Hygienic Shut-Off Valves
The Butterfly Valve Programme Model 2000

Südmo Butterfly Valves can be implemented in any area of the process industry. Therefore the pneumatic or manual Butterfly Valves are used in the brewery, dairy, beverage and other food-stuffs industry, as well as in the pharmaceutical, chemical and cosmetics industry.

The butterfly programme contains all common kinds of connections, e.g., welding ends, threaded or clamp connections.

Two further variants of manual actuators are available (with locking mechanism as an option) as well as pneumatic actuators in the executions "air to open/spring to close", "spring to open/air to close" and "air to open/air to close".

Generally the pneumatic butterfly valves are equipped with a feed back support for proximity switches type M12 round. Manual butterfly valves can be equipped with feed back supports easily at any time.

In addition, options like rotary angle limiters or remote control tops can easily be provided.
The Südmo Butterfly Valve Programme in Detail

Solid butterfly discs forged in high-grade stainless steel. The streamline design of the butterfly disc guarantees low flow resistance. Butterfly discs supported with slide bearings for simple installation through self-positioning. The components reduced friction gives a long operating life of the sealing. Seal geometry with expansion grooves ensures low wear and long life of seal. FDA-certificated seal materials as standard: EPDM, VMQ, FPM and HNBR are available for the complete programme. Body flanges are available with many different connection variants. Classified for the Ex-range. Please request documentation separately.

High Quality Materials for the Manufacture only

In the manufacture of Südmo valves great emphasis is set to the quality of the utilized materials. The complete range is characterised by a high variability, easy handling and all product wetted parts are made of stainless steel type 1.4404 (AISI 316L). Generally all seals are FDA-approved. Furthermore the special design minimizes the friction between valve disc and disc seal, therefore leading to low wear and tear, along with a longer life-time of the seals and longer maintenance intervals. Easy maintenance and quick change of seals without any special tools are the standard for the whole range. As well, the Südmo Butterfly Valve Programme is highly resistant to aggressiv media.
The Südmo Multi Way Butterfly Valves in Detail

Multi Way Butterfly Valves are used as a simple routing system. With a common device the two valve discs are being switched reversely. While one disc opens, the other shuts and vice versa. Due to the triple way arrangement the valve discs only allow one flow direction while the other way simultaneously is shut off.

The Südmo Leakage Butterfly Valves in Detail

Südmo leakage butterfly valves provide double safety. Two butterfly discs are parallely switched by a common device and a single actuator. Thus media that must not mix can easily be seperated from each other. In addition the tightness of the seals can be supervised by means of the leakage outlets. These two safety devices therefore provide optimum protection, e.g., in case of the seperation of CIP-media and product of highest importance.
## Technical Specification

### Materials

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<td>Parts not product wetted</td>
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### Sealing Elements

| Sealing materials (FDA-approved) | EPDM, optional: HNBR, VMQ, FPM, PTFE and other sealing materials on request |

### Temperatures

| Continuous operating temperature | 130° C (EPDM) / 265° F* |
| Sterilization temperature        | 150° C (EPDM) / 300° F* (approx. 20 min.) |

### Pressures

| Operating pressure | Standard 10 bar |
| Control air pressure | Min. 6 bar - max. 8 bar |

### Surfaces

| Product wetted surfaces | Ra ≤ 0,8 µm |
| Others | Bright-turned, Ra ≤ 1.6 µm |
| Optional | Surfaces product wetted e-polished, higher quality surfaces on request |

* Depending on operating parameters
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2) Connection according to DIN 11851
Further variants of connections on request
Butterfly Valves

Connections according to DIN 11864-1
Further variants of connections on request

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1) Connections according to DIN 11864-1
Further variants of connections on request
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Further variants of connections on request.
## Multi-Way Butterfly Valves

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Further variants of connections on request

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**Dimensions - OD-Tube**
## Leakage Butterfly Valves

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2) Connection according to DIN 11851
Further variants of connections on request
Leakage Butterfly Valves

Connection according to DIN 11864-1
Further variants of connections on request

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1) Connection according to DIN 11864-1
Further variants of connections on request
Südmo Components GmbH reserves the right to make changes in the technical specifications at any time.