CI SWING CHECK VALVE FLANGE TYPE JIS 10K

Cast Iron Swing Check Valve · JIS F 7425 · 10K Flanged · Bronze Trim

BRAND: JINHU ENGINEERING | SKU: SW-0405 | JIS F 7425 | 10K FLANGED | DN50 TO DN300



FIG. 1 | CI SWING CHECK VALVE FLANGE TYPE JIS 10K

PRODUCT OVERVIEW

The CI Swing Check Valve JIS 10K 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 10K 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 10K**
Size range	**DN50 to DN300**

TECHNICAL SPECIFICATION

Standard	**JIS F 7425**
Body and bonnet	**Cast iron**
Disc, arm and seat ring	**Bronze**
Hinge pin and fasteners	**Brass**
Flange rating	**JIS 10K**
Size range	**DN50 to DN300**

Oil and pulsating water	**10 kgf/cm²**
Non shock water to 120°C	**14 kgf/cm²**
Shell hydro test	**21 kgf/cm²**
Seat hydro test	**15.4 kgf/cm²**
Mounting	**Horizontal line, bonnet upward**
Bonnet	**Bolted, gasketed**

BILL OF MATERIALS

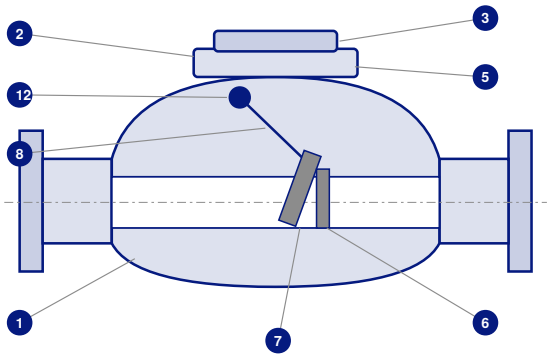


FIG. 2 | SECTIONAL ARRANGEMENT, PRINCIPAL COMPONENTS NUMBERED PER THE BILL OF MATERIALS

#	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	210	10	109	13.6
65	65	240	11	126	20.0
80	80	270	11	136	23.0
100	100	300	12	153	31.0
125	125	350	13	180	49.2
150	150	400	14	205	64.9
200	200	480	17	242	103
250	250	622	20	330	206
300	300	698	22	385	295

d = bore, L = face to face, a = flange thickness, H = overall height. Figures are the JIS 10K values from the manufacturer catalogue and are nominal. Certified drawings are issued on request.

ORDERING INFORMATION

FIELD	OPTIONS
Product description	CI Swing Check Valve Flange Type JIS 10K
SKU	SW-0405
Size	DN50 to DN300
Flange rating	JIS 10K
Body	Cast iron
Trim	Bronze disc, arm and seat ring
Order example	**SW-0405 / DN100 / JIS 10K / 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 21 kgf/cm²
- Seat hydrostatic test at 15.4 kgf/cm²
- Bronze seat ring and disc for sea water service
- Material certificate available on request

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

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

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
Sunel Wala Building Materials
Trading Co. LLC (SWBM)
Dubai, United Arab Emirates

SALES ENQUIRIES
info@swbm-fittings.com
Tel: +971 4 238 5652
Mobile / WhatsApp: +971 50 748 1772

ONLINE
www.swbm-fittings.com
Brand: Jinhu Engineering

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