

CI GATE VALVE PN16 BS 5163

Cast Iron Gate Valve · BS 5163 · PN16 Flanged · Non Rising Stem

BRAND: SW FLOW CONTROLS

SKU: SW-0406

BS 5163

PN16

DN50 TO DN600



FIG. 1 | CI GATE VALVE PN16 BS 5163

PRODUCT OVERVIEW

The BS 5163 gate valve is the pattern specified by water authorities for buried and chamber mounted service. It is a non rising stem wedge valve with a flanged body, designed so the whole valve sits within a compact chamber and is operated from above through a surface box or extension spindle.

Flanges are drilled PN16 to BS 4504. The non rising stem keeps the thread out of the water and means no headroom is needed above the valve, and the wedge is guided through its full travel so it seats consistently.

Product type **Gate valve, flanged, non rising stem**

Design standard **BS 5163**

Flange drilling **BS 4504 PN16**

Body material **Cast iron**

Pressure rating **PN16**

Size range **DN50 to DN600**

TECHNICAL SPECIFICATION

Design standard	BS 5163	Pressure rating	PN16
Flange drilling	BS 4504 PN16	Ends	Flanged both ends
Body and bonnet	Cast iron	Coating	Fusion bonded epoxy
Stem	Stainless steel	Stem sealing	O ring
Stem nut	Bronze	Mounting	Buried, chamber or above ground
Operation	Handwheel or cap, non rising stem	Size range	DN50 to DN600

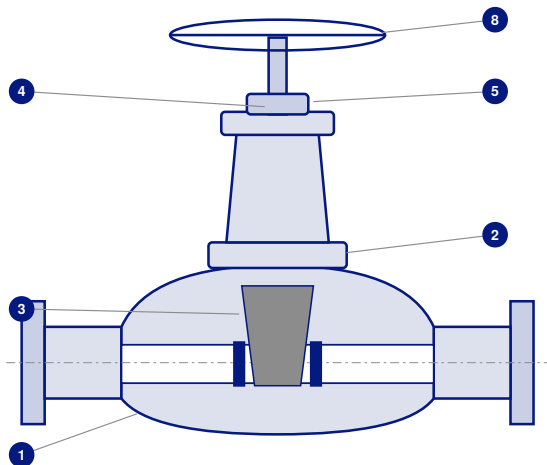
BILL OF MATERIALS


FIG. 2 | SECTIONAL ARRANGEMENT, PRINCIPAL COMPONENTS NUMBERED PER THE BILL OF MATERIALS

#	COMPONENT	MATERIAL
1	Body	Cast iron
2	Bonnet	Cast iron
3	Wedge	Cast iron
4	Stem	Stainless steel
5	Stem nut	Bronze
6	Stem seal	O ring
7	Bonnet gasket	Elastomer
8	Handwheel or cap	Cast iron
9	Bolting	Carbon steel

The manufacturer catalogue for this valve has not yet been received. The parts list above is the standard construction for the BS 5163 pattern and is to be confirmed against the supplier documentation before the sheet is issued. The listing name says brass seat; BS 5163 valves are commonly resilient seated, so the seat type also needs confirming.

DIMENSIONS AND WEIGHTS

DN	FLANGE DIA. D (MM)	BOLT CIRCLE D1 (MM)	FLANGE THICKNESS B (MM)	BOLT HOLES N-ØD0
50	165	125	19	4-Ø19
65	185	145	19	4-Ø19
80	200	160	19	8-Ø19
100	220	180	19	8-Ø19
125	250	210	19	8-Ø19
150	285	240	19	8-Ø23
200	340	295	20	12-Ø23
250	405	355	22	12-Ø28
300	460	410	25.4	12-Ø28
350	520	470	26.5	16-Ø25
400	580	525	28	16-Ø30
450	640	585	30	20-Ø30
500	715	650	31.5	20-Ø34
600	840	770	36	20-Ø41

Flange dimensions are the PN16 drilling, which is common to all PN16 flanged cast iron valves in these sizes. Face to face length, overall height and weight are specific to this valve and are not yet available from the manufacturer, so they are omitted rather than estimated. They will be added once the catalogue is received. Certified drawings are issued on request.



PRODUCT DATA SHEET

CI GATE VALVE PN16 BS 5163

Ref. SW-0406 | Rev. 01

ORDERING INFORMATION

FIELD	OPTIONS
Product description	CI Gate Valve PN16 BS 5163
SKU	SW-0406
Size	DN50 to DN600
Rating	PN16
Flange drilling	BS 4504 PN16
Operation	Handwheel or cap top
Order example	SW-0406 / DN200 / PN16 / BS 5163 / CAP TOP

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

COMPLIANCE AND QUALITY

- Design to BS 5163
- Flange drilling to BS 4504 PN16
- Non rising stem for buried service
- Fusion bonded epoxy coating
- Shell and seat tested before despatch
- Material certificate available on request

INSTALLATION

- Check that gaskets, bolts and flange faces are clean before assembly
- Tighten flange bolts evenly in a diagonal sequence
- Support the adjacent pipework so the valve carries no bending load
- Install with the stem vertical wherever possible
- Fit the extension spindle and surface box square to the valve

TYPICAL APPLICATIONS

- Buried water distribution mains
- Potable water networks
- Firefighting ring mains
- Chamber and surface box installations
- Pump station isolation
- Irrigation networks

OPERATION AND MAINTENANCE

- Operate fully open or fully closed, never use a gate valve to throttle
- Open and close slowly, never use a bar or extension on the handwheel
- Back the handwheel a quarter turn off the fully open stop
- Exercise the valve periodically on lines that are rarely operated

COMPANY

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