# AV-290 Cast Carbon Steel Swing Check Valve, Flanged Ends, Class-150

IBR Approved

## Features

| | |
|---|---|
| Product Standard | BS-1868 |
| Testing Standard | API-598 |
| Pressure / Class Rating | Class-150 |
| Body Material Cum Standard | Cast Carbon Steel (ASTM A216 Gr. WCB) |
| Product Description | Bolted Cover |
| Type of Seat | Renewable Seat |
| Trim | 13% Cr. (SS 410) |
| End Details | Flanged Ends as per ASME B16.5 Class-150 Raised Face (Drilled) |
| Test Pressure | Body: 30 Bar (Hyd.), Seat: 22 Bar (Hyd.) |
| Max. Working Temperature | 425°C |



Notes

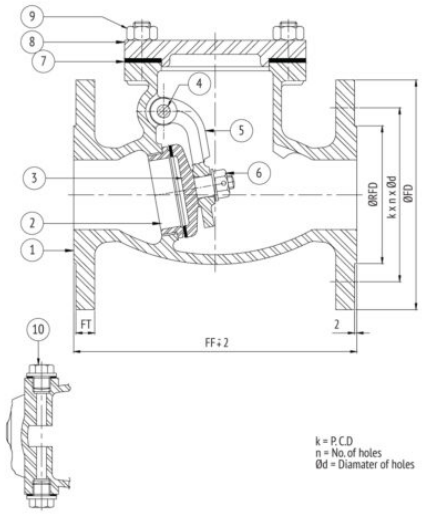
Test Certificate in Form III-C as per IBR is furnished with every supply.
Other trim material combinations are available on request.

**Suitability**
Water, Steam, Oil

## Material Combination

| P.No. | Name of Part | Material | Specification | Nos. |
|---|---|---|---|---|
| 1 | Body | C.C.S | ASTM A216 Gr. WCB | 1 |
| 2 | Body Seat Ring | S.S./ F.S.S./ C.C.S. | ASTM A276 TYPE 410/ ASTM A182 Gr. F6a/ ASTM A216 Gr. WCB + 13% Cr. Welded Deposit | 2 |
| 3 | Disc | S.S / C.C.S. | ASTM A276 Type 410 / ASTM A216 Gr. WCB + 13% Cr. Deposit | 1 |
| 4 | Hinge Pin | S.S. | ASTM A276 TYPE 410 | 1 |
| 5 | Hinge | C.C.S. | ASTM A216 Gr. WCB | 1 |
| 6 | Nut | S.S. | – | 1 |
| 7 | Gasket | – | Spiral Wound S.S. 304 with Graphoil Filler | 1 |
| 8 | Cover | C.C.S. | ASTM A216 Gr. WCB | 1 |
| 9 | Stud & Nuts | Alloy Steel/ H.T. Steel | ASTM A193 Gr. B7/ ASTM A194 Gr. 2H | To Suit |
| 10 | Side Plug | S.S. | ASTM A276 TYPE 410 | 2 |

NOTE : 1. This item can be supplied in WC6, WC9 material also.




## Dimensional Data

| Nominal Size (mm) | FF | FT | ØRFD | ØFD | K | n | Ød |
|---|---|---|---|---|---|---|---|
| 15 | 108 | 7.9 | 35.1 | 89 | 60.5 | 4 | 5/8″ |
| 20 | 117 | 8.6 | 42.9 | 99 | 69.8 | 4 | 5/8″ |
| 25 | 127 | 9.7 | 50.8 | 108 | 79.4 | 4 | 5/8″ |
| 40 | 165 | 12.7 | 73.0 | 127 | 98.6 | 4 | 5/8″ |
| 50 | 203 | 14.2 | 91.9 | 152 | 120.6 | 4 | 3/4″ |
| 65 | 216 | 15.7 | 104.6 | 178 | 139.7 | 4 | 3/4″ |
| 80 | 241 | 17.5 | 127.0 | 190 | 152.4 | 4 | 3/4″ |
| 100 | 292 | 22.4 | 157.2 | 229 | 190.5 | 8 | 3/4″ |
| 125 | 330 | 22.5 | 185.7 | 254 | 215.9 | 8 | 7/8″ |
| 150 | 356 | 23.9 | 215.9 | 279 | 241.3 | 8 | 7/8″ |
| 200 | 495 | 26.9 | 269.7 | 343 | 298.4 | 8 | 7/8″ |
| 250 | 622 | 28.4 | 323.8 | 406 | 362.0 | 12 | 1″ |
| 300 | 698+-3 | 30.2 | 381.0 | 483 | 431.8 | 12 | 1″ |
| 350 | 787+-3 | 33.3 | 412.8 | 533 | 476.2 | 12 | 1.1/8″ |
| 400 | 864+-3 | 35.1 | 469.9 | 597 | 539.8 | 16 | 1.1/8″ |
| 450 | 978+-3 | 38.1 | 533.4 | 635 | 577.8 | 16 | 1.1/4″ |
| 500 | 978+-3 | 41.1 | 584.2 | 698 | 635.0 | 20 | 1.1/4″ |
| 600 | 1295+-3 | 46.0 | 692.2 | 813 | 749.3 | 20 | 1.3/8″ |

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k – P.C.D; n – Number of Holes;  Ød – Diameter of Holes

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