



Sync-Lok

Ball Valves

SBV Series - 2 & 3 Way



2-Way Ball Valves

Sync-Lok SBV series - Three piece, 2-way valves are specially designed and ruggedly manufactured for use in corrosive & hazardous conditions. Our valves are precision machined for maximum durability & efficiency to provide a high quality, low cost alternative in fluid & gaseous control systems to meet the demands of our customers. All valves are available in high-grade stainless steel, carbon steel, brass & monel. End connections are available in M/F threaded NPT, BSP, BSPT, ISO, DIN and JIS tapered ends.

Features / Benefits

A479-316 Construction - for corrosion resistance

Full or Reduced Bore - for excellent flow

3 Piece Design - for easy installation and maintenance

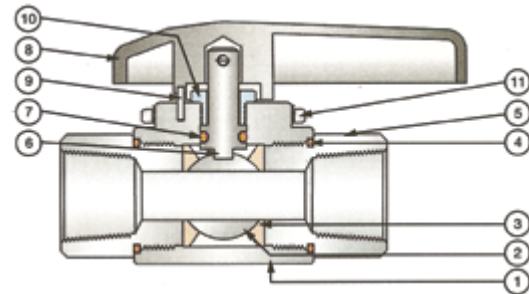
Anti-blow out, internally loaded stem - for safety

Floating Ball Design - for positive sealing and seat wearout

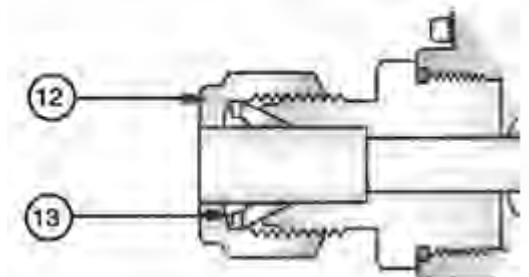
Low torque 90° actuation w/ stainless steel lever / phenolic handle - for smooth operation

Materials of Construction

Sr.	Description	Qty.	Material
1	BODY	1	A479-316/B16
2	BALL	1	A479-316
3	SEAL	2	PTFE / POM
4	O' RING	2	VITON / BUNA-N
5	ADAPTERS	2	A479-316/B16
6	SPINDLE	1	A479-316
7	O' RING	1	VITON / BUNA-N
8	HANDLE	1	PHENOLIC / SS LEVER
9	LOCK PIN	1	A479-316
10	GLAND NUT	1	A479-316/B16
11	PANEL NUT	1	A479-316/B16
12	NUT	2	A479-316/B16
13	FERRULE SET	4	A479-316/B16



Threaded End Connections



Compression Tube End Connections

Pressure / Temperature Ratings

Seal Material	Temperature	Pressure Rating	Flow Coefficiency Cv.
POM	0° C to 40° C	6,000 psi to 10,000 psi	1.0 to 1.6
PTFE	0° C to 80° C	3,000 psi	

Testing

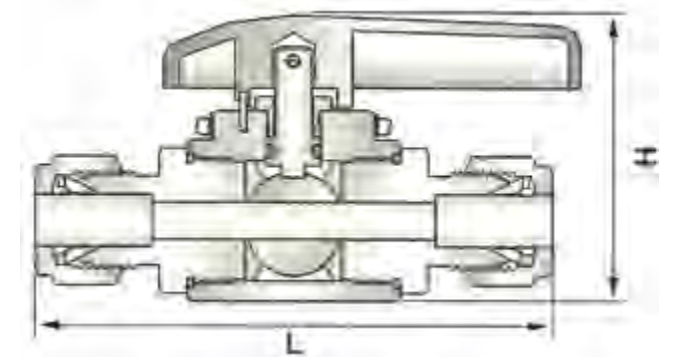
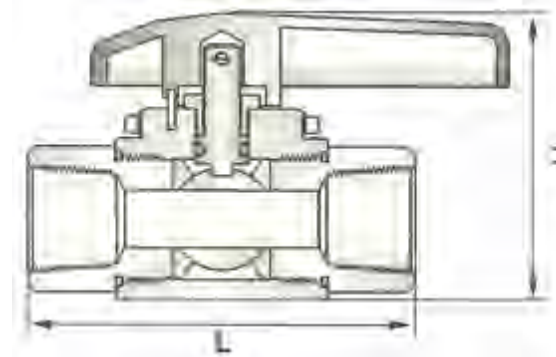
Each valve is hydrostatically tested in accordance with MSS-SP-99. This procedure includes testing of the body cavity. The hydrostatic test is performed with pure water or other liquids of similar or lower viscosity @ 1.5 times the seat leakage and 1.1 times the maximum working pressure.

Each valve is also tested with Nitrogen Gas @ 1,000 PSI for seat, seal and shell leakage.

Other tests like vibration, temperature and helium are available upon request.

Valves that have not been actuated for a period of time may have a higher initial actuation torque.

2 Way Ball Valve Dimensions



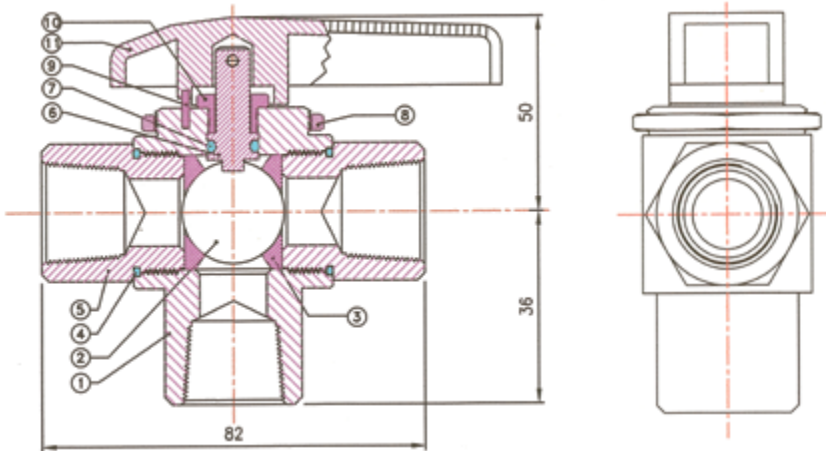
Part No.	Size	L	H	Orifice
SBV-2-S-02-OD	1/8" OD	78	50	3
SBV-2-S-02-FF	1/8" FEMALE NPT	70	50	3
SBV-2-S-M04-OD	4MM OD	78	50	3
SBV-2-S-04-OD	1/4" OD	78	50	5
SBV-2-S-04-FF	1/4" FEMALE NPT	70	50	5
SBV-2-S-M06-OD	6MM OD	78	50	5
SBV-2-S-05-OD	5/16" OD	78	50	5
SBV-2-S-M08-OD	8MM OD	78	50	5
SBV-2-S-06-OD	3/8" OD	85	50	8
SBV-2-S-06-FF	3/8" FEMALE NPT	72	50	8
SBV-2-S-M10-OD	10MM OD	85	50	8
SBV-2-S-08-OD	1/2" OD	102	60	10
SBV-2-S-08-FF	1/2" FEMALE NPT	85	60	10
SBV-2-S-M12-OD	12MM OD	102	60	10
SBV-2-S-10-OD	5/8" OD	97	63	10
SBV-2-S-M16-OD	16MM OD	97	63	10
SBV-2-S-12-OD	3/4" OD	115	60	16
SBV-2-S-12-FF	3/4" FEMALE NPT	98	60	16
SBV-2-S-M20-OD	20mm OD	115	60	16
SBV-2-S-16-OD	1" OD	121	73	19
SBV-2-S-16-FF	1" FEMALE NPT	115	70	19
SBV-2-S-M25-OD	25MM OD	121	73	19

* All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change

* 300 Series Ball Valves are also available in angle pattern and 3-way switching model

WARNING: Inadequate care or improper utilization of the product can cause excessive damage to life and property. Sync-Lok products are at your liable use and the behest of the user's responsibility to check and analyze the product in which it is going to be inserted, so that the same functions properly and the relevant product is also very important for all safe guard and also precautions to be taken before the user puts the product into service

3-Way Ball Valves



Sr.	Description	Qty.	Material
1	BODY	1	AISI 316 SS / CS
2	BALL	1	AISI 316 SS / CS
3	PACKING	2	PTFE / POM
4	O' RING	2	VITON / BUNA-N
5	ADAPTERS	2	AISI 316 SS / CS
6	SPINDLE	1	AISI 316 SS / CS
7	O' RING	1	VITON / BUNA-N
8	PANEL NUT	1	AISI 316 SS / CS
9	LOCK PIN	1	AISI 316 SS / CS
10	GLAND NUT	1	AISI 316 SS / CS
11	HANDLE	1	NYLON

Features:

- SS 316 construction for corrosion resistance
- Full or reduced bore for excellent flow
- Flexible 3-piece design
- Anti blow-out, internally loaded stem for safety
- 90° smooth action operation
- PTFE/POM seats for ease of use and minimum maintenance
- Pressure rating 6,000 psi

Material Options:

- SS 316, Carbon Steel, Bronze, Hastalloy, Monel
- Optional Kel-F, Polyaman & Peek packing available in high pressure valves

End Connections:

- 1/4" to 1" NPT, BSP, Male or Female threaded or 1/4", 3/8", 1/2" Sync-Lok single or twin ferrule tube fitting ends

Tests:

- Each valve is tested with Nitrogen @ 1,000 psi for seat & seal leakage with a leakage rate of 0.1 sec/min
- Hydro tests performed with pure water @ 1.5 litres of the working pressure
- All valves are 100% factory tested and complete traceability is available upon request
- Valves can be supplied to meet current revision of NACE MR01-75 (Sour Gas Service)

Sync-Lok Locations

407 Newburg Avenue
 Catonsville, MD 21228
 410-869-3480 - Phone
 410-869-3482 - Fax
 info@sync-lok.com - E-Mail

6 Janice Street
 Stanhope, NJ 07874
 973-810-2773 - Phone
 973-810-2774 - Fax