SS316 BALL VALVE 3000 PSI NPT

2-Piece Round Body Medium Pressure Ball Valve · SS 316 Bar Stock · Female NPT

BRAND: SWLOK | SKU: P-0039 | SIZE 1/4" TO 2" | 3000 PSI / 207 BAR



FIG. 1 | SWLOK SS316 ROUND BODY BALL VALVE 3000 PSI, FNPT x FNPT

PRODUCT OVERVIEW

The SWLOK MP series ball valve is a two-piece, round body medium pressure valve machined from high integrity stainless steel bar stock. It gives quick, reliable quarter-turn shut-off in systems operating at pressures up to 3000 psi.

A bi-directional floating ball seals under both pressure and vacuum, and the internally loaded anti-blowout stem improves safety and seal integrity. Operating torque is low, every valve is 100% hydrostatically tested, and the lever can be locked in the open or closed position.

Valve type	**Ball valve, 2-piece round body**
Operation	**Manual, 90° lockable lever**
Body material	**SS 316 bar stock**
End connection	**Female NPT x female NPT**
Pressure rating	**3000 psi (207 bar)**
Size range	**1/4" to 2" (DN8 to DN50)**

TECHNICAL SPECIFICATION

Series	**SWLOK MP, round body**	Working pressure	**207 bar (3000 psi)**
Body design	**2-piece**	Temperature range	**-50°C to +230°C**
Ball design	**Floating, bi-directional**	Testing	**100% hydrostatic**
End connection	**Female NPT**	Sour service	**Conforms to NACE MR0175**
Stem	**Anti-blowout, internally loaded**	Traceability	**Full material traceability**
Seats	**PTFE**	Handle	**SS 304, PVC sleeve, lockable**

BILL OF MATERIALS

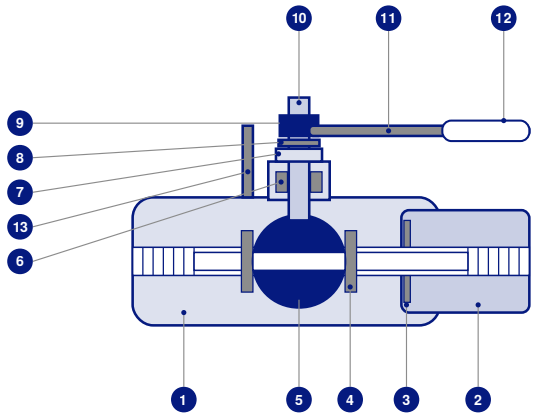


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL
1	Valve body	SS 316
2	End connector	SS 316
3	Body gasket	PTFE
4	Seat (2 nos.)	PTFE
5	Ball	SS 316
6	Stem seal (2 nos.)	PTFE
7	Gland	SS 316
8	Spring washer	SS 304
9	Lock nut	SS 304
10	Stem (anti-blowout)	SS 316
11	Handle	SS 304
12	Sleeve	PVC
13	Pin	SS 304

Materials as per the SWLOK MP series components key. SS 304L or SS 316L bar stock and other materials on request.

DIMENSIONS

SIZE	DN	PART NO.	L (MM)	BORE O (MM)	BODY OD R (MM)
1/4"	8	SW-MP-H-BV-2-DN8-F	58	6	30
3/8"	10	SW-MP-H-BV-2-DN10-F	58	8	30
1/2"	15	SW-MP-H-BV-2-DN15-F	70	10	35
3/4"	20	SW-MP-H-BV-2-DN20-F	75	12	42
1"	25	SW-MP-H-BV-2-DN25-F	85	18	48
1.1/4"	32	SW-MP-H-BV-2-DN32-F	100	20	62
1.1/2"	40	SW-MP-H-BV-2-DN40-F	105	22	66
2"	50	SW-MP-H-BV-2-DN50-F	120	25	85

L = valve length, O = bore, R = body outside diameter. NPT end connections. Dimensions are taken from the SWLOK MP series data sheet, are nominal, are subject to change without notice and are given for reference only.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	P-0039
Size	1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2"
Thread	Female NPT x female NPT
Material	SS 316. Other materials on request
Handle	Lockable lever with PVC sleeve
Order example	**P-0039 / 3/4" / FNPT / SS316**

Stock held in Dubai in sizes 1/4" to 2" for fast despatch across the UAE and GCC. Contact our sales desk for pricing and certification requirements.

PRESSURE AND TEMPERATURE

Working pressure	**207 bar (3000 psi)**
Temperature range	**-50°C to +230°C**
Service	**Pressure and vacuum**
Hydrostatic test	**100% of valves tested**

The system rating is limited by the lowest rated component, including pipe, tube and fittings. Confirm duty with SWBM for service near the temperature limits.

TYPICAL APPLICATIONS

- Oil and gas utility and process lines
- Petrochemical and chemical processing
- Instrumentation and sampling systems
- Hydraulic and lubrication circuits
- Compressed air and gas service
- Industrial pipeline isolation

COMPLIANCE AND QUALITY

- Products conform to NACE MR0175
- 100% hydrostatic testing
- Full material traceability
- Machined from high integrity bar stock
- Anti-blowout stem with internally loaded shoulder
- Material test certificates available on request

INSTALLATION AND OPERATION

- Flush the line before installation to clear debris and thread swarf
- Apply PTFE tape or an approved sealant to the male pipe thread only
- Hold the valve on the body or end connector flats when tightening, never on the handle
- Do not exceed the rated working pressure of the valve or the connected pipework
- The valve is open when the lever is in line with the pipe, and closed at 90°
- Release line pressure fully before any maintenance or packing adjustment

COMPANY

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