



CI GATE VALVE PN16 EPDM SEAT BS 5163

Resilient Seated Gate Valve · Ductile Iron Body · Flanged PN16 · Handwheel Operated

BRAND: SW FLOW CONTROLS

SKU: SW-0408

SIZE 2" TO 6"

PN16 / 16 BAR



FIG. 1 | CI GATE VALVE PN16, EPDM SEAT

PRODUCT OVERVIEW

The SWBM CI Gate Valve PN16 is a resilient seated, non-rising stem gate valve built to BS 5163 for isolation duty in water and general utility pipelines. The body, bonnet and wedge are cast in ductile iron, and the wedge is fully encapsulated in EPDM rubber to give a drop-tight seal against the body without a seat recess that can trap debris.

When fully open the wedge clears the bore completely, giving a full, unobstructed flow path with minimal pressure loss. A stainless steel stem, brass wedge nut and EPDM elastomer seals provide smooth operation and long service life. Flanged ends are drilled to PN16 for direct connection to standard pipework.

Valve type	Resilient seated gate valve, NRS
Operation	Manual, handwheel
Body material	Ductile iron, GGG50
Wedge	Ductile iron, EPDM encapsulated
End connection	Flanged, EN 1092-2 PN16
Size range	2" to 6" (DN50 to DN150)

TECHNICAL SPECIFICATION

Design standard	BS 5163	Nominal pressure	PN16 (1.6 MPa / 16 bar)
Face to face	BS 5163	Shell test	2.4 MPa (24 bar)
Flange drilling	EN 1092-2 PN16	Seat test	1.76 MPa (17.6 bar)
Stem type	Non-rising stem, inside screw	Temperature range	0°C to +70°C
Seat	Resilient, EPDM	Media	Water and neutral liquids
Port	Full bore	Finish	Blue coated, red handwheel



PRODUCT DATA SHEET

CI GATE VALVE PN16 EPDM SEAT BS 5163

Ref. SW-0408 | Rev. 01

BILL OF MATERIALS

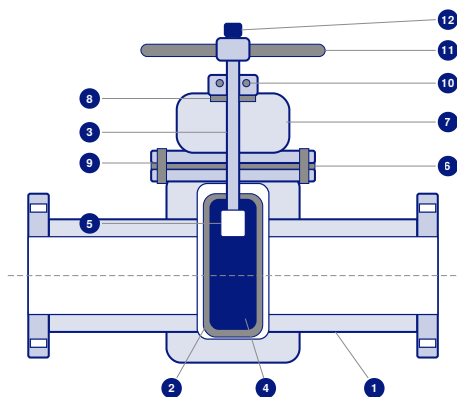


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Body	Ductile iron, GGG50
2	Seat (wedge encapsulation)	EPDM
3	Shaft / stem	Stainless steel, SS420
4	Disc / wedge	Ductile iron, GGG50
5	Wedge nut	Brass
6	Bonnet gasket	EPDM
7	Bonnet	Ductile iron, GGG50
8	Sealing ring	EPDM
9	Socket head screw	Stainless steel
10	O-ring	EPDM
11	Handwheel	Cast iron, painted
12	Stem nut	Stainless steel

GGG50 is ductile iron to EN-GJS-500-7. Cap top and extension spindle arrangements for buried service can be offered against enquiry.

DIMENSIONS

SIZE	DN	L (MM)	D (MM)	D1 (MM)	D2 (MM)	BOLT HOLES N X ØD	SUPPLY
2"	50	178	165	125	99	4 x 19	Stock
2.1/2"	65	190	185	145	118	4 x 19	Stock
3"	80	203	200	160	132	8 x 19	Stock
4"	100	229	220	180	156	8 x 19	Stock
5"	125	254	250	210	184	8 x 19	Stock
6"	150	267	285	240	211	8 x 23	Stock
8"	200	292	340	295	265	12 x 23	On enquiry
10"	250	330	405	355	319	12 x 28	On enquiry
12"	300	356	460	410	370	12 x 28	On enquiry

L = face to face length to BS 5163, D = flange outside diameter, D1 = bolt circle diameter, D2 = raised face diameter, n x Ød = number and diameter of bolt holes. Dimensions are nominal and are given for guidance only. Heights and weights, and certified drawings for the supplied make and size, are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0408
Size	2", 2.1/2", 3", 4", 5", 6", 8", 10", 12" on enquiry
End connection	Flanged PN16, drilled to EN 1092-2
Operation	Handwheel standard. Cap top on request
Order example	SW-0408 / 4" / PN16 / 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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CI GATE VALVE PN16 EPDM SEAT BS 5163

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PRESSURE AND TEMPERATURE

Nominal pressure	16 bar (PN16)
Shell test	24 bar (1.5 x PN)
Seat test	17.6 bar (1.1 x PN)
Working temperature	0°C to +70°C

Ratings apply to non-shock water service. The EPDM seat and seals are not suitable for hydrocarbons, oils, fuels or gas. Confirm duty with SWBM before use outside the conditions above.

TYPICAL APPLICATIONS

- Water supply and distribution networks
- Pumping stations and water treatment plants
- HVAC chilled and condenser water lines
- Irrigation and landscape systems
- Treated effluent and drainage lines
- Industrial cooling and utility water piping

COMPLIANCE AND QUALITY

- Design and face to face in accordance with BS 5163
- Flanges drilled to EN 1092-2 PN16
- Pressure testing in line with EN 12266-1
- 100% shell and seat tested prior to despatch
- Ductile iron GGG50 body, bonnet and wedge
- Fully EPDM encapsulated wedge, no seat recess
- Material test certificate EN 10204 3.1 on request

INSTALLATION AND OPERATION

- Flush the line thoroughly before installation to clear debris and weld slag
- Support adjacent pipework so the valve does not carry pipe loads
- Tighten flange bolts evenly in a crosswise sequence
- Install with the stem vertical where possible
- Use for isolation only, fully open or fully closed, not for throttling
- Operate the valve periodically to keep the stem and wedge free

COMPANY

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