



CI GATE VALVE FLANGE TYPE JIS 16K

Cast Iron Gate Valve · JIS F 7425 · 16K Flanged · Bolted Bonnet, Non Rising Stem

BRAND: SW FLOW CONTROLS

SKU: SW-0412

JIS F 7425

16K FLANGED

DN50 TO DN100



FIG. 1 | CI GATE VALVE FLANGE TYPE JIS 16K

PRODUCT OVERVIEW

The CI Gate Valve JIS 16K is the highest pressure rating in the JIS F 7425 cast iron gate valve range. The wedge lifts fully clear of the bore when open, giving almost no pressure drop, and the heavier 16K flange makes the valve suitable for the higher pressure services on a vessel or platform.

Seats are cast copper alloy or hardened stainless steel, and the stem is a left hand double thread trapezoidal screw with an open and close indication plate. Packing is to JIS F 7102 and a screw taper pin is fitted on the larger sizes.

Product type	Gate valve, flanged, non rising stem
Standard	JIS F 7425
Body material	Cast iron FC200
Seat material	CAC406 bronze or SUS420J stainless
Flange rating	JIS 16K
Size range	DN50 to DN100

TECHNICAL SPECIFICATION

Standard	JIS F 7425	Oil and pulsating water	16 kgf/cm ²
Body, cap and disc	FC200 in JIS G 5501	Shell hydro test	24 kgf/cm ²
Valve seat	CAC406 or SUS420J	Seat hydro test	17.6 kgf/cm ²
Valve stem	C3771BD or SUS403	Operation	Handwheel, non rising stem
Stem thread	Left hand double thread, trapezoidal	Indication	Open and close indication plate
Packing	As specified in JIS F 7102	Size range	DN50 to DN100



PRODUCT DATA SHEET

CI GATE VALVE FLANGE TYPE JIS 16K

Ref. SW-0412 | Rev. 01

BILL OF MATERIALS

#	COMPONENT	MATERIAL	#	COMPONENT	MATERIAL
1	Valve casting (body)	FC200 in JIS G 5501	16	Stud bolt	SS400 in JIS G 3101
2	Cap	FC200	17	Stud bolt	C3771BD in JIS H 3250
3	Packing box	FC200 in JIS G 5501	18	Screw taper pin	SUS403 in JIS G 4303
4	Valve disc	FC200 in JIS G 5501	19	Hex nut	C3771BD
5	Handwheel	FC200 in JIS G 5501	20	Hex nut	C3771BD
6	Valve seat, body side	CAC406 or SUS420J1	21	Hex nut	C3604BD in JIS H 3250
7	Valve seat, disc side	CAC406 or SUS420J2	22	Hex nut	C3604BD
8	Screw	CAC406 in JIS H 5120	23	Hex nut	C3604BD
9	Thimble	CAC406 in JIS H 5120	24	Machine screw	C2700W in JIS H 3260
10	Thimble	CAC406	25	Split pin	C2600W in JIS H 3260
11	Gland	Bronze	26	Packing	As specified in JIS F 7102
12	Open / close indication metal part	Brass	27	Gasket	Non asbestos
13	Open / close indication plate	CP2801P in JIS H 3100	28	Gasket	Non asbestos
14	Valve stem	C3771BD or SUS403	29	Name plate	C2801P in JIS H 3100
15	Stud bolt	SS400 in JIS G 3101			

Materials are given in two groups in the catalogue, Group B copper alloy and Group S stainless steel. The group required is confirmed at order stage. A screw taper pin is fitted to valves of DN125 and above.

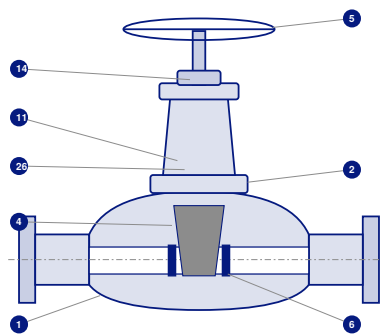


FIG. 2 | SECTIONAL ARRANGEMENT, PRINCIPAL COMPONENTS NUMBERED PER THE BILL OF MATERIALS

DIMENSIONS AND WEIGHTS

DN	D (MM)	L (MM)	D (MM)	BOLT CIRCLE C (MM)	NO. OF HOLES	HOLE H (MM)	BOLT	T (MM)	H (MM)	HANDWHEEL D1 (MM)	MASS (KG)
50	50	200	155	120	8	19	M16	20	300	140	19.4
65	65	220	175	140	8	19	M16	22	350	160	27.6
80	80	230	200	160	8	23	M20	24	400	180	33.0
100	100	250	225	185	8	23	M20	26	450	200	45.8

d = bore, L = face to face, D = flange diameter, C = bolt circle, t = flange thickness, H = approximate height, D1 = handwheel diameter. Nominal, from the manufacturer catalogue. DN125 to DN200 are offered and quoted on enquiry.



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ORDERING INFORMATION

FIELD	OPTIONS
Product description	CI Gate Valve Flange Type JIS 16K
SKU	SW-0412
Size	DN50 to DN100 from stock
Flange rating	JIS 16K
Body	Cast iron FC200
Seat group	Group B copper alloy or Group S stainless
Order example	SW-0412 / DN80 / JIS 16K / GROUP B SEATS

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

- Designed and dimensioned to JIS F 7425
- Shell hydrostatic test at 24 kgf/cm²
- Seat hydrostatic test at 17.6 kgf/cm²
- Copper alloy or stainless steel seats
- 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
- Install with the stem vertical wherever possible
- Flush the line before first operation to clear grit

TYPICAL APPLICATIONS

- Marine and shipboard piping
- Offshore utility systems
- Higher pressure sea water and ballast lines
- Fire and bilge systems
- Pump station isolation
- General industrial water service

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

COMPANY

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