

# RUBBER FLAPPER CHECK VALVES

## FEATURES

These rubber flapper check valves are manufactured and tested in accordance with MSS-SP-71 class 250 and EN 12334 PN 16.

The unique design creates an elastic spring effort to close-against the flow, combined with the tilted body seat (closing angle 35°) act to reduce the closing time, minimize the water hammer and flow reversal. The simplicity in design include three components (Body, Disc & Cover) in one valve, and the disc, hinge and pin are integral in one piece complete with fully special rubber.

Flange drillings are to suit: ANSI B16.1, EN 1092, BS10, ANSI B16.5, AS 2129 and JIS. The valve will operate *trouble free for a longer period* compared to conventional check valves.

## OPTIONS

- Proximity Switch
- Backflow Actuator
- Oil Dash-Pot
- Air Release Plug on the Cover

## TECHNICAL DATA

- Code: VCRF-(size DN)E
- Size Range: DN50 – DN600

## DIMENSIONS

| SIZE (DN) | L    | ANSI B16.1 CL 125 |     |    |                |        |
|-----------|------|-------------------|-----|----|----------------|--------|
|           |      | ØD                | ØC  | Øh | N (Bolt Holes) | T (mm) |
| 50        | 203  | 152               | 120 | 20 | 4              | 16     |
| 80        | 241  | 191               | 152 | 20 | 4              | 20     |
| 100       | 292  | 229               | 191 | 20 | 8              | 24     |
| 150       | 381  | 279               | 241 | 22 | 8              | 25     |
| 200       | 495  | 343               | 298 | 22 | 8              | 29     |
| 250       | 622  | 406               | 362 | 25 | 12             | 30     |
| 300       | 699  | 483               | 431 | 25 | 12             | 32     |
| 350       | 787  | 533               | 476 | 29 | 12             | 35     |
| 400       | 813  | 597               | 540 | 29 | 16             | 37     |
| 450       | 956  | 635               | 578 | 32 | 16             | 40     |
| 500       | 1067 | 699               | 635 | 32 | 20             | 18     |
| 600       | 1219 | 813               | 750 | 35 | 20             | 48     |



## MATERIAL

| No. | PARTS             | MATERIAL          | ASTM DESIGNATION    | BS SPEC             |
|-----|-------------------|-------------------|---------------------|---------------------|
| 1   | Body              | Ductile Iron      | A536 Grade 65-45-12 | EN1563-EN-GJS-500-7 |
| 2   | Disc              | Steel & Rubber    | A36 & D2000 AA7008  | 1506 & 2494         |
| 3   | Cover             | Ductile Iron      | A536 Grade 65-45-12 | EN1563-EN-GJS-500-7 |
| 4   | Cover Bolt        | Zinc Coated Steel | A 307 Grade B       | 4882                |
| 5   | Cover Gasket      | Rubber EPDM/NBR   | D 2000 AA7008       | 2494                |
| 6   | Plug              | Malleable Iron    | A 47                | -                   |
| 7   | Backflow Actuator | -                 | -                   | -                   |