SS316L BALL VALVE SQUARE 6000 PSI NPT

3-Piece Square Body High Pressure Ball Valve · SS 316L Bar Stock · Female NPT

BRAND: SWLOK | SKU: P-0041 | SIZE 1/4" TO 2" | 6000 PSI / 414 BAR



FIG. 1 | SS316L SQUARE BODY BALL VALVE 6000 PSI, FNPT x FNPT

PRODUCT OVERVIEW

The SWLOK HP-S series ball valve is a three-piece, square body high pressure valve machined from high integrity SS 316L bar stock. Its compact body suits space constrained installations, and the three-piece design makes maintenance straightforward.

A bi-directional floating ball gives leak-proof shut-off on pressure or vacuum. The anti-blowout stem uses an internally loaded shoulder design, operating torque is low, every valve is 100% hydrostatically tested, and a panel mounting model is available as an option.

Valve type	**Ball valve, 3-piece square body**
Operation	**Manual, 90° quarter-turn lever**
Body material	**SS 316L bar stock**
End connection	**Female NPT x female NPT**
Pressure rating	**6000 psi (414 bar)**
Size range	**1/4" to 2" (DN8 to DN50)**

TECHNICAL SPECIFICATION

Series	**SWLOK HP-S**	Working pressure	**414 bar (6000 psi)**
Body design	**3-piece, square body**	Temperature range	**-20°C to +250°C**
Ball design	**Floating, bi-directional**	Testing	**100% hydrostatic**
End connection	**Female NPT**	Sour service	**Conforms to NACE MR0175**
Stem	**Anti-blowout, internally loaded**	Panel mounting	**Optional**
Seats	**Delrin**	Handle	**SS 304 with plastic grip**

BILL OF MATERIALS

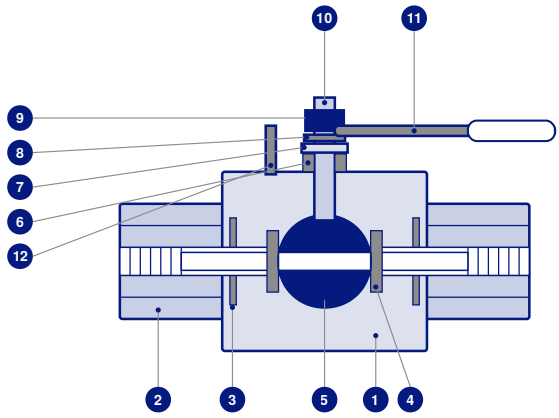


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

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

Valve body and end connectors in SS 316L bar stock. SS 304L and other materials available on request.

DIMENSIONS

SIZE	DN	L (MM)	BORE O (MM)	HEX H (MM)	BODY S (MM)
1/4"	8	68	6	22	32
3/8"	10	74	8	25	32
1/2"	15	93	10	28	40
3/4"	20	95	12	36	45
1"	25	116	16	41	50
1.1/2"	40	150	20	63	75
2"	50	168	25	75	95

L = valve length, O = bore, H = end connector hexagon, S = body square. NPT end connections. Dimensions are taken from the HP-S series data sheet, are nominal, are subject to change without notice and are given for reference only. Size 1.1/4" can be offered against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	P-0041
Size	1/4", 3/8", 1/2", 3/4", 1", 1.1/2", 2"
Thread	Female NPT x female NPT
Material	SS 316L. SS 304L on request
Mounting	Standard. Panel mounting model optional
Order example	**P-0041 / 1" / FNPT / SS316L**

Sizes 1/4" to 1" held as ready stock in Dubai. Sizes 1.1/2" and 2" against enquiry. Contact our sales desk for pricing and certification requirements.

PRESSURE AND TEMPERATURE

Working pressure	**414 bar (6000 psi)**
Temperature range	**-20°C to +250°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

- Hydraulic systems and test benches
- Instrumentation and analyser panels
- Oil and gas control and injection lines
- Petrochemical high pressure service
- Space constrained skids and panels
- High pressure water and gas lines

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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