



SS GATE VALVE CL150 FLANGE TYPE

Bolted Bonnet Rising Stem Gate Valve · Stainless Steel 316 · Handwheel Operated

BRAND: SW FLOW CONTROLS

SKU: P-0059

SIZE 1" TO 6"

ASME CLASS 150 RF



FIG. 1 | SS GATE VALVE CL150, FLANGED RF, HANDWHEEL OPERATED

PRODUCT OVERVIEW

The SWBM SS Gate Valve CL150 Flange Type is a linear motion valve for full on and off isolation. When fully open the wedge clears the bore, giving straight-through flow with minimal pressure drop. Body, bonnet and gland are cast in ASTM A351 CF8M stainless steel, with SS316 wedge, stem, seat rings and backseat.

The valve is designed to API 600, with face to face dimensions to ASME B16.10 and flanged ends to ASME B16.5 Class 150 raised face. The stem is sealed by graphite packing under a bolted gland, and the bonnet joint uses an SS316 jacketed graphite gasket. Suitable for water, steam and oil service in process and utility pipework.

Valve type	Gate valve, bolted bonnet, rising stem
Operation	Manual handwheel, multi-turn
Body material	ASTM A351 CF8M (SS316)
End connection	Flanged, ASME B16.5 Class 150 RF
Pressure rating	ASME Class 150
Size range	1" to 6" (DN25 to DN150)

TECHNICAL SPECIFICATION

Design standard	API 600	Seat test	2.2 MPa (22 bar), water
Face to face	ASME B16.10	Backseat test	2.2 MPa (22 bar), water
Flange standard	ASME B16.5 Class 150 RF	Air seat test	0.6 MPa (6 bar)
P-T rating	ASME B16.34	Temperature range	-29°C to +425°C
Testing	API 598	Suitable media	Water, steam, oil
Shell test	3.0 MPa (30 bar), water	Port	Full bore



PRODUCT DATA SHEET

SS GATE VALVE CL150 FLANGE TYPE

Ref. P-0059 | Rev. 01

BILL OF MATERIALS

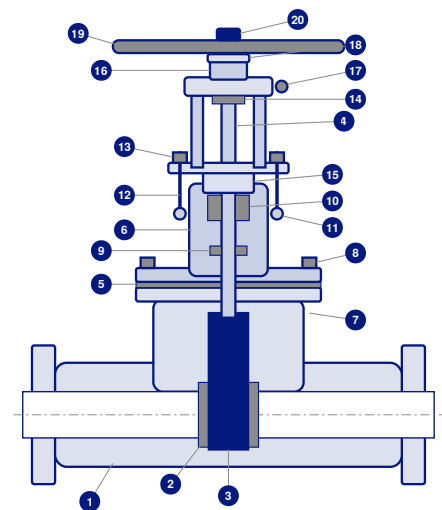


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL
1	Body	ASTM A351 CF8M (SS316)
2	Seat ring	SS316
3	Wedge	SS316
4	Stem	SS316
5	Bonnet gasket	SS316 jacketed graphite
6	Bonnet	ASTM A351 CF8M (SS316)
7	Bonnet stud	SS304
8	Bonnet nut	SS304
9	Backseat	SS316
10	Stem packing	Graphite
11	Pin	SS316
12	Gland bolt	SS304
13	Gland nut	SS304
14	Bushing	ASTM A182 F316
15	Gland	ASTM A351 CF8M (SS316)
16	Stem nut	SS304
17	Lubricator	Copper
18	Retaining nut	SS304
19	Handwheel	Ductile iron, ASTM A395
20	Handwheel lock nut	SS304

Trim and packing alternatives can be offered against enquiry.

DIMENSIONS AND WEIGHTS

SIZE	DN	L	D	D1	D2	B	F	BOLT HOLES
1.1/2"	40	165	127	98.6	73	17.5	1.6	4 x Ø16
2"	50	178	152	120.5	92	19	1.6	4 x Ø19
2.1/2"	65	190	178	139.5	104.5	22.5	1.6	4 x Ø19
3"	80	203	190	152.5	127	24	1.6	4 x Ø19
4"	100	229	229	190.5	157	24	1.6	8 x Ø19
5"	125	254	254	216	185.5	26	1.6	8 x Ø22
6"	150	267	279	241.5	216	26	1.6	8 x Ø22
8"	200	292	343	298.5	270	29	1.6	8 x Ø22

All dimensions in mm. L = face to face, D = flange OD, D1 = bolt circle, D2 = raised face OD, b = flange thickness, f = raised face height. Dimensions are nominal and are given for guidance only. Height, handwheel diameter, weight and 1" (DN25) dimensions are issued on request with certified drawings. Size 8" (DN200) can be offered against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	P-0059
Size	1", 2", 2.1/2", 3", 4", 5", 6"
End connection	Flanged, ASME B16.5 Class 150 RF
Body material	ASTM A351 CF8M (SS316)
Operation	Handwheel
Order example	P-0059 / 4" / CL150 RF / CF8M / HANDWHEEL

Stock held 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	13.7 bar at +200°C
Class 150, CF8M	10.2 bar at +300°C
Class 150, CF8M	5.5 bar at +425°C

Body ratings to ASME B16.34 Class 150 for CF8M. Maximum service temperature +425°C as stated by the manufacturer. Confirm duty with SWBM before use outside these conditions.

TYPICAL APPLICATIONS

- Water distribution and treatment
- Steam and condensate lines
- Oil and gas pipelines
- Petrochemical and petroleum plant
- Chemical process lines
- General industrial process piping

COMPLIANCE AND QUALITY

- Design and manufacture to API 600
- Face to face dimensions to ASME B16.10
- Flanged ends to ASME B16.5 Class 150 RF
- Pressure and temperature rating to ASME B16.34
- Pressure testing to API 598, shell, seat, backseat and air
- Cast stainless steel body and bonnet to ASTM A351 CF8M
- Material test certificate EN 10204 3.1 on request

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 fully closed and the stem vertical or above horizontal
- Use the valve fully open or fully closed only. Do not use for throttling
- Turn the handwheel clockwise to close. Do not use extensions on the handwheel

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

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