

Cast Steel Horizontal Lift Check Valve

**FOR STEAM AND THERMIC FLUID
CONFORMING TO BS : 5160 /
DIN 2401 PN-40**

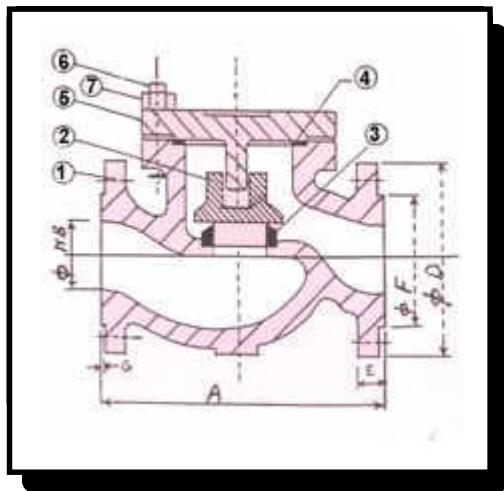
RAHTRIA Cast Steel Horizontal Lift Check Valve is designed to work under varied conditions. RASHTRIA Cast Steel Horizontal Lift Check Valve to BS-5160/DIN 2401. PN-40 13% Cr. S.S. (AISI-410) trim. Bolted Bonnet Integral flanges as per BS-4504, Part 1 Table 40/1/DIN 2545, PN 40 raised face, drilled Body tested to 60 bar and seat tested to 40 bar hydraulic pressure.

DESIGN FEATURES

1. Stream lined full flow area is provided to minimise pressure drop in the body.
2. Renewable S.S. 13% S.S. (AISI-410) body seat ring and disc facing ring have at least 50 HB difference in Hardness.
3. Bolted body cover joint.
4. Self aligning fully guided disc ensures proper seating of valve disc on body seat ring.

| Nominal Pressure PN | Standard No (Pressure) | Maximum permissible gauge Working Pressure at Temperature °C | | | | | | |
|---------------------|-----------------------------------|--|-----|-----|-----|-----|-----|-----|
| | | 10 to120 | 200 | 250 | 300 | 350 | 400 | 425 |
| 40 | BS : 5160 (bar) * | 40 | 40 | 38 | 33 | 28 | 23 | 20 |
| | DIN 2401 (kg./cm ² g.) | 40 | 35 | 32 | 28 | 24 | 21 | -- |

*1 bar=1.01972 Kg/cm²



| DIMENSIONS IN MILLIMETERS | | | | | | | | |
|---------------------------|-----|-----|----|-----|---|-----|----------|----------|
| NB | A | D | E | F | G | PCD | HOLE DIA | HOLE NOs |
| 15 | 130 | 95 | 16 | 45 | 2 | 65 | 14 | 4 |
| 20 | 150 | 105 | 18 | 58 | 2 | 75 | 14 | 4 |
| 25 | 160 | 115 | 18 | 68 | 2 | 85 | 14 | 4 |
| 32 | 180 | 140 | 18 | 78 | 2 | 100 | 18 | 4 |
| 40 | 200 | 150 | 18 | 88 | 3 | 110 | 18 | 4 |
| 50 | 230 | 165 | 20 | 102 | 3 | 125 | 18 | 4 |
| 65 | 290 | 185 | 22 | 122 | 3 | 145 | 18 | 8 |
| 80 | 310 | 200 | 24 | 138 | 3 | 160 | 18 | 8 |
| 100 | 350 | 235 | 24 | 162 | 3 | 190 | 22 | 8 |
| 125 | 400 | 270 | 26 | 188 | 3 | 220 | 26 | 8 |
| 150 | 480 | 300 | 28 | 218 | 3 | 250 | 26 | 8 |
| 200 | 600 | 375 | 34 | 285 | 3 | 320 | 30 | 12 |

Face to face dimensions **A** conforms to BS:5160 (Long Series)

Flanges as per BS : 4504 Part1 Table 40/1 which are identical to DIN 2545 PN 40

| TEST PRESSURE | |
|---------------------------|---------------------------|
| HYDROSTATIC | |
| BODY | BACKSEAT |
| 64 Kg/cm ² (g) | 40 Kg/cm ² (g) |

MATERIAL

| S. NO. | PARTNAME | MATERIAL |
|--------|----------------|-----------------------------------|
| 1. | BODY | C.S. ASTM A 216 GR. W.C.B. |
| 2. | DISC | STAINLESS STEEL AISI-410 |
| 3. | BODY SEAT RING | STAINLESS STEEL AISI-410 |
| 4. | GASKET | SPIRAL WOUND S.S. ASBESTOS FILLED |
| 5. | BONNET / YOKE | CAST STEEL ASTM A 216 GR. W.C.B. |
| 6. | STUD | CARBON STEEL |
| 7. | STUD NUT | CARBON STEEL |

SCALE : N.T.S.

| Cast Steel Horizontal Lift Check Valve | | | |
|---|----------|----------|------|
| | | Name | Date |
| | | Traced | |
| | | Drawn | |
| Cat. No. | CSHC 603 | Compared | |
| Drg. No. | 603 | Checked | |
| Material | | Approved | |
| Rashtria Metal & Steel Inds.(Regd) Jalandhar - 144 004 (India) | | | |

Due to Continuous development , modifications are made by our Engineering Dept. Design & Data are subject to change without notice to give you a Better Product.