

The Optimum Choice for Viscous Liquids

Alfa Laval SBV Ball Valve

Concept

SBV is a hygienic 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 rebuild to NO (normally open).

TECHNICAL DATA

Temperature

Temperature range:	0°C to 130°C (EPDM) However max. 95OC when operating the valve
PressureMax. product pressure:Min. product pressure:	
Actuator: Operating pressure: Temperature range: Air consumption actuator ø104: Air consumption actuator ø129:	4°C to +60°C 0.5 NI



PHYSICAL DATA

Materials

Product wetted steel parts: 1.4404 (316L)
Other steel parts:
External surface finish: Semi-bright (blasted)
Internal surface finish: Bright (polished), Ra < 0.8 μ m
Product wetted seals: EPDM
Other seals: NBR

Note!

Max. recommended pressure during

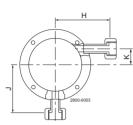
activation: 600 kPa (6 bar)

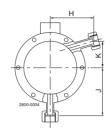
If welding both flanges, ensure that the flanges can be moved axially 30-40 mm depending on size to allow for valve maintenance (see manual for further details).

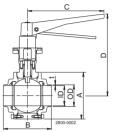
Actuated valves are delivered NC (normally closed) and are easily rebuilt to NO (normally open). See manual for further details.

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.

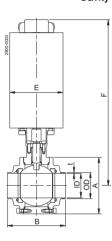


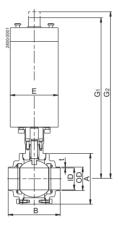




DN/OD 25 - 63.5 /DN 25-65

5 DN/OD 76.1 - 101.6 /DN 80100 Cavity cleaning connections (optional)





Dimensions (mm)

Inch tube											
DN/OD	DN/OD	DN/OD	DN/OD	DN/OD	DN/OD	DIN tube					
25	38	51	63.5	76.1	101.6	DN 25	DN 40	DN 50	DN 65	DN 80	DN 100
74	95	110	130	159	195	74	95	110	130	159	195
25	38	51	63.5	76.1	101.6	29	41	53	70	85	104
21.8	34.8	47.8	60.3	72.9	97.6	26	38	50	66	81	100
1.6	1.6	1.6	1.6	1.6	2	1.5	1.5	1.5	2	2	2
93	103	113	125	163	220	93	103	113	125	163	220
180	180	180	180	180	291	180	180	180	180	180	291
117	125	135	145	156	206	117	125	135	145	156	206
104	104	104	104	104	129	104	104	104	104	104	129
307	315	324	335	346	395	307	315	324	335	346	395
334	342	350	362	372	422	334	342	350	362	372	422
344	352	360	372	382	432	344	352	360	372	382	432
70.5	79	84	90.5	104	114	70.5	79	84	90.5	104	114
55	65.5	73	83	97.5	115.5	55	65.5	73	83	97.5	115.5
13	19	25	33	54.5	65.5	13	19	25	33	54.5	65.5
2.3	3.4	4.8	7	13.5	27	2	3.1	4.5	6.4	12.3	24
6.7	7.8	9.2	11.4	17.9	35.8	6.4	7.5	8.9	10.8	17.9	32.8
8.6	9.7	11.1	13.3	19.8	37.7	8.3	9.4	10.8	12.7	19.8	34.7
	25 74 25 21.8 1.6 93 180 117 104 307 334 344 70.5 55 13 2.3 6.7	25 38 74 95 25 38 21.8 34.8 1.6 1.6 93 103 180 180 117 125 104 104 307 315 334 342 344 352 70.5 79 55 65.5 13 19 2.3 3.4 6.7 7.8	DN/ODDN/ODDN/OD253851749511025385121.834.847.81.61.61.69310311318018018011712513510410410430731532433434235034435236070.579845565.5731319252.33.44.86.77.89.2	DN/ODDN/ODDN/ODDN/OD25385163.5749511013025385163.521.834.847.860.31.61.61.61.69310311312518018018018011712513514510410410410430731532433533434235036234435236037270.5798490.55565.57383131925332.33.44.876.77.89.211.4	DN/ODDN/ODDN/ODDN/ODDN/OD25385163.576.1749511013015925385163.576.121.834.847.860.372.91.61.61.61.61.69310311312516318018018018018011712513514515610410410410410430731532433534633434236037238270.5798490.51045565.5738397.51319253354.52.33.44.8713.56.77.89.211.417.9	DN/ODDN/ODDN/ODDN/ODDN/ODDN/OD25385163.576.1101.6749511013015919525385163.576.1101.621.834.847.860.372.997.61.61.61.61.61.6229310311312516322018018018018018029111712513514515620610410410410410412930731532433534639533434235036237242234435236037238243270.5798490.51041145565.5738397.5115.51319253354.565.52.33.44.8713.5276.77.89.211.417.935.8	DN/ODDN/ODDN/ODDN/ODDN/ODDN/OD25385163.576.1101.6DN 2574951101301591957425385163.576.1101.62921.834.847.860.372.997.6261.61.61.61.61.62033931031131251632209318018018018018029118011712513514515620611710410410410410412910430731532433534639530733434235036237242233434435236037238243234470.5798490.510411470.55565.5738397.5115.5551319253354.565.5132.33.44.8713.52726.77.89.211.417.935.86.4	DN/ODDN/ODDN/ODDN/ODDN/ODDN/OD25385163.576.1101.6DN 25DN 407495110130159195749525385163.576.1101.6294121.834.847.860.372.997.626381.61.61.61.61.621.51.5931031131251632209310318018018018018029118018011712513514515620611712510410410410410412910410430731532433534639530731533434236037238243234435270.5798490.510411470.5795565.5738397.5115.55565.51319253354.565.513192.33.44.8713.52723.16.77.89.211.417.935.86.47.5	DN/ODDN/ODDN/ODDN/ODDN/ODDN/ODDN/ODDN/OD25385163.576.1101.6DN 25DN 40DN 507495110130159195749511025385163.576.1101.629415321.834.847.860.372.997.62638501.61.61.61.61.621.51.51.5931031131251632209310311318018018018018029118018018011712513514515620611712513510410410410410412910410410430731532433534639530731532433434235036237242233434235034435236037238243234435236070.5798490.510411470.579845565.5738397.5115.55565.5731319253354.565.51319252.33.44.8713.52723.14.56.77.89.211.4 <t< td=""><td>DN/ODDN/ODDN/ODDN/ODDN/ODDN/ODDN/ODDN/OD25385163.576.1101.6DN 25DN 40DN 50DN 657495110130159195749511013025385163.576.1101.62941537021.834.847.860.372.997.6263850661.61.61.61.61.621.51.51.5293103113125163220931031131251801801801801802911801801801801171251351451562061171251351451041041041041041041041041043073153243353463953073153243353343423503623724223343423503623443523603723824323443523603725565.5738397.5115.55565.573831319253354.565.513192533233.44.8713.52723.14.56.4</td><td>DN/OD DN/OD DN/OD DN/OD DN/OD DN/OD DN/OD DN/OD DN/OD DN 40 DN 50 DN 50 DN 65 DN 80 74 95 110 130 159 195 74 95 110 130 159 25 38 51 63.5 76.1 101.6 29 41 53 70 85 21.8 34.8 47.8 60.3 72.9 97.6 26 38 50 66 81 1.6 1.6 1.6 1.6 2 1.5 1.5 1.5 2 2 93 103 113 125 163 220 93 103 113 125 163 180 180 180 180 180 180 180 180 180 180 180 180 180 161 104 104 104 104 104 104 104 104 104</td></t<>	DN/ODDN/ODDN/ODDN/ODDN/ODDN/ODDN/ODDN/OD25385163.576.1101.6DN 25DN 40DN 50DN 657495110130159195749511013025385163.576.1101.62941537021.834.847.860.372.997.6263850661.61.61.61.61.621.51.51.5293103113125163220931031131251801801801801802911801801801801171251351451562061171251351451041041041041041041041041043073153243353463953073153243353343423503623724223343423503623443523603723824323443523603725565.5738397.5115.55565.573831319253354.565.513192533233.44.8713.52723.14.56.4	DN/OD DN/OD DN/OD DN/OD DN/OD DN/OD DN/OD DN/OD DN/OD DN 40 DN 50 DN 50 DN 65 DN 80 74 95 110 130 159 195 74 95 110 130 159 25 38 51 63.5 76.1 101.6 29 41 53 70 85 21.8 34.8 47.8 60.3 72.9 97.6 26 38 50 66 81 1.6 1.6 1.6 1.6 2 1.5 1.5 1.5 2 2 93 103 113 125 163 220 93 103 113 125 163 180 180 180 180 180 180 180 180 180 180 180 180 180 161 104 104 104 104 104 104 104 104 104

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