



SS GATE VALVE PN16 FLANGE TYPE

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

BRAND: SW FLOW CONTROLS

SKU: P-0060

SIZE 1" TO 4"

PN16 / 16 BAR



FIG. 1 | SS GATE VALVE PN16, FLANGED RF, HANDWHEEL OPERATED

PRODUCT OVERVIEW

The SWBM SS Gate Valve PN16 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 wedge are cast in ASTM A351 CF8M stainless steel, with SS316 stem and stem nut.

The valve is built to the GB flanged gate valve pattern with PN16 raised face flanges for metric pipework. A rising stem shows the valve position at a glance. Suitable for water, oil, steam and mildly corrosive process media in water treatment, petroleum and general industrial piping.

Valve type	Gate valve, bolted bonnet, rising stem
Operation	Manual handwheel, multi-turn
Body material	ASTM A351 CF8M (SS316)
End connection	Flanged, PN16 RF
Pressure rating	PN16 (1.6 MPa)
Size range	1" to 4" (DN25 to DN100)

TECHNICAL SPECIFICATION

Design	GB flanged gate valve pattern	Seat test	1.8 MPa (18 bar), water
Face to face	Manufacturer standard, see page 2	Air seat test	0.6 MPa (6 bar)
Flange	PN16 RF	Max. working temp.	+200°C
Flange drilling	PN16, see page 2	Stem	Rising, SS316
Nominal pressure	1.6 MPa (16 bar)	Wedge	ASTM A351 CF8M (SS316)
Shell test	2.4 MPa (24 bar), water	Port	Full bore



PRODUCT DATA SHEET

SS GATE VALVE PN16 FLANGE TYPE

Ref. P-0060 | Rev. 01

BILL OF MATERIALS

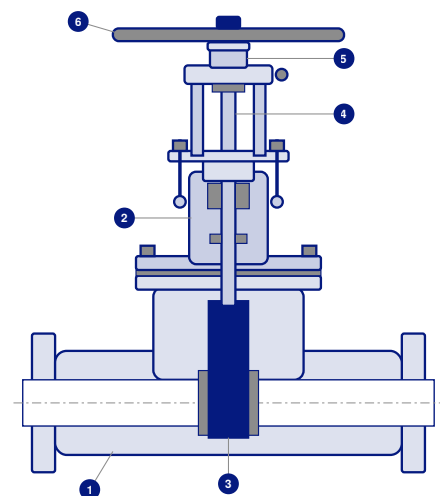


FIG. 2 | SECTIONAL ARRANGEMENT (SCHEMATIC)

#	COMPONENT	MATERIAL
1	Body	ASTM A351 CF8M (SS316)
2	Bonnet	ASTM A351 CF8M (SS316)
3	Wedge	ASTM A351 CF8M (SS316)
4	Stem	SS316
5	Stem nut	SS316
6	Handwheel	Cast iron

Gasket and packing materials to manufacturer standard. Details are issued with certified drawings on request.

DIMENSIONS AND WEIGHTS

SIZE	DN	L	D	D1	D2	B	F	BOLT HOLES	H	H1	DO
1"	25	160	115	85	65	14	2	4 x Ø14	275	303	160
1.1/4"	32	180	135	100	78	16	2	4 x Ø18	280	321	180
1.1/2"	40	200	145	110	85	16	3	4 x Ø18	300	352	200
2"	50	250	160	125	100	16	3	4 x Ø18	358	438	240
2.1/2"	65	265	180	145	120	18	3	4 x Ø18	375	450	240
3"	80	280	195	160	135	20	3	8 x Ø18	433	528	280
4"	100	300	215	180	155	20	3	8 x Ø18	502	620	320

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, H = height closed, H1 = height open, Do = handwheel diameter. Dimensions are nominal and are given for guidance only. Certified drawings and weights for the supplied size are issued on request. Sizes DN125 to DN300 can be offered against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	P-0060
Size	1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"
End connection	Flanged, PN16 RF
Body material	ASTM A351 CF8M (SS316)
Operation	Handwheel
Order example	P-0060 / 2" (DN50) / PN16 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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SS GATE VALVE PN16 FLANGE TYPE

Ref. P-0060 | Rev. 01

PRESSURE AND TEMPERATURE

Nominal pressure	1.6 MPa (16 bar)
Shell test (water)	2.4 MPa (24 bar)
Seat test (water)	1.8 MPa (18 bar)
Seat test (air)	0.6 MPa (6 bar)
Working temperature	Up to +200°C

Ratings as stated by the manufacturer. Allowable working pressure reduces at elevated temperature. Confirm duty with SWBM before use on steam or above ambient temperature at full PN16 pressure.

TYPICAL APPLICATIONS

- Water distribution and treatment
- Steam and hot water lines
- Oil and fuel lines
- Petrochemical and petroleum plant
- Chemical process lines
- General industrial process piping

COMPLIANCE AND QUALITY

- Built to the GB flanged gate valve pattern
- PN16 raised face flanged ends
- Shell, seat and low pressure air testing before despatch
- Cast stainless steel body, bonnet and wedge to ASTM A351 CF8M
- SS316 stem and stem nut
- Material test certificate EN 10204 3.1 on request
- Rising stem position indication

INSTALLATION AND OPERATION

- Flush the line thoroughly before installation to clear weld slag, scale and debris
- Check that mating flanges are PN16, 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

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