



For Gas Management

Alfa Laval SB Self-cleaning CO₂-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 ΔP

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



PHYSICAL DATA

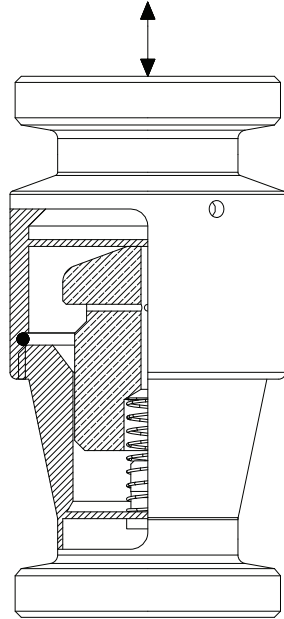
Materials

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

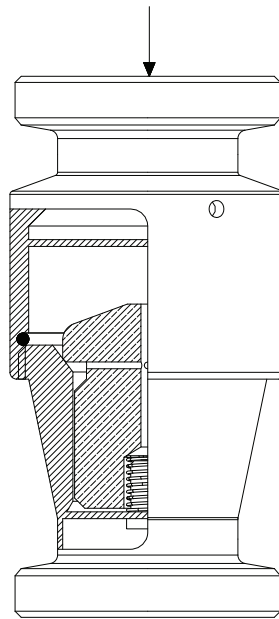
Connections

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



Alfa Laval reserves the right to change specifications without prior notification. ALFA LAVAL is a trademark registered and owned by Alfa Laval Corporate AB.

ESE02920EN 1507

© Alfa Laval

How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.