SINCE 1955

ISO 9001:2015 & ISO 14001:2015 CERTIFIED

# CS-22 Cast Steel Spring Loaded Full Lift Single Post Safety Valve

## Description

- NETA Cast Steel Spring Loaded, Full Lift, Single Post Safety Valve
- S.S. 13% Cr. AISI-410 + ST.6 Seat and Body Ring and S.S. 13% Cr. (AISI-410) Stem
- Inlet Flange End as per ASME B16.5 Class-300 Raised Face
- Outlet Flange End as per ASME B16.5 Class-150 Raised Face

## Test Pressure

Max. BOP : 250 PSIG
Max. Working Temperature : 400°C
Test Pressure : 500 PSIG(Hyd.)

## Design Features

- Full lift is achieved by rapid opening within an over pressure of 5% of the Set Pressure.
- Each safety Valve is provided with an easing lever.
- To avoid unauthorised alteration of set pressure each Valve is provided with adjusting screw and checknut, concealed under a cap with Pad Lock.

## Certification

IBR Test Certificate in FORM III-C duly signed by the Director of Boilers, Punjab is provided.

## Application : Steam

## HSN : 84818010

## Materials

| PNo. | Part | Nos. | Material | Standard |
|---|---|---|---|---|
| 1 | Cap | 1 | C.I. | IBR 86 to 93 Gr.A |
| 2 | Locking Pin | 1 | Bronze | IBR 282(a)(iv) Gr.B |
| 3 | Stem | 1 | S.S. 13% Cr. | AISI – 410 |
| 4 | Adjusting Screw | 1 | Bronze | IBR 282(a)(iv) Gr.B |
| 5 | Easing Lever | 1 | Cast Iron | IBR 86 to 93 Gr.A |
| 6 | Gasket | 1 | Spiral Wound S.S. 304 Graphoil Filler with Inner Ring | – |
| 7 | Disc Guide | 1 | Bronze | IBR 282(a)(iv) Gr.B |
| 8 | Locking Screw | 1 | M.S. | IS:1367 |
| 9 | Blow Down Ring | 1 | Bronze | IBR 282(a)(iv) Gr.B |
| 10 | Body Seat Ring | 1 | S.S. 13% Cr./Monel | AISI – 410/ Ni.Cu.Alloy |
| 11 | Body | 1 | Cast Steel | ASTM A216 Gr. WCB |
| 12 | Pad Lock | 1 | M.S. | – |
| 13 | Check Nut | 1 | Bronze | IBR 282(a)(iv) Gr.B |
| 14 | Bush | 1 | Bronze | IBR 282(a)(iv) Gr.B |
| 15 | Upper Spring Disc | 1 | M.S./ S.S. 13% Cr. | IS:1367/ AISI-410 |
| 16 | Spring | 1 | Carbon Steel | IBR-307 (a) |
| 17 | Spring Chamber | 1 | Cast Steel | ASTM A216 Gr.WCB |
| 18 | Lower Spring Disc | 1 | M.S. / S.S. 13% Cr. | IS:1367/AISI-410 |
| 19 | Nuts & Studs | To Suit | M.S. | IS:1367 |
| 20 | Disc | 1 | S.S. 13% Cr. / Monel | AISI – 410 / Ni.Cu.Alloy |

## Dimensions

| Nominal Size (mm) | A±1 | B | C(MIN.) | A'±1 | C'(MIN.) | F±3 | G±3 | H |
|---|---|---|---|---|---|---|---|---|
| 25 | 124 | 25 | 18 | 110 | 16 | 90 | 108 | 283 |
| 40 | 156 | 40 | 22 | 127 | 18 | 102 | 120 | 343 |

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| Nominal Size (mm) | A±1 | B | C(MIN.) | A'±1 | C'(MIN.) | F±3 | G±3 | H |
|---|---|---|---|---|---|---|---|---|
| 50 | 165 | 50 | 24 | 152 | 20 | 121 | 140 | 407 |
| 65 | 190.5 | 65 | 26 | 178 | 22 | 135 | 152 | 483 |
| 80 | 210 | 80 | 30 | 190.5 | 24 | 160 | 178 | 550 |
| 100 | 255 | 100 | 32 | 230 | 26 | 186 | 190 | 637 |