SS316L BALL VALVE 10000 PSI NPT

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

BRAND: SWLOK | SKU: P-0042 | SIZE 1/4" TO 2" | 10,000 PSI / 690 BAR



FIG. 1 | SWLOK SS316L SQUARE BODY BALL VALVE 10,000 PSI, FNPT x FNPT

PRODUCT OVERVIEW

The SWLOK HP-H series ball valve is a three-piece, square body high pressure valve machined from high integrity SS 316L bar stock. It is built for hydraulic, instrumentation and process lines that need reliable quarter-turn shut-off at pressures up to 10,000 psi.

A bi-directional floating ball seals under both pressure and vacuum. The anti-blowout stem uses an internally loaded shoulder design for safety and seal integrity, operating torque is low, and the handle position shows open and closed at a glance. Full material traceability is maintained.

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	**10,000 psi (690 bar)**
Size range	**1/4" to 2" (DN8 to DN50)**

TECHNICAL SPECIFICATION

Series	**SWLOK HP-H**	Working pressure	**690 bar (10,000 psi)**
Body design	**3-piece, square body**	Temperature range	**-50°C to +230°C**
Ball design	**Floating, bi-directional**	Sour service	**Conforms to NACE MR0175**
End connection	**Female NPT**	Traceability	**Full material traceability**
Stem	**Anti-blowout, internally loaded**	Handle	**SS 304 with plastic grip**
Seats	**Delrin**	Other materials	**On request**

BILL OF MATERIALS

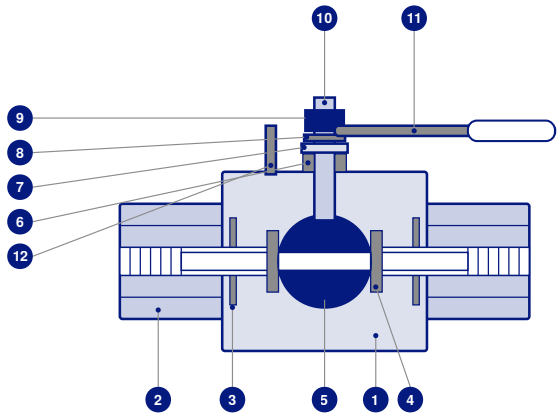


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	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 as marked on the product. Other materials available on request.

DIMENSIONS

SIZE	DN	PART NO.	L (MM)	BORE O (MM)	HEX H (MM)	BODY S (MM)
1/4"	8	SW-HP-H-BV-3-DN8-F	79	6	27	32
3/8"	10	SW-HP-H-BV-3-DN10-F	79	8	30	32
1/2"	15	SW-HP-H-BV-3-DN15-F	85	10	32	38
3/4"	20	SW-HP-H-BV-3-DN20-F	102	12	41	45
1"	25	SW-HP-H-BV-3-DN25-F	108	14	45	50
1.1/2"	40	SW-HP-H-BV-3-DN40-F	146	18	46	81
2"	50	SW-HP-H-BV-3-DN50-F	164	22	57	100

L = valve length, O = bore, H = end connector hexagon, S = body square. Dimensions are taken from the SWLOK HP-H series data sheet, are nominal, are subject to change without notice and are given for reference only.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	P-0042
Size	1/4", 3/8", 1/2", 3/4", 1", 1.1/2", 2"
Thread	Female NPT x female NPT
Material	SS 316L. Other materials on request
Handle	Lever with plastic grip
Order example	**P-0042 / 1/2" / 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	**690 bar (10,000 psi)**
Temperature range	**-50°C to +230°C**
Service	**Pressure and vacuum**
Flow direction	**Bi-directional**

The pressure rating applies to the valve. 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 power units and test benches
- Instrumentation and sampling lines
- Oil and gas wellhead and control panels
- Chemical injection systems
- High pressure water and gas service
- Marine high pressure systems

COMPLIANCE AND QUALITY

- Products conform to NACE MR0175
- Machined from high integrity bar stock
- Full material traceability
- Anti-blowout stem with internally loaded shoulder
- Leak-tight under pressure and vacuum
- 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

Sunel Wala Building Materials
Trading Co. LLC (SWBM)
Dubai, United Arab Emirates

SALES ENQUIRIES

info@swbm-fittings.com
Tel: +971 4 238 5652
Mobile / WhatsApp: +971 50 748 1772

ONLINE

www.swbm-fittings.com
Brand: SWLOK

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