

CI SWING CHECK VALVE FLANGE TYPE JIS 5K

Cast Iron Swing Check Valve · JIS F 7425 · 5K Flanged · Bronze Trim

BRAND: JINHU ENGINEERING

SKU: SW-0404

JIS F 7425

5K FLANGED

DN50 TO DN300



FIG. 1 | CI SWING CHECK VALVE FLANGE TYPE JIS 5K

PRODUCT OVERVIEW

The CI Swing Check Valve JIS 5K is a marine pattern non return valve built to JIS F 7425. A bronze disc hangs from a bronze arm on a brass hinge pin and swings clear of the bore when flow is forward, giving low pressure loss.

When flow stops the disc falls back onto the bronze body seat ring and reverse flow is blocked. Flanges are drilled to the JIS 5K marine standard, which is what shipyards and offshore fabricators in the region specify. The bolted bonnet allows the disc and seat to be inspected in place.

Product type	Swing check valve, flanged
Standard	JIS F 7425
Body material	Cast iron
Trim material	Bronze and brass
Flange rating	JIS 5K
Size range	DN50 to DN300

TECHNICAL SPECIFICATION

Standard	JIS F 7425	Oil and pulsating water	5 kgf/cm ²
Body and bonnet	Cast iron	Non shock water to 120°C	7 kgf/cm ²
Disc, arm and seat ring	Bronze	Shell hydro test	10.5 kgf/cm ²
Hinge pin and fasteners	Brass	Seat hydro test	7.7 kgf/cm ²
Flange rating	JIS 5K	Mounting	Horizontal line, bonnet upward
Size range	DN50 to DN300	Bonnet	Bolted, gasketed

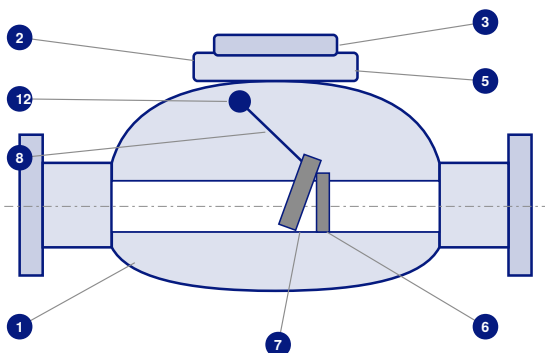
BILL OF MATERIALS


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

#	COMPONENT	MATERIAL
1	Body	Cast iron
2	Bonnet	Cast iron
3	Bonnet stud bolt	Rolled steel
4	Bonnet nut	Rolled steel
5	Gasket	Asbestos
6	Body seat ring	Bronze
7	Disc	Bronze
8	Arm	Bronze
9	Washer	Brass
10	Split pin	Brass
11	Hexagon nut	Brass
12	Hinge pin	Brass

The catalogue lists an asbestos bonnet gasket. A non asbestos gasket of equivalent rating can be supplied on request and should be specified for any project where asbestos is not permitted.

DIMENSIONS AND WEIGHTS

SIZE DN	D (MM)	L (MM)	A (MM)	H (MM)	WEIGHT (KG)
50	50	190	8	97	9.1
65	65	220	9	119	13.9
80	80	250	9	129	19.1
100	100	280	10	146	27.1
125	125	330	11	171	39.0
150	150	380	12	198	53.7
200	200	460	15	235	94.4
250	250	550	16	290	150
300	300	690	17	385	288

d = bore, L = face to face, a = flange thickness, H = overall height. Figures are the JIS 5K values from the manufacturer catalogue and are nominal. Certified drawings are issued on request.



PRODUCT DATA SHEET

CI SWING CHECK VALVE FLANGE TYPE JIS 5K

Ref. SW-0404 | Rev. 01

ORDERING INFORMATION

FIELD	OPTIONS
Product description	CI Swing Check Valve Flange Type JIS 5K
SKU	SW-0404
Size	DN50 to DN300
Flange rating	JIS 5K
Body	Cast iron
Trim	Bronze disc, arm and seat ring
Order example	SW-0404 / DN100 / JIS 5K / CI BODY / BRONZE TRIM

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 10.5 kgf/cm²
- Seat hydrostatic test at 7.7 kgf/cm²
- Bronze seat ring and disc for sea water service
- Material certificate available on request

INSTALLATION

- Check that the gaskets, bolts and flange faces are clean before assembly
- Tighten flange bolts evenly in a diagonal sequence
- Do not use the valve to pull misaligned pipework into line
- Support the adjacent pipework so the valve carries no bending load
- Install in a horizontal line with the bonnet uppermost
- Observe the flow arrow cast on the body

TYPICAL APPLICATIONS

- Marine and shipboard piping
- Offshore utility systems
- Sea water cooling and ballast lines
- Pump discharge lines
- Fire and bilge systems
- General industrial water service

OPERATION AND MAINTENANCE

- Allow a straight run upstream so the disc is not held part open
- Do not use on pulsating service beyond the rated fluid condition
- Inspect the hinge pin and seat faces at planned shutdowns
- Renew the bonnet gasket whenever the bonnet is removed

COMPANY

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