



CS BALL VALVE FLANGE TYPE CL150

2-Piece Full Bore Ball Valve · Carbon Steel A216 WCB · Flanged ASME Class 150 · Lever Operated

BRAND: SW FLOW CONTROLS

SKU: p-0015

SIZE 1.1/2" TO 12"

CLASS 150 / 19.6 BAR



FIG. 1 | CS BALL VALVE, FLANGED CLASS 150, WITH LEVER

PRODUCT OVERVIEW

The SWBM CS Ball Valve Flange Type CL150 is a quarter-turn, 2-piece full bore ball valve for on and off isolation in flanged pipelines. The body and end cap are cast carbon steel to ASTM A216 WCB, giving a strong, pressure retaining shell for water, oil, gas and general industrial service.

A floating stainless steel ball seals against reinforced PTFE seats for tight shut-off with low operating torque. The full bore gives minimal pressure drop and allows pigging. Raised face flanges are drilled to ASME B16.5 Class 150, and a top mounting pad allows gear or actuator fitting.

Valve type	2-piece floating ball, full bore
Operation	Manual, 90° quarter-turn lever
Body material	Carbon steel, ASTM A216 WCB
End connection	Flanged RF, ASME B16.5 Class 150
Pressure rating	ASME Class 150
Size range	1.1/2" to 12" (DN40 to DN300)

TECHNICAL SPECIFICATION

Design standard	ASME B16.34	Testing	API 598
Face to face	ASME B16.10	Shell test	29.4 bar (1.5 x rating)
Flange drilling	ASME B16.5 Class 150	Seat test	21.6 bar (1.1 x rating)
Flange face	Raised face	Low pressure air seat test	5.5 bar
Port	Full bore	Temperature range	-29°C to +180°C
Actuator mounting	ISO 5211 top pad	Seat	Reinforced PTFE



PRODUCT DATA SHEET

CS BALL VALVE FLANGE TYPE CL150

Ref. p-0015 | Rev. 01

BILL OF MATERIALS

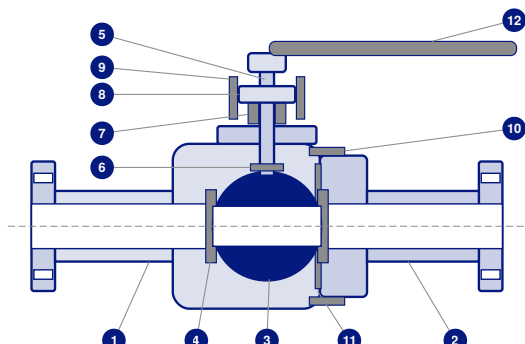


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Body	ASTM A216 WCB
2	End cap	ASTM A216 WCB
3	Ball	Stainless steel, 201
4	Ball seat	Reinforced PTFE (15% filled)
5	Stem	Stainless steel, 2Cr13 (420)
6	Thrust washer	PTFE
7	Stem packing	PTFE
8	Gland	ASTM A216 WCB
9	Gland bolt	ASTM A193 B7
10	Body bolt	ASTM A193 B7
11	Body gasket	PTFE
12	Lever handle	Cast steel

Stainless steel ball, metal seats, gear operator and actuator options available on request. Seat material can be changed to suit the media and temperature.

DIMENSIONS AND WEIGHTS

SIZE	DN	BORE (MM)	L (MM)	D (MM)	PCD (MM)	N X ØD	H (MM)	WEIGHT (KG)
1.1/2"	40	40	165	127	98.4	4 x 16	120	5.8
2"	50	50	178	152	120.7	4 x 19	130	8.5
2.1/2"	65	65	190	178	139.7	4 x 19	140	9.2
3"	80	80	203	190	152.4	4 x 19	170	15.5
4"	100	100	229	229	190.5	8 x 19	205	23.3
5"	125	125	356	254	215.9	8 x 22	260	32.0
6"	150	150	394	279	241.3	8 x 22	350	44.0
8"	200	200	457	343	298.5	8 x 22	500	91.8
10"	250	248	533	406	362.0	12 x 25	-	-
12"	300	298	610	483	431.8	12 x 25	-	-

L = face to face length, D = flange outside diameter, PCD = bolt circle diameter, n x Ød = number and diameter of bolt holes, H = centreline to top of lever. Sizes 5" and above are long pattern. Dimensions and weights are nominal and are given for guidance only. Certified drawings for the supplied make and size are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	p-0015
Size	1.1/2", 2", 2.1/2", 3", 4", 5", 6", 8", 10", 12"
Flange	Class 150 RF, ASME B16.5
Operation	Lever standard. Gear operator on request
Order example	p-0015 / 4" / CL150 RF / LEVER

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.



PRODUCT DATA SHEET

CS BALL VALVE FLANGE TYPE CL150

Ref. p-0015 | Rev. 01

PRESSURE AND TEMPERATURE

-29°C to +38°C	19.6 bar (285 psi)
+100°C	17.7 bar
+150°C	15.8 bar
+180°C	Seat limited, consult SWBM

Body ratings for ASTM A216 WCB to ASME B16.34. The PTFE seats limit service temperature: do not exceed +180°C, and confirm pressure above +65°C with SWBM as seat rating governs.

TYPICAL APPLICATIONS

- Oil and gas production and transfer lines
- Refinery and petrochemical process piping
- Steam, condensate and boiler feed systems
- Power plant and utility services
- Water treatment and pumping stations
- General industrial and marine piping

COMPLIANCE AND QUALITY

- Design to ASME B16.34
- Face to face to ASME B16.10
- Flanges to ASME B16.5 Class 150, raised face
- Inspection and testing to API 598
- 100% shell and seat tested prior to despatch
- Blow-out proof stem design
- Material test certificate EN 10204 3.1 on request

INSTALLATION AND OPERATION

- Flush the line thoroughly before installation to clear weld slag and debris
- Install with the valve in the fully open position
- The valve is open when the lever is in line with the pipe, closed at 90°
- Tighten flange bolts evenly in a crosswise sequence
- Use for full open or full closed service only, not for throttling
- Re-tighten gland bolts evenly if minor stem leakage appears

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: SW Flow Controls

The information in this data sheet is provided in good faith and is believed to be accurate at the date of issue. Dimensions, weights and ratings are nominal and may vary with the manufacturer and production batch. It remains the responsibility of the purchaser to confirm that the product is suitable for the intended service conditions. Sunel Wala Building Materials Trading Co. LLC reserves the right to amend specifications without prior notice. This document does not form part of any contract of sale.