



SS316L BALL VALVE 6000 PSI OD X OD

Instrumentation Ball Valve · Three Piece Square Body · Compression Tube Ends · Panel Mounting

BRAND: SWLOK

SKU: SW-0070

6000 PSI

OD X OD

PANEL MOUNTING



FIG. 1 | SS316L BALL VALVE 6000 PSI OD X OD

PRODUCT OVERVIEW

The OD type ball valve is a quarter turn instrumentation valve machined from solid barstock and rated to 6000 psi. Both ends are compression tube fittings, so the valve goes straight into a tubing run with no threading, welding or adaptors, which is what makes it the standard shut off on impulse lines, sample points and instrument hook ups.

The three piece body allows the seats and ball to be replaced without cutting the valve out of the line. The stem is anti-blowout with an internally loaded shoulder, so line pressure cannot drive it out if the gland is loosened, and a single panel nut lets the valve mount through an instrument panel from the front.

Product type **Ball valve, three piece, quarter turn**

End connection **Compression tube fitting, OD x OD**

Body material **SS 316L barstock, SS 304L available**

Working pressure **6000 psi**

Temperature range **-50°C to +230°C**

Size range **1/4" to 1/2", or 6 mm to 10 mm tube**

TECHNICAL SPECIFICATION

Body	SS 316 barstock	Working pressure	6000 psi
Ball and stem	SS 316	Temperature range	-50°C to +230°C
Seat and gasket	PTFE	Operation	90 degree quarter turn, low torque
Gland seal	PTFE	Stem	Anti-blowout, internally loaded shoulder
Handle	Plastic	Testing	100% hydrostatically tested
Panel nut	SS 304	Compliance	Conforms to NACE MR 0175



PRODUCT DATA SHEET

SS316L BALL VALVE 6000 PSI OD X OD
Ref. SW-0070 | Rev. 02

BILL OF MATERIALS

#	COMPONENT	MATERIAL	#	COMPONENT	MATERIAL
1	Valve body	SS 316	9	Panel nut	SS 304
2	End connector (2 nos.)	SS 316	10	Stem	SS 316
3	Body gasket (2 nos.)	PTFE	11	Handle	Plastic
4	Seat (2 nos.)	PTFE	12	Grub screw	SS 304
5	Ball	SS 316	13	Front ferrule (2 nos.)	SS 316
6	Gland seal	PTFE	14	Back ferrule (2 nos.)	SS 316
7	Gland washer	SS 316	15	Nut (2 nos.)	SS 316
8	Gland adjuster	SS 316			

Bodies are machined from SS 316L or SS 304L barstock. Other materials are available on request. The ferrules and nuts form the compression tube fitting and are supplied fitted to both ends.

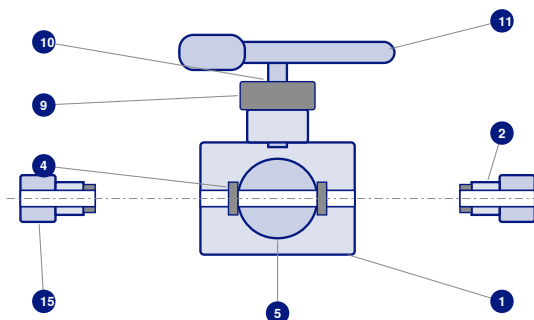


FIG. 2 | SECTIONAL ARRANGEMENT, PRINCIPAL COMPONENTS NUMBERED PER THE BILL OF MATERIALS

DIMENSIONS AND WEIGHTS

PART NUMBER	TUBE SIZE	SERIES	L LENGTH (MM)	BORE (MM)	HEX (MM)	S (MM)
SW-MP-H-PBV-3-DN8	1/4"	Inch	69.5	6.0	22.0	32.0
SW-MP-H-PBV-3-DN10	3/8"	Inch	73.5	7.0	22.0	32.0
SW-MP-H-PBV-3-DN15	1/2"	Inch	77.0	8.0	24.0	35.0
SW-MP-H-PBV-3	6 mm	Metric	72.0	4.0	22.0	32.0
SW-MP-H-PBV-3	8 mm	Metric	73.0	5.0	22.0	32.0
SW-MP-H-PBV-3	10 mm	Metric	75.0	7.0	24.0	35.0

L = overall length across the tube ends, bore = flow passage diameter, hex = across flats on the end connector, S = across flats on the body. The metric series carries no size suffix in the catalogue part numbers, so state the tube outside diameter on the order. Dimensions are for reference only and are subject to change without notice.



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ORDERING INFORMATION

FIELD	OPTIONS
Product description	SS316L Ball Valve 6000 PSI OD x OD
SKU	SW-0070
Tube size	1/4", 3/8", 1/2", or 6, 8, 10 mm
Body material	SS 316L standard, SS 304L on request
Working pressure	6000 psi
Mounting	Panel mounting with single nut
Order example	SW-0070 / SW-MP-H-PBV-3-DN8 / 1/4" OD / SS316L

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.

COMPLIANCE AND QUALITY

- Machined from SS 316L or SS 304L barstock
- 100% hydrostatically tested
- Anti-blowout stem with internally loaded shoulder
- Three piece body for in line seat replacement
- Conforms to NACE MR 0175
- Material certificate available on request

INSTALLATION

- Cut the tube square and deburr it inside and out before assembly
- Insert the tube fully to the shoulder before tightening the nut
- Tighten the nut by the number of turns given by the fitting maker, not by feel
- Support the tube run so the valve carries no bending load
- Mount through the panel with the single panel nut from the front

TYPICAL APPLICATIONS

- Instrument hook ups and impulse lines
- Sample and analyser points
- Gauge and transmitter isolation
- Hydraulic and pneumatic control lines
- Oil and gas and chemical process plant
- Test and calibration rigs

OPERATION AND MAINTENANCE

- Operate through the full quarter turn, the handle shows the ball position
- Do not use the valve part open as a throttling position
- Retighten the gland adjuster lightly if weeping appears at the stem
- Exercise the valve periodically so the seats do not take a set

COMPANY

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