESS VALVE
CONFIGURATOR



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