



The Optimum Choice for Viscous Liquids

Alfa Laval SBV Sanitary Ball Valve

Concept

SBV is a sanitary ball valve designed for use as a product valve, in applications within food, beverage, pharmaceutical and chemical industries. The full bore design with zero flow restriction makes SBV the optimum choice for viscous or particulate liquids.

Working principle

A precision made ball with a bore is positioned inside the valve body between two flanges and two PTFE valve seats. A 90° rotation of the valve stem is transferred to the ball and thereby opening or closing the valve. A special selected PTFE material grade secures long lifetime of the product wetted seals. Reliable valve stem sealing is achieved by the use of spring loaded and self adjusting seal rings. SBV is operated by a pneumatic actuator or manually operated by means of a handle with lockable positions. The valve is assembled with screws for easy inspection and maintenance.

Standard Design

The standard actuator is prepared for position indication with inductive proximity switches. The actuator is maintenance free. Two inspection holes in the bonnet connecting valve body and actuator allow for easy inspection of the stem seal tightness. Actuated valves are delivered NC (normally closed) and are easily rebuilt to NO (normally open).



TECHNICAL DATA

Temperature

Temperature range: 0°C to 130°C (EPDM) *)

Pressure

Max. product pressure: 1600 kPa (16 bar)

Min. product pressure: 0 bar

Actuator:

Operating pressure: 600 - 1000 kPa (6 - 10 bar)

Temperature range: 4°C to +60°C

Air consumption actuator Ø104: 0.5 NI

Air consumption actuator Ø129: 0.75 NI

Max. recommended pressure during activation: 600 kPa (6 bar)

*) SIP (Stem in place) up to 150°C is possible but only when using EPDM, and without operating it. Any seal material must be 95°C before operating.

PHYSICAL DATA

Materials

Product wetted steel parts: 1.4404 (316L)

Other steel parts: 1.4307 (304)

External surface finish: Semi-bright (blasted)

Internal surface finish: Bright (polished), Ra < 0.8 µm

Product wetted seals: EPDM

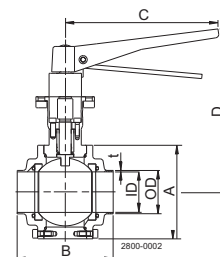
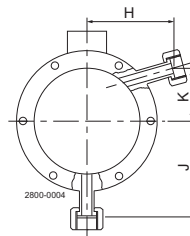
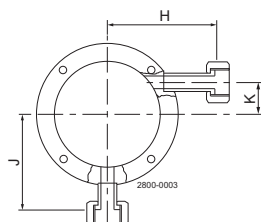
Other seals: NBR

- Note1**
- If welding both flanges, ensure that the flanges can be moved axially 30-40 mm depending on size to allow for valve maintenance (see manual for further details).

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Options

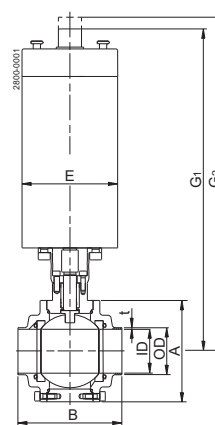
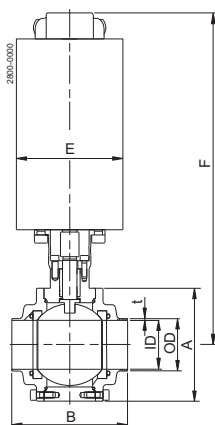
- A. Male parts or clamp liners in accordance with required standard.
- B. Actuator for mounting of the Alfa Laval.: IndiTop, ThinkTop or ThinkTop Basic.
- C. Cavity cleaning connections, (ISO 228 - 6 1/2).
- D. Cavity fillers (encapsulating valve seats).
- E. Handle and bracket for inductive proximity switches (manual valves).
- F. Product wetted elastomer seals of NBR, Q or FPM.



DN/OD 25 - 63.5 /DN 25-65

DN/OD 76.1 - 101.6 /DN 80100

Cavity cleaning connections (optional)



Dimensions (mm)

Size	Inch tube						DIN tube					
	DN/OD	DN/OD	DN/OD	DN/OD	DN/OD	DN/OD	DN 25	DN 40	DN 50	DN 65	DN 80	DN 100
A	74	95	110	130	159	195	74	95	110	130	159	195
OD	25	38	51	63.5	76.1	101.6	29	41	53	70	85	104
ID	21.8	34.8	47.8	60.3	72.9	97.6	26	38	50	66	81	100
t	1.6	1.6	1.6	1.6	1.6	2	1.5	1.5	1.5	2	2	2
B	93	103	113	125	163	220	93	103	113	125	163	220
C	180	180	180	180	180	291	180	180	180	180	180	291
D	117	125	135	145	156	206	117	125	135	145	156	206
E	104	104	104	104	104	129	104	104	104	104	104	129
F	307	315	324	335	346	395	307	315	324	335	346	395
G1	334	342	350	362	372	422	334	342	350	362	372	422
G2	344	352	360	372	382	432	344	352	360	372	382	432
H	70.5	79	84	90.5	104	114	70.5	79	84	90.5	104	114
J	55	65.5	73	83	97.5	115.5	55	65.5	73	83	97.5	115.5
K	13	19	25	33	54.5	65.5	13	19	25	33	54.5	65.5
Weight manual (kg)	2.3	3.4	4.8	7	13.5	27	2	3.1	4.5	6.4	12.3	24
Weight actuated (kg)	6.7	7.8	9.2	11.4	17.9	35.8	6.4	7.5	8.9	10.8	17.9	32.8
Weight with ThinkTop® adapter (kg)	8.6	9.7	11.1	13.3	19.8	37.7	8.3	9.4	10.8	12.7	19.8	34.7