

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 (m³/h)
1"/DN25	25
1½"/DN40	50
2"/DN50	150
2½"/DN65	250
3"/DN80	450
4"/DN100	600

PHYSICAL DATA

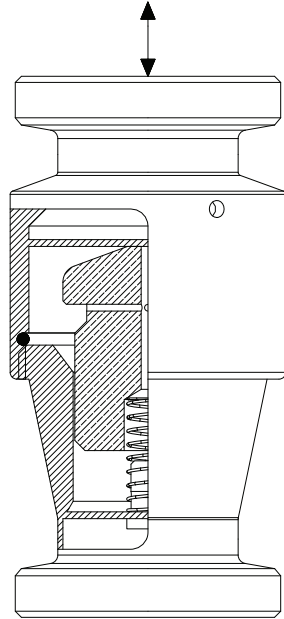
Materials

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

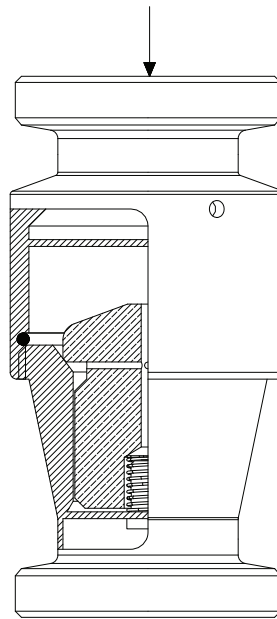
Connections

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

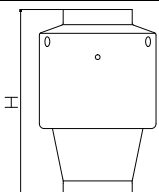
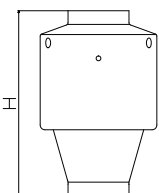
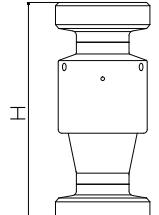
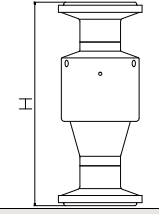
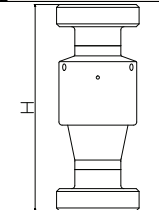


Partly closed during CIP flow



Check Valves
Product code: 5920

Material: 1.4404 (316L)
Seals: EPDM
Inside surface finish: $Ra \leq 0.8 \mu m$
Outside surface finish: $Ra \leq 1.6 \mu m$

Item No.	PPL EUR	Size DN	Dimension		SCANDI BREW
			H (mm)	H (in)	
Welding End - DIN 11850					
9615116001	364	DN25	78	3.07	
9615116002	432	DN40	86	3.39	
9615116003	561	DN50	113	4.45	
9615116004	737	DN65	133	5.24	
9615116005	1009	DN80	165	6.5	
9615116006	1421	DN100	165	6.5	
Welding End - ISO 2037					
9615110601	346	25	78	3.07	
9615110602	432	38	86	3.39	
9615110603	561	51	113	4.45	
9615110604	737	63.5	133	5.24	
9615110605	894	76.1	165	6.5	
9615110606	1421	101.6	165	6.5	
DIN Male Part - DIN 11851					
9615117801	353	DN25	122	4.8	
9615117802	459	DN40	130	5.12	
9615117803	599	DN50	159	6.26	
9615117804	803	DN65	183	7.2	
9615117805	1034	DN80	215	8.46	
9615117806	1561	DN100	225	8.86	
Clamp Ferrule - ISO 2852					
9615118001	448	25	130	5.12	
9615118002	497	38	137	5.39	
9615118003	620	51	164	6.46	
9615118004	966	63.5	184	7.24	
9615118005	1392	76.1	216	8.5	
9615118006	1770	101.6	216	8.5	
DIN Hygienic Male Part - DIN 11853					
9615117901	385	DN25	130	5.12	
9615117902	491	DN40	148	5.83	
9615117903	679	DN50	175	6.89	
9615117904	883	DN65	205	8.07	
9615117905	1112	DN80	249	9.8	
9615117906	1727	DN100	265	10.43	

SB Self Cleaning CO2 Valve

Control / Check valves

Non-Return Valve
Product code: 5920

Material: 1.4404 (316L)
Seals: EPDM
Inside surface finish: Ra ≤ 0.8 µm
Outside surface finish: Ra ≤ 1.6 µm

2.3

Item No.	PPL EUR	Size DN	Dimension		SCANDI BREW
			H (mm)	H (in)	
DIN Male/Weld End - DIN11851 / DIN11850					
9615117807	352	DN25	100	3.94	
9615117808	459	DN40	108	4.25	
9615117809	620	DN50	136	5.35	
9615117810	803	DN65	158	6.22	
9615117811	1033	DN80	190	7.48	
9615117812	1560	DN100	195	7.68	
Clamp Ferrule/Weld End - ISO2852 / ISO2037					
9615118007	448	25	104	4.09	
9615118008	497	38	112	4.41	
9615118009	620	51	139	5.47	
9615118010	966	63.5	159	6.26	
9615118011	1392	76.1	191	7.52	
9615118012	1771	101.6	191	7.52	
Hygienic/Weld End - DIN11853 / DIN11850					
9615117907	384	25	104	4.09	
9615117908	491	38	117	4.61	
9615117909	678	51	144	5.67	
9615117910	884	63.5	169	6.65	
9615117911	1112	76.1	207	8.15	
9615117912	1726	101.6	215	8.46	