

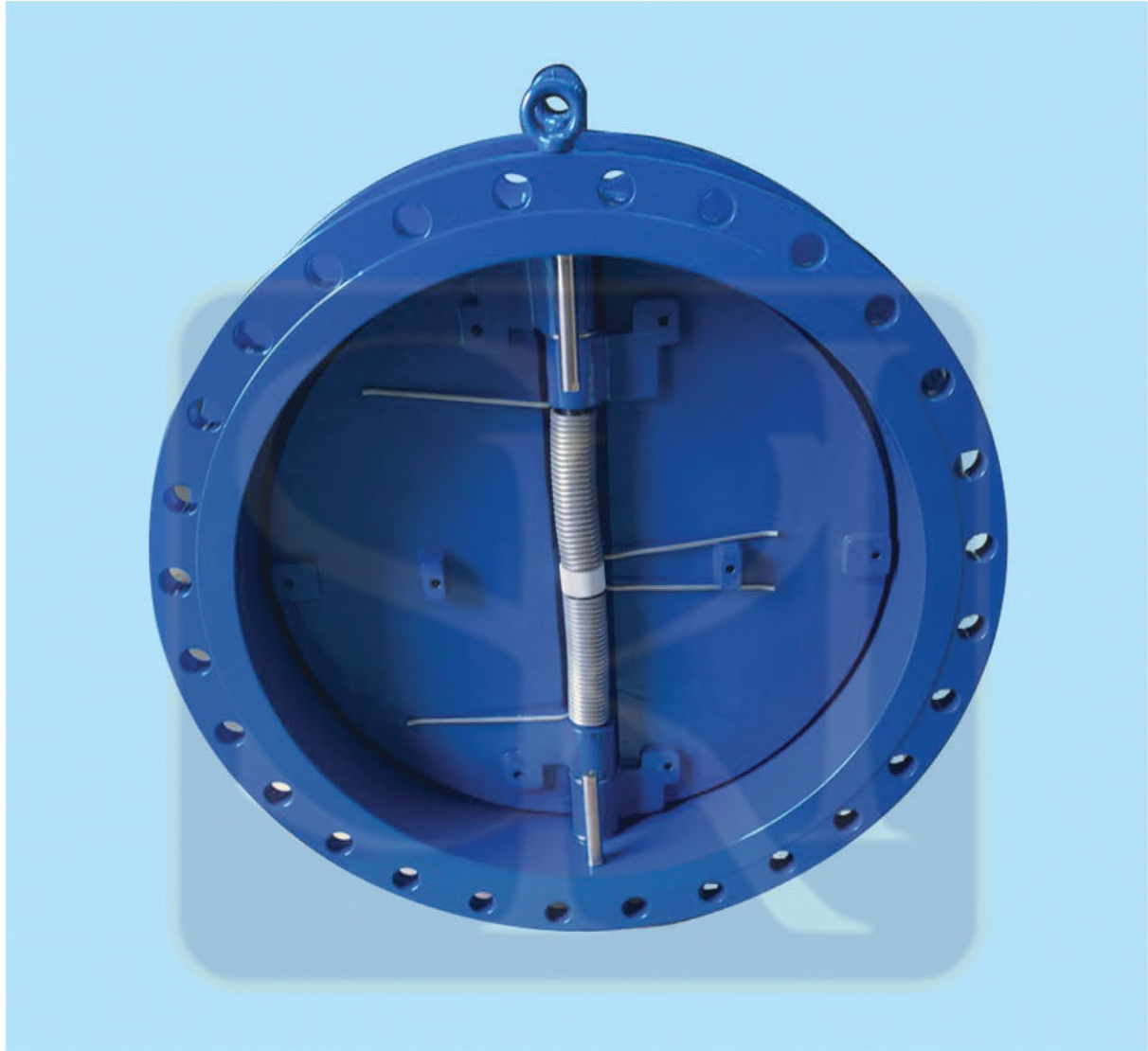
# INFRA VALVE

## Dual Plate Check Valve

PN 10 , PN 16 & PN 25 Rating

Class 150 & Class 300

DN 50 - 2000 mm.



*Innovative Flow Control Solution*



## Shree Krishna Industries

Manufacturers of all types of valves & fittings

An ISO 9001/14001/45001 Company

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# Valve Dimensions And Materials Specifications



INFRA VALVE

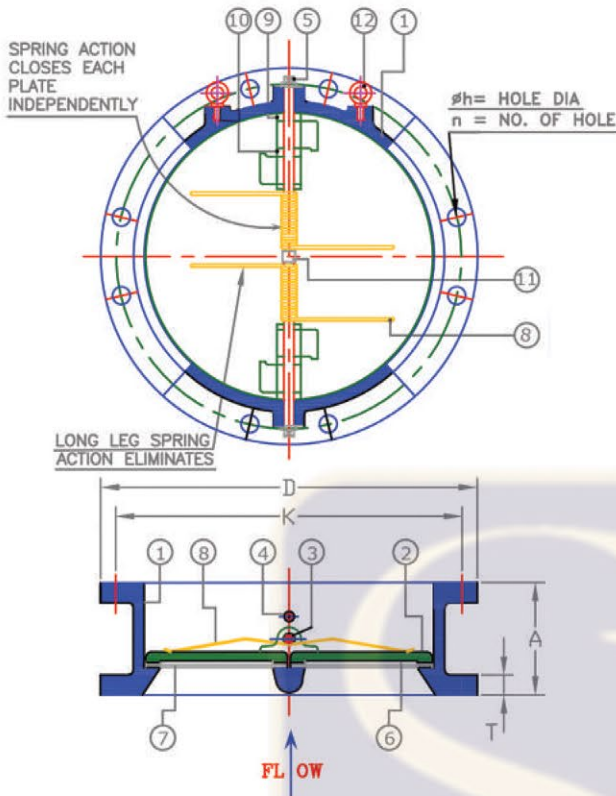
WRAS APPROVED PRODUCT

## Technical Requirements

- Designed & manufactured according to standard of API 594
- Face to face dimensions are according to API 594 also available as per BS 5155 & ISO 5752 (Long Pattern)
- The flange of the check valve is according to PN 10bar flange of BS 4504-1989 & BS EN 1092-2 also available as per ANSI B16.5 / IS 1538 Part 6 / ISO 7005
- Testing & Inspection is according to standard of API 598

## Design Features

- Flexibility in installation i.e., the valve can be installed in any position vertical or horizontal
- Positive closer is ensured by double spring action
- No water hammer since closing of the valve disc does not depend on back pressure and back flow
- Both metal to metal and resilient sealing is available
- Non slam characteristic is achieved due to spring assisted closing at zero flow before back flow begins and also as the disc plates starts closing the flow as such acts as a cushion and thus slamming is negligible.
- All cast components are fully protected from corrosion by electro-statically applying epoxy powder or liquid epoxy paint with a minimum DFT 250microns.
- Body, disk in ductile iron / cast steel giving excellent strength performance .
- Wafer end valves are also available on request.
- Drip tight resilient seat



N.B : When installed in the horizontal position, the door hinge shaft must be in the vertical position for proper operation

## MATERIALS SPECIFICATION

| MATL.                   | Body (1)<br>Disc (2) / Pla  | Hinge Pin (3)<br>Stop Pin (4)   | Plug/ Retainer (5)  | Disc Seat/Seal (6)  | Body Seat (7)  | Spring (8)                                      | Body, Disc &<br>Spring Bearing<br>(9, 10 & 11) | Lifting<br>Hook (12)      |
|-------------------------|---|---|---|---|--|---|--|---------------------------|
| DUCTILE<br>IRON         | Ductile Iron to<br>DIN 1693 Gr. GGG-40<br>& GGG-50 or<br>IS 1865 Gr. 400/15<br>& Gr. 500/7 or | Stainless steel to<br>BS -970 (Part-1)<br>Gr. 410S21/304S15/<br>431S29/316S31 or<br>13% Cr. Steel   | Stainless Steel to<br>AISI-410/304 &<br>13% Cr. Steel or<br>Givd. Steel | Stainless steel to<br>BS 970 Gr.304S15,<br>AISI-304/AISI-316<br>13% Cr. Steel or<br>EPDM/Nitrile/Viton-A<br>Buna-N Rubber | Stainless steel to<br>BS 970<br>Gr. 304S15 or<br>AISI-304/316<br>13% Cr. Steel | SS 304/<br>SS 316 or<br>Inconel<br>X-750        | Gun Metal /<br>S.S. / Telfon                   | Steel                     |
| CAST<br>CARBON<br>STEEL | Cast Carbon Steel to<br>ASTM A216 Gr. WCB<br>or<br>BS 1504-161-480                            | Stainless Steel to<br>BS-970 (Part-1)<br>Gr. 431S29/304S15<br>or 13% Cr. Steel/<br>AISI-410/304/316 | Stainless Steel to<br>AISI-410/304 &<br>13% Cr. Steel or<br>Givd. Steel | Stainless steel to<br>BS 970 Gr.304S15,<br>AISI-304/AISI-316  | Stainless steel to<br>BS 970<br>Gr. 304S15 or<br>AISI-304/316<br>13% Cr. Steel | SS 304/<br>SS 316 or<br>Spring Steel<br>BS EN43 | S.S. / Telfon                                  | Forged<br>Carbon<br>Steel |

| NOMINAL PRESSURE         |      | PN 10       | PN 16       | PN 25         | CL-150        | CL-300        |
|--------------------------|------|-------------|-------------|---------------|---------------|---------------|
| TESTING PRESSURE         | BODY | 15 Kg/Sq.Cm | 24 Kg/Sq.Cm | 37.5 Kg/Sq.Cm | 30 Kg/Sq.Cm   | 78 Kg/Sq.Cm   |
|                          | SEAT | 10 Kg/Sq.Cm | 16 Kg/Sq.Cm | 25 Kg/Sq.Cm   | 22 Kg/Sq.Cm   | 56 Kg/Sq.Cm   |
| WORKING PRESSURE         |      | 10 Kg/Sq.Cm | 16 Kg/Sq.Cm | 25 Kg/Sq.Cm   | 22 Kg/Sq.Cm   | 56 Kg/Sq.Cm   |
| SUITABLE TEMPERATURE (C) |      |             |             |               | -10°C to 90°C | -10°C to 90°C |

(\*) Face to face dimensions are as per manufacturer's standard

ALL DIMENSIONS ARE IN MM

| Rating         | Nominal Dia         | 50  | 80  | 100 | 125  | 150 | 200 | 250 | 300  | 350 | 400 | 450 | 500 | 600 | 700  | 750 | 800  | 900  | 1000 | 1100 | 1200 |
|----------------|---------------------|-----|-----|-----|------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|------|------|------|------|------|
| PN 10/ANSI 125 | Face to face<br>(A) | 54  | 67  | 67  | 83   | 95  | 127 | 140 | 181  | 184 | 191 | 203 | 213 | 222 | 305* | 305 | 356* | 368  | 406* | 432* | 524  |
| PN 16/ANSI 150 |                     | 60  | 73  | 73  | 86   | 98  | 127 | 146 | 181  | 184 | 191 | 203 | 219 | 222 | 305* | 305 | 356* | 368  | 406* | 432* | 524  |
| PN 25/ANSI 300 |                     | 60  | 73  | 73  | 86   | 98  | 127 | 146 | 181  | 222 | 232 | 264 | 292 | 318 | -    | 368 | -    | 483  | -    | 568* | 629  |
| Flange dia     |                     | 165 | 200 | 220 | 250  | 285 | 340 | 395 | 445  | 505 | 565 | 615 | 670 | 780 | 895  | 960 | 1015 | 1115 | 1230 | 1340 | 1455 |
| Flange P.C.D.  | ( D )               | 125 | 160 | 180 | 210  | 240 | 295 | 350 | 400  | 460 | 515 | 565 | 620 | 725 | 840  | 900 | 950  | 1050 | 1160 | 1270 | 1380 |
| Flange Thk     | ( K )               | 19  | 21  | 22  | 22.5 | 23  | 24  | 26  | 27.5 | 29  | 30  | 32  | 33  | 36  | 38.5 | 40  | 42   | 44   | 47   | 48.5 | 53   |
| hole dia       | ( t )               | 19  | 19  | 19  | 19   | 23  | 23  | 23  | 23   | 23  | 28  | 28  | 28  | 31  | 31   | 31  | 34   | 34   | 37   | 37   | 40   |
| No. hole       | ( h )               | 4   | 4   | 8   | 8    | 8   | 8   | 12  | 12   | 16  | 16  | 20  | 20  | 20  | 24   | 24  | 24   | 28   | 28   | 32   | 32   |
| Weight (± Kg)  | ( n )               | 7   | 11  | 13  | 18   | 25  | 43  | 60  | 105  | 120 | 170 | 190 | 220 | 295 | 520  | 580 | 690  | 810  | 1400 | 1400 | 2100 |

NOTES : Higher sizes / dimensions on request

WE RESERVE THE RIGHT TO MAKE CHANGES DUE TO TECHNICAL UPGRADATION