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Strainer Fig. 32

Description:

FIG. 32 Strainers are available in Cast Iron/Cast Steel with stainless steel screen having 0.8 mm dia perforations as standard.

Available Sizes and Pipe Connections:

C.I. Fig. 32 Strainer - NB 40, 50, 80, 100, 150 & 200.

C.S. Fig. 32 Strainer - NB 40,50, 80, 100, 150, 200, 250,300

Note: 1) For flanged strainers available in specific size/ type of strainer, please refer table 1 &2.

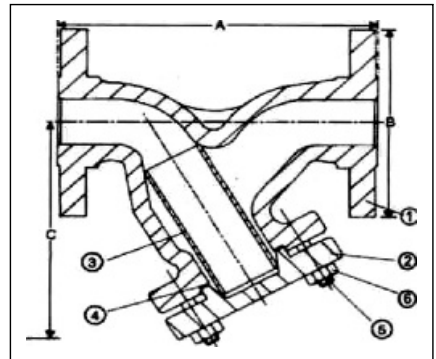
2) Also available with IBR certificate on request.

Limiting Conditions:

| | | | | |
|-----------|--------------------------|-------------------------|-------------------------|------------------------|
| PMO & TMO | Cast Steel Strainer NIBR | Cast Steel Strainer IBR | Cast Iron Strainer NIBR | Cast Iron Strainer IBR |
| | As per flange rating | Refer table 2 overleaf | Refer table 3 overleaf | |

Materials:

| Sr. | Part | Material | Standard |
|-----|--------|-------------------------------|-----------------------------------|
| 1 | Body | Cast Iron Cast Steel | IS 210 FG 260 ASTMA216 Gr. WCB |
| 2 | Cap | Cast Iron Cast Steel | IS 210 FG 260 ASTMA216Gr. WCB |
| 3 | Screen | Stainless Steel Type | ASTM A - 240 |
| 4 | Gasket | Asbestos Free Synthetic fibre | |
| 5 | Stud | Carbon Steel | IS 1367 |
| 6 | Nut | Carbon Steel | HT IS 1367 Gr. B |



8.4

TABLE 1 C.S. FIG. 32 STRAINER
 Dimensions: (approx) mm.

| DIM SIZE | A | B | | | | | | | | | | | C | |
|-------------|-----|----------|-------|-------|-------|-------|-------|-------|-------|----------|-----|-----|-----|-----|
| | | BS Table | | | | | ANSI | | | DIN - ND | | | | |
| NB | | F | H | J | K | R | 150 | 300 | 600 | 10 | 16 | 25 | 40 | |
| 40 | 235 | - | 140 | - | 152 | 152 | 127 | 155 | 156 | 150 | 150 | 150 | 150 | 187 |
| 50 | 254 | - | 165 | - | 165 | | 152 | 165 | - | 165 | 165 | 165 | 165 | 203 |
| 80 | 330 | 203 | 203 | 203 | 203 | 203 | 190 | 210 | - | 200 | 200 | 200 | 200 | 245 |
| 100 | 381 | - | - | - | 241 | | 229 | 254 | - | 220 | 220 | 235 | 235 | 299 |
| 150 | 540 | - | 304.8 | 304.8 | 304.8 | 304.8 | 279.4 | 317.4 | 355.6 | 285 | 285 | 300 | 300 | 370 |
| 200 | 68 | - | 368.3 | 368.3 | 368.3 | 368.3 | 343 | 381 | 419.1 | 340 | 340 | 360 | 375 | 470 |
| 250 | 813 | - | - | - | 431.8 | - | 406.4 | 444.5 | 508 | 395 | 405 | 425 | 450 | 650 |
| 300 | 894 | - | 489 | 489 | 489 | 508 | 482.6 | 520.7 | | 445 | 460 | 485 | 515 | 800 |

8.4.5

TABLE 2 PRESSURE RATING IN kg/cm² FOR IBR C.S. FIG. 32 STRAINER

| Flange Type | Max Working Pressure kg/cm ² | Temperature Deg C |
|---------------|---|-------------------|
| BS 10 Table F | 10.5 | 427 |
| BS 10 Table H | 17.5 | 427 |
| BS 10 Table J | 24.6 | 427 |
| BS 10 Table K | 31.6 | 427 |
| BS 10 Table R | 42 | 427 |
| ASA - 150 | 10.5 | 280 |
| ASA- 300 | 28 | 427 |
| ASA - 600 | 42 | 427 |
| DIN ND-10 | 7 | 400 |
| DIN ND-16 | 11.5 | 400 |
| DIN ND-25 | 20 | 400 |
| DIN ND-40 | 30 | 400 |

Refer Table 1 for Product availability

TABLE 3 PRESSURE RATING IN kg/cm² AT 220⁰C FOR IBR C.I. FIG. 32 STRAINER

| Flange Type | Size | | | | | |
|---------------|-------|-------|-------|--------|-------|--------|
| | 40 NB | 50 NB | 80 NB | 100 NB | 150NB | 200 NB |
| BS 10 Table F | 10.5 | 10.5 | 10.5 | 13.0 | 10.5 | 10.5 |
| ASA- 150 | 10.5 | 10.5 | 10.5 | 10.5 | 13.0 | 13.0 |
| DINND- 16 | 10.5 | 10.5 | 10.5 | 13.0 | 13.0 | 13.0 |

TABLE 4 C.I. FIG. 32 STRAINER

Dimensions: (approx) mm

| DIM SIZE ↕ | A | B | | | | C |
|---------------|-----|----------|------|-------|-------|-----|
| | | BS Table | ANSI | DIN | | |
| | | | | ND 10 | ND 16 | |
| NB | | F | 150 | ND 10 | ND 16 | |
| 40 | 230 | 140 | 127 | 150 | 150 | 159 |
| 50 | 242 | 165 | 152 | 165 | 165 | 179 |
| 80 | 298 | 203 | 190 | 200 | 200 | 225 |
| 100 | 348 | 229 | 229 | 220 | 220 | 267 |
| 150 | 484 | 305 | 279 | 285 | 285 | 367 |
| 200 | 604 | 368 | 343 | 340 | 340 | 470 |

* Note: General Tolerance upto 80 NB ± 3, Above 80 NB ± 5

Screen details:

Fitted as standard with S.S. Screen having perforations of 0.8 mm dia. with 3 mm dia. perforated backing. 40,60,100 mesh screen is available as special on request.

How to Specify:

Example: 40 NB SPIRAX MARSHALL
(Size) (Make) C.I. Fig. 32 Strainer Flanged
Table F IBR (M.O.C.) (Strainer type) (End
Connection)

Optional:

15 NB BSPT plug on cover is available on request

Installation:

The arrow on casting indicates flow direction.

Servicing:

With suitable isolation, repairs can be carried out on line. Undo nuts and remove strainer cap. Remove muck and clean screen thoroughly. Fit screen carefully and fit cap with a new gasket. Apply a thin coating of jointing paste. Tighten nuts uniformly. Open up isolation valve. Check for gasket leak if any and tighten.

Available Spares:

Screen and gasket kits are available as spares.