



SS BALL VALVE CL150 FLANGE TYPE

2-Piece Full Bore Flanged Ball Valve · Stainless Steel 316 · Lever Operated, Lockable

BRAND: SW FLOW CONTROLS

SKU: P-0055

SIZE 1" TO 12"

ASME CLASS 150 RF



FIG. 1 | SS BALL VALVE CL150, FLANGED RF, LEVER OPERATED

PRODUCT OVERVIEW

The SWBM SS Ball Valve CL150 Flange Type is a quarter-turn, two-piece full bore valve for on and off isolation in general purpose and process pipelines. Body and end cap are cast in ASTM A351 CF8M stainless steel (SS316), giving good corrosion resistance in water distribution, oil and gas, chemical and general industrial service.

An SS316 ball runs between two filled PTFE seats for tight shut-off at low operating torque. The stem is sealed by PTFE packing under an adjustable bolted gland, and the stainless steel lever can be locked in the open and closed positions. Integral flanged ends suit ASME B16.5 Class 150 raised face pipework.

Valve type	2-piece ball valve, full bore
Operation	Manual, 90° quarter-turn lever
Body material	ASTM A351 CF8M (SS316)
End connection	Flanged, ASME B16.5 Class 150 RF
Pressure rating	ASME Class 150
Size range	1" to 12" (DN25 to DN300)

TECHNICAL SPECIFICATION

P-T rating	ASME B16.34, Class 150	Seat test	1.1 x rated pressure, water
Face to face	ASME B16.10	Port	Full bore
Flange standard	ASME B16.5 Class 150 RF	Body construction	2-piece, bolted end cap
Flange face	Raised face, 2 mm	Ball and stem	SS316
Testing	API 598	Seats	PTFE, 15% filled
Shell test	1.5 x rated pressure, water	Locking	Lockable, open and closed



PRODUCT DATA SHEET

SS BALL VALVE CL150 FLANGE TYPE

Ref. P-0055 | Rev. 01

BILL OF MATERIALS

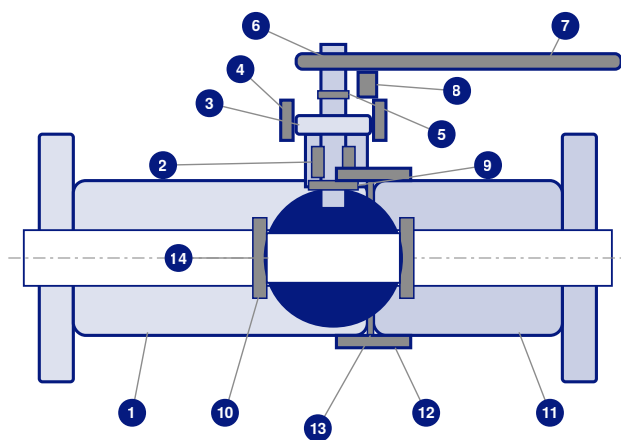


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL
1	Body	ASTM A351 CF8M (SS316)
2	Stem packing	PTFE
3	Gland	ASTM A351 CF8M (SS316)
4	Gland bolt	SS304
5	Snap ring	Stainless steel
6	Stem	SS316
7	Lever handle	Stainless steel
8	Stopper	Stainless steel
9	Thrust washer	PTFE
10	Ball seat (2 nos.)	PTFE, 15% filled
11	End cap	ASTM A351 CF8M (SS316)
12	Body bolt (4 or 6 nos.)	SS304
13	Body gasket	PTFE
14	Ball	SS316

Gear operator for larger sizes and alternative seat materials can be offered on request.

DIMENSIONS AND WEIGHTS

SIZE	DN	BORE	L	D	D1	D2	B	F	BOLT HOLES	H	W	WT (KG)
1"	25	25	127	108	79.5	51	12	2	4 x Ø15	85	130	4.50
1.1/4"	32	32	140	117	89	64	13	2	4 x Ø15	100	160	5.50
1.1/2"	40	40	165	127	98.5	73	15	2	4 x Ø15	120	205	5.80
2"	50	50	178	152	120.5	92	16	2	4 x Ø19	130	205	8.50
2.1/2"	65	65	190	178	139.5	105	18	2	4 x Ø19	140	210	9.20
3"	80	80	203	190	152.5	127	19	2	4 x Ø19	170	300	15.50
4"	100	100	229	229	190.5	157	24	2	8 x Ø19	205	300	23.30
5"	125	125	356	254	216	186	24	2	8 x Ø22	260	800	32.00
6"	150	150	394	279	241.5	216	26	2	8 x Ø22	350	900	44.00
8"	200	200	457	343	298.5	270	29	2	8 x Ø22	500	1000	91.80

All dimensions in mm. Bore = nominal bore, L = face to face, D = flange OD, D1 = bolt circle, D2 = raised face OD, b = flange thickness, f = raised face height, H = centreline to top of stem, W = lever length. Dimensions and weights are nominal and are given for guidance only. Certified drawings for the supplied size are issued on request. Sizes 10" and 12" (DN250, DN300) are offered against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	P-0055
Size	1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4", 5", 6", 8", 10", 12"
End connection	Flanged, ASME B16.5 Class 150 RF
Body material	ASTM A351 CF8M (SS316)
Operation	Lever, lockable. Gear operator on request
Order example	P-0055 / 2" / CL150 RF / CF8M / LEVER

Sizes 1" to 2" held in ready stock in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



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PRESSURE AND TEMPERATURE

Class 150, CF8M	19.0 bar at -29 to +38°C
Class 150, CF8M	16.2 bar at +100°C
Class 150, CF8M	14.8 bar at +150°C
Class 150, CF8M	13.7 bar at +200°C

Body ratings to ASME B16.34 Class 150 for CF8M. The service limit of the complete valve is set by the PTFE seats and stem packing and is lower than the body rating at elevated temperature. Confirm duty with SWBM before use above +150°C or on steam.

TYPICAL APPLICATIONS

- Water distribution and treatment
- Oil and gas utility and process lines
- Chemical and petrochemical plant
- Marine and offshore service water
- Food and pharmaceutical utilities
- General industrial process piping

COMPLIANCE AND QUALITY

- Pressure and temperature rating to ASME B16.34
- Face to face dimensions to ASME B16.10
- Flanged ends to ASME B16.5 Class 150 RF
- Pressure testing to API 598
- Cast stainless steel body to ASTM A351 CF8M
- Material test certificate EN 10204 3.1 on request
- Locking device for open and closed positions

INSTALLATION AND OPERATION

- Flush the line thoroughly before installation to clear weld slag, scale and debris
- Check that mating flanges are Class 150 RF, aligned and parallel, with no pipe strain on the valve
- Use new gaskets suitable for the service and tighten flange bolts evenly in a cross pattern
- Install with the valve in the fully open position to protect the seats
- The valve is open when the lever is in line with the pipe, and closed at 90°
- If the stem weeps, tighten the gland bolts evenly by a small amount

COMPANY

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