

CI ANGLE VALVE JIS 5K SDNR

Cast Iron Angle Screw Down Non-Return Valve · JIS 5K Flanged · Handwheel Operated

BRAND: JINHU ENGINEERING

SKU: SW-0372

SIZE 50A TO 300A

JIS 5K



FIG. 1 | CI ANGLE VALVE JIS 5K SDNR, 50A

SUPPLIED UNDER THE



PRODUCT OVERVIEW

The SWBM CI Angle Valve JIS 5K SDNR is a cast iron angle pattern screw down non-return valve for marine and industrial pipework. It combines a stop valve and a check valve in one body, so a single unit shuts the line off on demand and prevents reverse flow at all other times.

In the screw down non-return arrangement the disc is free on the stem. Line pressure from the inlet lifts the disc off the seat and reverse flow pushes it closed, so the valve acts as a check valve whenever it is open. Winding the handwheel down forces the disc onto the seat and gives positive shut off, and winding it up sets a mechanical limit on how far the disc can rise, which allows the flow to be throttled.

Valve type	Angle pattern, screw down non-return
Operation	Manual, rising stem handwheel
Body material	Cast iron
Trim	Bronze or stainless steel
End connection	JIS 5K flanged, inlet and outlet
Size range	50A to 300A (2" to 12")

TECHNICAL SPECIFICATION

Pattern	Angle, 90 degree flow path	Non-shock water to 120°C	0.69 MPa (7 kgf/cm ²)
Body, bonnet, handwheel	Cast iron	Oil and pulsating water	0.49 MPa (5 kgf/cm ²)
Disc and valve seat	Bronze or stainless steel	Air, gas and saturated steam	0.49 MPa (5 kgf/cm ²)
Stem	Brass or stainless steel	Shell test pressure	1.03 MPa (10.5 kgf/cm ²)
Packing gland	Bronze	Seat test pressure	0.76 MPa (7.7 kgf/cm ²)
Packing and gasket	Non asbestos	Non-return seat test	0.39 MPa (4 kgf/cm ²)
Flange standard	JIS B2210, 5K	Country of origin	Korea



PRODUCT DATA SHEET

CI ANGLE VALVE JIS 5K SDNR

Ref. SW-0372 | Rev. 01

BILL OF MATERIALS

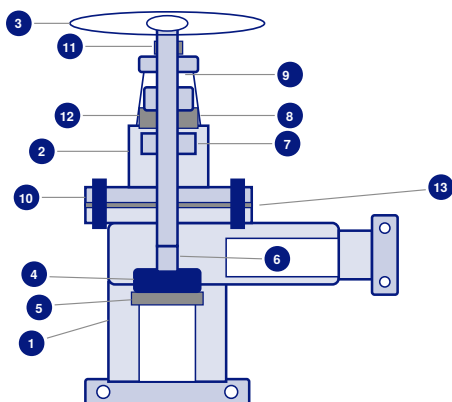


FIG. 2 | SECTIONAL ARRANGEMENT

#	COMPONENT	MATERIAL
1	Body	Cast iron
2	Bonnet	Cast iron
3	Handwheel	Cast iron
4	Disc	Bronze or stainless steel
5	Valve seat	Bronze or stainless steel
6	Disc nut	Bronze or stainless steel
7	Bonnet bushes	Bronze or stainless steel
8	Packing gland	Bronze
9	Stem	Brass or stainless steel
10	Stud bolt and hexagon nut	Steel
11	Lock pin and split pin	Steel and brass
12	Packing	Non asbestos
13	Gasket	Non asbestos

Materials are as listed on the manufacturer parts list. Items 10 and 11 group the stud bolts, nuts, lock pin and split pin. The full 21 item parts list is issued on request.

DIMENSIONS

SIZE	DN	BORE D	FLANGE D	BOLT C	BOLT HOLES	L (MM)	H (MM)	HANDWHEEL W	WEIGHT (KG)
2"	50A	50	130	105	4-15	100	240	160	12.9
2.1/2"	65A	65	155	130	4-15	115	255	180	18.2
3"	80A	80	180	145	4-19	130	265	180	23.4
4"	100A	100	200	165	8-19	150	310	224	33.7
5"	125A	125	235	200	8-19	170	330	250	46.2
6"	150A	150	265	230	8-19	190	380	280	63.4
8"	200A	200	320	280	8-23	220	450	315	105.0
10"	250A	250	385	345	12-23	275	540	355	166.0
12"	300A	300	430	390	12-23	310	610	400	243.0

All dimensions in mm. L = inlet flange face to valve centreline, H = centreline to top of handwheel fully open, W = handwheel diameter. Figures are cross-checked between both manufacturer catalogue tables. Flange drilling is JIS B2210. Sizes 350A and 400A are available against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0372
Size	50A, 65A, 80A, 100A, 125A, 150A, 200A, 250A, 300A
Flange	JIS 5K, inlet and outlet
Trim	Bronze standard, stainless steel on request
Order example	SW-0372 / 100A / JIS 5K / SDNR

A JIS 10K version is listed under SW-0373. Contact our sales desk for pricing and certification.



PRODUCT DATA SHEET

CI ANGLE VALVE JIS 5K SDNR

Ref. SW-0372 | Rev. 01

PRESSURE AND TEMPERATURE

Non-shock water to 120°C	0.69 MPa (7 kgf/cm²)
Oil and pulsating water	0.49 MPa (5 kgf/cm²)
Air and gas	0.49 MPa (5 kgf/cm²)
Steam up to 205°C	0.49 MPa (5 kgf/cm²)

Working pressures are the JIS 5K figures published by the manufacturer for this series in sizes up to 200A. Sizes 250A and above carry a reduced non-shock water rating of 0.59 MPa (6 kgf/cm²). Confirm the duty with SWBM for service outside these conditions.

TYPICAL APPLICATIONS

- Pump discharge lines where backflow must be stopped
- Ballast, bilge and fire main systems
- Fuel oil and lubricating oil transfer
- Tank filling and stripping lines
- Sea water cooling and service water
- Shipyard, offshore and industrial process piping

COMPLIANCE AND QUALITY

- Cast iron angle screw down non-return valve to the JIS marine valve series
- Hydrostatic shell, seat and non-return seat test before despatch
- Bronze or stainless steel disc and seat, renewable
- Non asbestos packing and gasket materials
- Manufactured under Lloyds Register, DNV GL, Bureau Veritas, Korean Register and ABS approvals
- Class certification and name plate marking supplied against order

INSTALLATION AND OPERATION

- Install with the inlet below the disc so the flow arrow on the body points with the flow
- The valve will not check if it is fitted the wrong way round
- Bolt up with a full face gasket suited to the flange rating
- Support the adjacent pipework so the valve carries no pipe load
- Open and close with the handwheel only, never with a bar or wrench
- Cast iron is brittle, protect the valve from impact and from freezing

COMPANY

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