

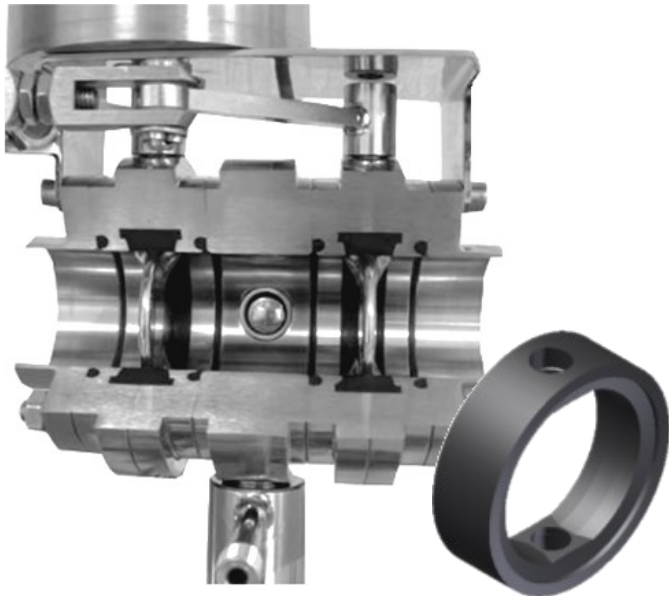
## M&S Leakage-butterfly valve type LSV07

M&S leakage-butterfly valves are used for mixing-safe shut-off of incompatible media in pipeline crosspoints. Unintentional mixing is reliably prevented, e.g. in the event of sealing defects or other faults.

The leakage-butterfly valve type LSV07 is based on the further developments of the M&S butterfly valve type SV04. The use of the optimised centre seal with the T-geometry and a compact housing design with a closed surface, as well as the use of the same accessories and spare parts, are also part of this.

Type LSV07 sectional view

Type LSV07



### Usage

### Features

### Versions

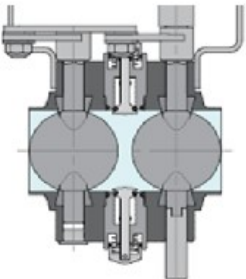
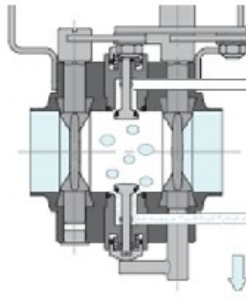
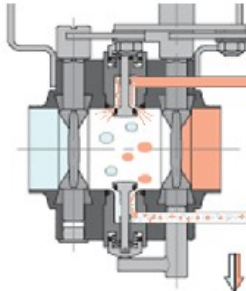
- For absolutely safe hygienic media separation, e.g. when connecting CIP-lines to the product area.
- As a cost-effective alternative to appropriately used double-seat valves.

### Usage

### Features

### Versions

- The LSV07 consists of two butterfly valves that are connected to each other via a mechanical override and are switched simultaneously. The switching can be done manually or pneumatically.  
In the basic position, the flushing and drain valves of the leakage chamber are open after closing the two flaps. The opening is carried out mechanically or pneumatically with the closing of the two flaps under forced control. Optionally, the pneumatic opening of the flushing and drain valve can also be controlled separately.
- Hygienic design, safe to operate and durable.
- Housing parts and flaps in principle made of forged primary material.
- Gaskets in principle FDA-compliant.
- Documented function test including pressure test before delivery of each individual valve.
- Marking of heat number, manufacturer and material, for seals also with date of manufacture.
- See also „special features“.

| Usage   | Features | Versions   |
|---|----------|--|
| <ul style="list-style-type: none"> <li>• Switching position leakage-butterfly valve „open“ (fig. 1)                             <ul style="list-style-type: none"> <li>* Both flaps are completely open.</li> <li>* The flush and drain valves are closed.</li> </ul> </li> <li>• Switching position leakage-butterfly valve „closed“                             <ul style="list-style-type: none"> <li>* Both flaps are closed.</li> <li>* The flush and drain valves are open.</li> <li>* The leakage chamber is emptied via the drain valve (fig. 2).</li> <li>* The leakage chamber can be cleaned via the flush valve (fig. 3).</li> <li>* The drain valve remains open when the flaps are closed. In the event of a possible leakage in one of the two flap seals, the leakage that occurs is now discharged to the outside via the drain valve.</li> </ul> </li> </ul> <p>Special features</p> <ul style="list-style-type: none"> <li>• Hygienic design                             <ul style="list-style-type: none"> <li>* Aseptic sealing contour in the outer flanges in accordance with DIN 11864.</li> <li>* Compact closed outer surface for an easy cleanable design.</li> </ul> </li> <li>• Vacuum-resistant sealing geometry.</li> <li>• Flush and drain valves open inwards.                             <ul style="list-style-type: none"> <li>* Pressure-shock-proof.</li> </ul> </li> </ul> |          |  <p>Fig. 1</p>  <p>Fig. 2</p>  <p>Fig. 3</p> |

| Usage   | Features | Versions |
|---|----------|----------|
| <ul style="list-style-type: none"> <li>• Materials                             <ul style="list-style-type: none"> <li>* Housing: 1.4301/AISI 304, 1.4404/AISI 316L, other stainless steels, titanium or hastelloy.</li> <li>* Gaskets: VMQ red (also transparent), HNBR (FDA compliant); EPDM, FKM (FDA compliant and USP class VI)</li> </ul> </li> <li>• Surfaces                             <ul style="list-style-type: none"> <li>* In contact with product <math>Ra \leq 0,8 \mu\text{m}</math>.</li> <li>* Not in contact with product <math>Ra \leq 1,6 \mu\text{m}</math>.</li> </ul> </li> <li>• Operation                             <ul style="list-style-type: none"> <li>* Pneumatic (NC, NO or DA) or manual.</li> </ul> </li> <li>• Process connections                             <ul style="list-style-type: none"> <li>* With weld ends or connecting elements from the M&amp;S portfolio.</li> </ul> </li> <li>• Sizes                             <ul style="list-style-type: none"> <li>* DN 25 - DN 150.</li> </ul> </li> <li>• Operating pressure                             <ul style="list-style-type: none"> <li>* max. 10 bar.</li> </ul> </li> <li>• Operating temperature                             <ul style="list-style-type: none"> <li>* Depending on the seal material (see data sheet of gasket qualities).</li> </ul> </li> <li>• Optional end position feedback with proximity sensors or control TOP unit.</li> </ul> |          |          |