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# MIXING PROOF BUTTERFLY VALVE

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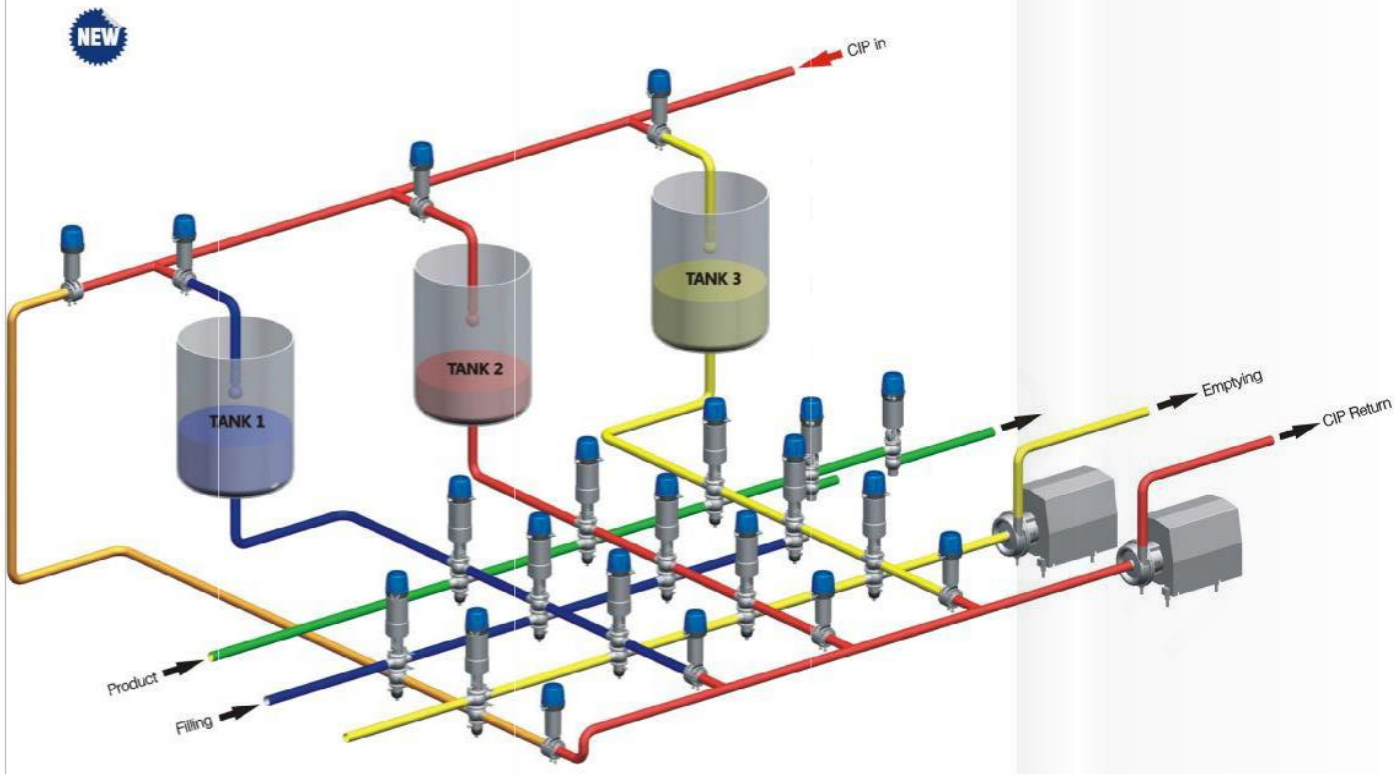
The mixproof butterfly valve as a process element for the separation of media is suitable for a variety of applications:

- In CIP systems, for separating CIP media
- In flush–out processes
- In water management
- As pipe section shut–off valve for separating media
- In CIP/gas management (breweries)
- At storage tanks for separating product/CIP
- As CIP return valve in a valve matrix
- Preferably suitable for liquid and gaseous media without suspended matter/particles.



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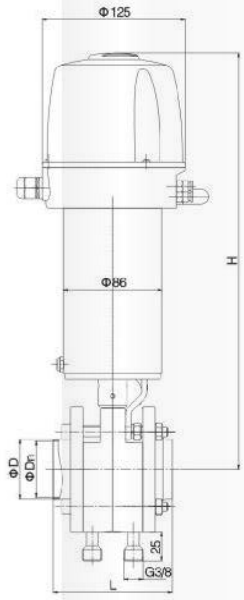


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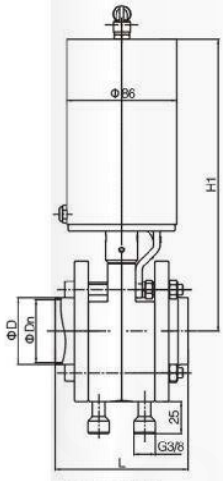


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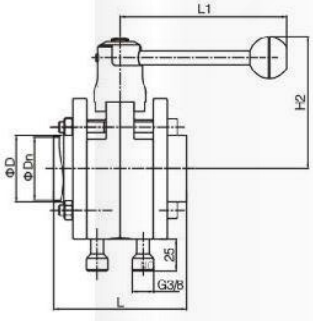


NO.1116001

INCH

| SIZE | Dn | D | L | L1 | H | H1 | H2 |
|---|---|---|---|---|---|---|---|
| 1" | 22.4 | 25.4 | 100 | 126 | 351 | 214.5 | 86 |
| 1.25" | 28.8 | 31.8 | 100 | 126 | 351 | 214.5 | 86 |
| 1.5" | 35.1 | 38.1 | 100 | 126 | 355 | 218.5 | 90 |
| 2" | 47.8 | 50.8 | 104 | 133 | 363 | 236.5 | 102 |
| 2.5" | 59.5 | 63.5 | 112 | 144 | 370 | 242 | 109 |
| 3" | 72.2 | 76.2 | 112 | 144 | 376 | 248.5 | 115 |
| 4" | 97.6 | 101.6 | 128 | 144 | 389 | 261.5 | 131 |

DIN

| SIZE | Dn | D | L | L1 | H | H1 | H2 |
|---|---|---|---|---|---|---|---|
| DN25 | 25 | 28 | 100 | 126 | 351 | 214.5 | 86 |
| DN32 | 31 | 34 | 100 | 126 | 355 | 218.5 | 90 |
| DN40 | 37 | 40 | 100 | 126 | 357 | 220.5 | 92 |
| DN50 | 49 | 52 | 104 | 133 | 365 | 228.5 | 104 |
| DN65 | 66 | 70 | 112 | 144 | 374 | 237.5 | 113 |
| DN80 | 81 | 85 | 120 | 160 | 382 | 245 | 123.5 |
| DN100 | 101 | 104 | 128 | 160 | 392 | 255 | 133.5 |

# DOUBLE SEAT BUTTERFLY VALVE (TYPE A)

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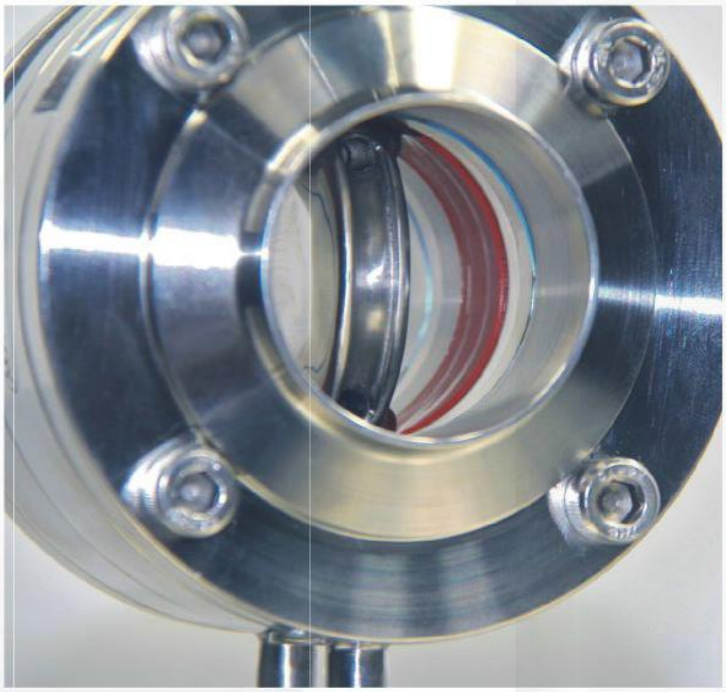
## Technical specifications

Size: 1"–4 ", and DN25 – DN100
Material: 1.4404/1.4301, 304/316L
Max temperature: – 10℃ – 130℃
Max pressure: 10bar
Operation: pneumatic/manual interchangeable
Control box: C–TOP basic, C–TOP+AS–I communication
Seal: EPDM (standard) FPM/SILICON/NBR, FDA177.2600



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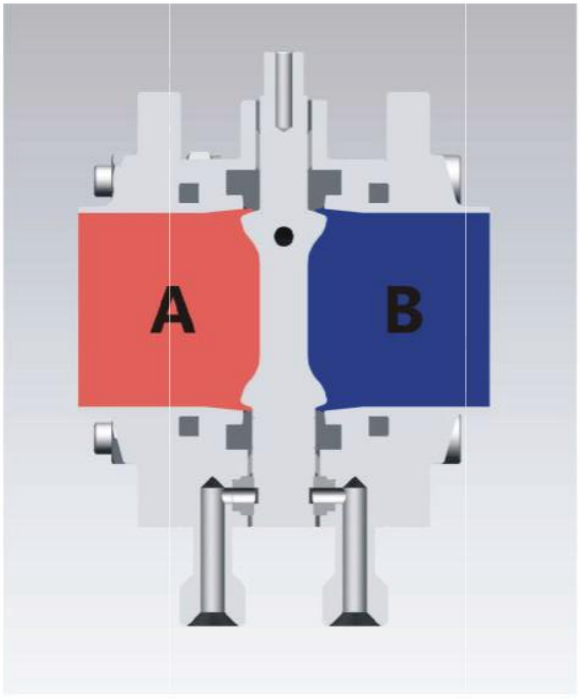
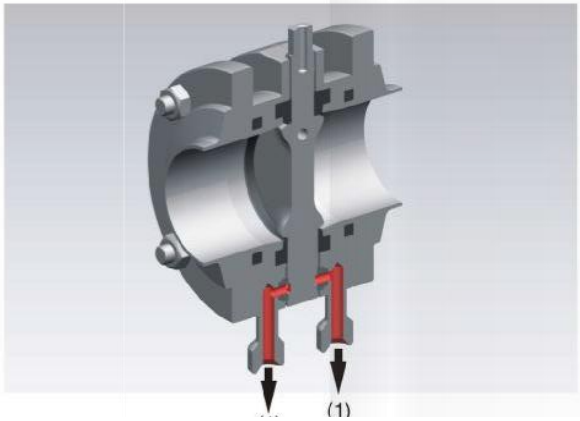
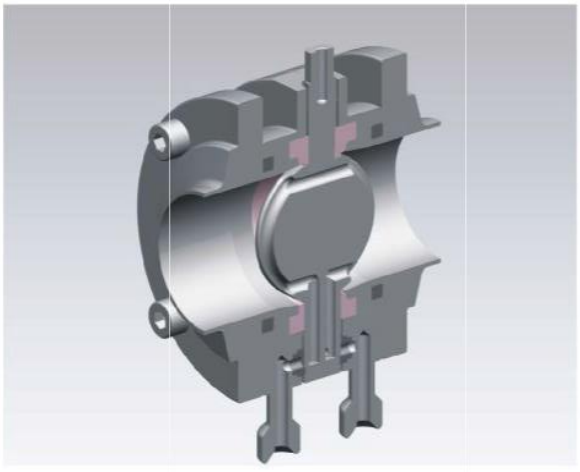
## Double Seat Mixproof Butterfly Valve

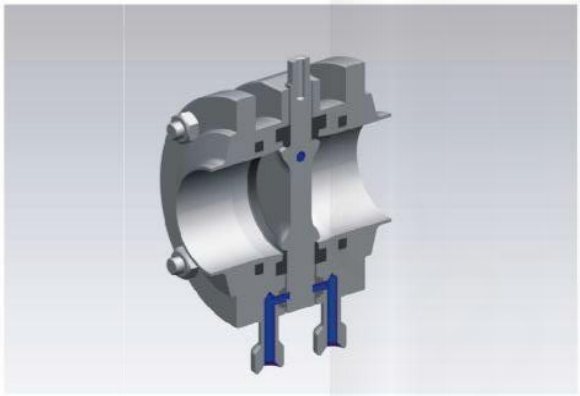
### Operating principle




**Valve Closed position**
When the valve is in the non–actuated position (OFF position), medium A and medium B are reliably separated. The leakage cavity open towards the atmosphere in this case. After switching, the medium in the valve disk leakage areas can drain by gravity (1).The connections also serve as leakage indicator.





**Valve Open position**
When the valve open, the leakage paths towards the atmosphere are closed.

**Cleaning of the leakage cavity**
The leakage paths can be cleaned/flushed if necessary.
For this purpose, the two cleaning connections can be integrated into the CIP circuit. Flushing must take place when the valve is closed. The cleaning pressure in the supply line should be slightly lower than the inside process pressure (hygienic aspects).

# DOUBLE SEAT BUTTERFLY VALVE (TYPE B)

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## Application

Double seat butterfly valves can be used in food–processing, pharmacy and chemical industries. Leakage Butterfly Valve offers an easy and safe separatation of products and prevents accidental mixing in case of gasket failure. The most usual applications are the ones that require safe separation of the product and CIP solutions in a single point (not in manifolds), or at the end of a manifold (e.g. CIP return) or entry of a CIP solution into a tank (through a spray ball).

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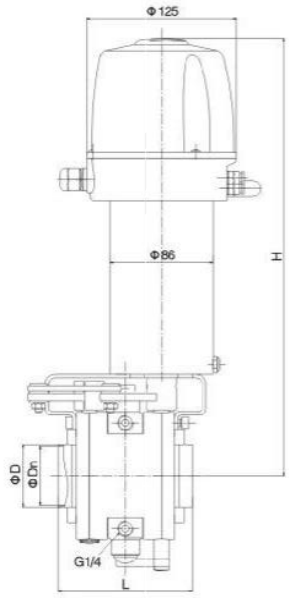


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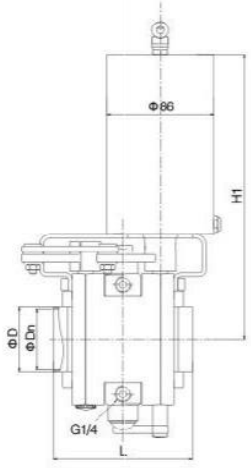


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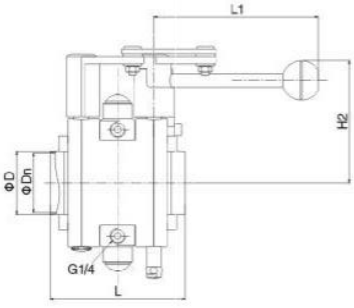


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## INCH

| SIZE | Dn | D | L | L1 | H | H1 | H2 |
|---|---|---|---|---|---|---|---|
| 1" | 22.4 | 25.4 | 110 | 126 | 351 | 214.5 | 86 |
| 1.25" | 28.8 | 31.8 | 110 | 126 | 351 | 214.5 | 86 |
| 1.5" | 35.1 | 38.1 | 110 | 126 | 355 | 218.5 | 90 |
| 2" | 47.8 | 50.8 | 112 | 133 | 363 | 236.5 | 102 |
| 2.5" | 59.5 | 63.5 | 126 | 144 | 370 | 242 | 109 |
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| DN65 | 66 | 70 | 126 | 144 | 374 | 237.5 | 113 |
| DN80 | 81 | 85 | 146 | 160 | 382 | 245 | 123.5 |
| DN100 | 101 | 104 | 170 | 160 | 392 | 255 | 133.5 |

# DOUBLE SEAT BUTTERFLY VALVE (TYPE B)

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## Design and features

Compact and robust design.
Interchangeable half–bodies (any connection type).
Connections:
Weld DIN 11850
CLAMP DIN 32676
Thread DIN 11851
Weld ASME BPE,
Clamp ASME BPE


## Materials

Parts in contact with the medium AISI 316L/1.4404
Other: AISI 304
Gasket: EPDM FDA 177.2600
Internal surface finish: Ra ⩽ 0.8 µm
External surface finish: CNC Machined

## Options

Gaskets: NBR, MVQ & FPM
Connections: SMS, RJT, DIN, 3A, ISO
Air/air pneumatic actuator
Inductive position sensors
C–TOP control head
Position sensors

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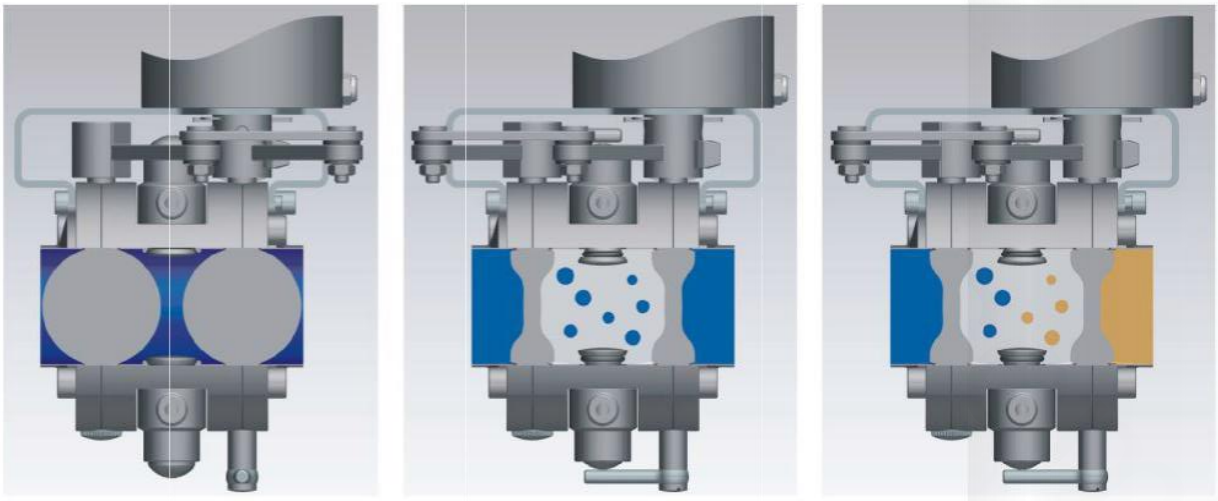
# Double seat mixproof Butterfly Valve

## Operating principle

It provides double safety:the two butterfly valves are simultaneously actuated by only one actuator.
When the two valves are closed,there is a chamber between them. The chamber is under atmospheric pressure as it open to the exterior, thus, in case of failure of any of the two gaskets, leakage of the liquid product will indicate any possible mixing of products. The state of the gaskets is supervised by means of either of the leakage detectors.The other detector (superior) controls the entry of the cleaning solution to prevent any kind of contamination in the chamber.These 2 leakage detectors provide optimal protection and enable cleaning of the intermediate chamber.



ON

物料 Medium

OFF

CIP CIP Liquid

Clean chamber / detector