



## For Gas Management

### Alfa Laval SB Self-cleaning CO<sub>2</sub>-valve

#### Concept

Combined gas escape/supply valve to be used in tank top systems and other applications for easy gas flow, allowing venting as well as pressurizing of vessel through the valve. Partly-closed for CIP liquid to be cleanable and self-draining.

#### Working Principle

The internal polypropylene valve body is force opened by a stainless steel spring, thus allowing full gas capacity through the valve in both directions. By introducing CIP flow against the spring force, the internal valve body will be moved to a closed position.

The CIP liquid will close the valve but a special drilling of the valve body ensures cleaning of all valve parts. Depending on valve size, this CIP flow is approx. 800-900 l/h.

#### Standard Design

The valve housing consists of two parts held together by a threaded connection. Inside there is a valve body and a spring to keep the body in open position. The valve body is drilled to ensure internal cleaning of the valve during CIP.

The valve is typically positioned as an integrated part of the gas/CIP-pipe at the top plate. It can be mounted at an angle of maximum 45° to the ideal vertical position.

#### TECHNICAL DATA

**Maximum gas flow (both directions) at max. 0.1 bar  $\Delta P$**

| Size     | Flow (m <sup>3</sup> /h) |
|----------|--------------------------|
| 1"/DN25  | 25                       |
| 1½"/DN40 | 50                       |
| 2"/DN50  | 150                      |
| 2½"/DN65 | 250                      |
| 3"/DN80  | 450                      |
| 4"/DN100 | 600                      |



#### PHYSICAL DATA

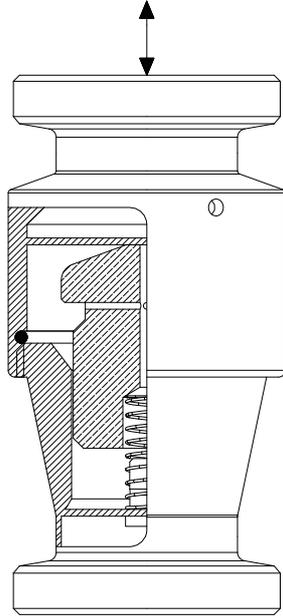
##### Materials

Steel parts: . . . . . EN 1.4404 (AISI 316L) with 3.1 cert.  
Product wetted seals: . . . . . EPDM  
Product wetted polymers: . . . . . Polypropelen

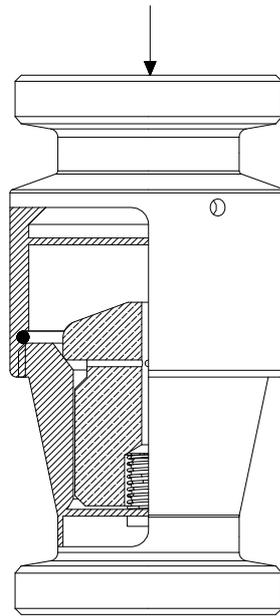
##### Connections

Weld end acc. DIN 11850  
Weld end acc. ISO 2037  
Unions DIN 11851  
Hygienic - Unions DIN 11853  
Clamps ferrule ISO 2852

Open for gas in/out



Partly closed during CIP flow



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