# CS ANGLE JIS 20K SDNR ABS APPROVED

Screw Down Non-Return Angle Valve · Cast Steel Body · JIS 20K Flanged · Marine Pattern

BRAND: JINHU ENGINEERING | SKU: p-0014 | SIZE 1.1/4" TO 6" | JIS 20K



FIG. 1 | CS ANGLE VALVE JIS 20K, SDNR TYPE

## PRODUCT OVERVIEW

The Jinhu CS Angle Valve JIS 20K is a screw down non-return (SDNR) angle valve for higher pressure marine and industrial piping. It combines isolation and non-return duty in one body: with the handwheel open, the loose disc lifts under forward flow and drops back onto its seat when flow stops or reverses. Screwing the stem down holds the disc closed for positive shut-off.

The body and bonnet are cast steel with an outside screw and yoke, bolted bonnet and rising stem. The 90° angle pattern replaces an elbow and a straight valve, saving space and fittings. Flanges are drilled to JIS 20K, and the valve is offered with ABS class approval for shipboard service.

| | |
|---|---|
| Valve type | **Angle, screw down non-return** |
| Operation | **Manual, handwheel** |
| Body material | **Cast steel, SC480** |
| End connection | **Flanged, JIS B 2220 20K** |
| Class approval | **ABS** |
| Size range | **1.1/4" to 6" (32A to 150A)** |

## TECHNICAL SPECIFICATION

| | | | |
|---|---|---|---|
| Design standard | **JIS F 7474** | Nominal pressure | **JIS 20K** |
| Flange drilling | **JIS B 2220 20K** | Shell test | **5.0 MPa (51 kgf/cm²)** |
| Flange face | **Raised face** | Seat test | **3.67 MPa (37.4 kgf/cm²)** |
| Stem | **Rising, outside screw and yoke** | Non-return seat test | **0.98 MPa (10 kgf/cm²)** |
| Bonnet | **Bolted** | Max. temperature | **+400°C (steam)** |
| Trim | **Bronze or stainless steel** | Country of origin | **Korea** |

## BILL OF MATERIALS

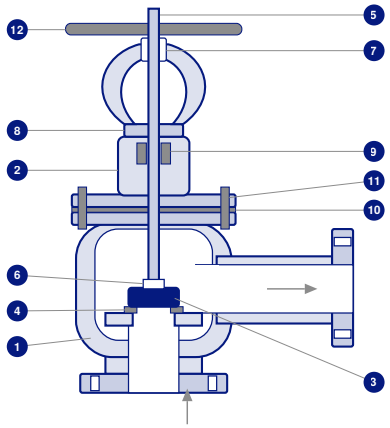



FIG. 2 | SECTIONAL ARRANGEMENT, FLOW UP AND OUT

| # | COMPONENT | MATERIAL |
|---|---|---|
| 1 | Body | Cast steel, JIS G 5101 SC480 |
| 2 | Bonnet | Cast steel, JIS G 5101 SC480 |
| 3 | Disc (non-return, loose) | Bronze or stainless steel |
| 4 | Body seat | Bronze or stainless steel |
| 5 | Stem | Brass or stainless steel |
| 6 | Disc gland | Bronze or stainless steel |
| 7 | Yoke bush | Bronze |
| 8 | Packing gland | Bronze |
| 9 | Gland packing | Non-asbestos |
| 10 | Bonnet gasket | Non-asbestos |
| 11 | Bonnet bolt and nut | Rolled steel |
| 12 | Handwheel | Cast iron |

Trim (disc, seat, stem) is supplied in bronze or stainless steel to suit the service. Confirm trim at order stage. Material certificates and ABS certificate supplied on request.

## DIMENSIONS AND WEIGHTS

| SIZE | JIS | L (MM) | H (MM) | D (MM) | C (MM) | BOLT HOLES N X ØH | WEIGHT (KG) |
|---|---|---|---|---|---|---|---|
| **1.1/4"** | 32A | 100 | 240 | 135 | 100 | 4 x 19 | 13.0 |
| **1.1/2"** | 40A | 110 | 255 | 140 | 105 | 4 x 19 | 15.1 |
| **2"** | 50A | 125 | 270 | 155 | 120 | 8 x 19 | 19.9 |
| **2.1/2"** | 65A | 135 | 295 | 175 | 140 | 8 x 19 | 26.7 |
| **3"** | 80A | 150 | 325 | 200 | 160 | 8 x 23 | 38.8 |
| **4"** | 100A | 170 | 365 | 225 | 185 | 8 x 23 | 54.2 |
| **5"** | 125A | 200 | 415 | 270 | 225 | 8 x 25 | 83.0 |
| **6"** | 150A | 225 | 460 | 305 | 260 | 12 x 25 | 115.0 |

L = centre to flange face, H = centreline to top of stem, valve open, D = flange outside diameter, C = bolt circle diameter, n x Øh = number and diameter of bolt holes, JIS 20K. Dimensions and weights are nominal, to JIS F 7474, and are given for guidance only. Certified drawings for the supplied make and size are issued on request. 8" and 10" (200A, 250A) can be offered against enquiry.

## ORDERING INFORMATION

| FIELD | OPTIONS |
|---|---|
| Product code | p-0014 |
| Size | 1.1/4", 1.1/2", 2", 2.1/2", 3", 4", 5", 6" |
| Rating | JIS 20K |
| Trim | Bronze or stainless steel |
| Certification | ABS certificate on request |
| Order example | **p-0014 / 2" (50A) / JIS 20K / SS TRIM / ABS** |

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

## PRESSURE AND TEMPERATURE

| | |
|---|---|
| Non-shock water, to +120°C | **3.33 MPa (34 kgf/cm²)** |
| Air, gas, oil, pulsating water | **3.04 MPa (31 kgf/cm²)** |
| Steam, to +220°C | **3.04 MPa (31 kgf/cm²)** |
| Steam, +400°C | **2.26 MPa (23 kgf/cm²)** |

Maximum working pressures per the manufacturer catalogue for JIS cast steel valves. Intermediate steam ratings: consult SWBM. Ratings apply to the flanged body, not to the connecting pipework.

## TYPICAL APPLICATIONS

- Ship engine room and machinery space piping
- Ballast, bilge and general service lines
- Fuel oil and lubricating oil systems
- Steam, condensate and feed water lines
- Fresh water and sea water cooling systems
- Offshore and industrial process piping

## COMPLIANCE AND QUALITY

- Design to JIS F 7474, cast steel 20K SDNR angle valve
- Flanges drilled to JIS B 2220 20K
- ABS class approval for marine service
- Shell, seat and non-return seat tested before despatch
- Cast steel body and bonnet, JIS G 5101 SC480
- Body marked with rating, size and flow direction
- Material certificates on request

## INSTALLATION AND OPERATION

- Install with the flow arrow on the body pointing in the direction of flow
- Flow enters under the disc. Do not install the valve inverted
- Flush the line before installation to clear scale and weld slag
- Tighten flange bolts evenly in a crosswise sequence
- Turn the handwheel clockwise to close. Open fully to allow non-return action
- Adjust the gland nuts evenly if minor stem leakage appears

COMPANY

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