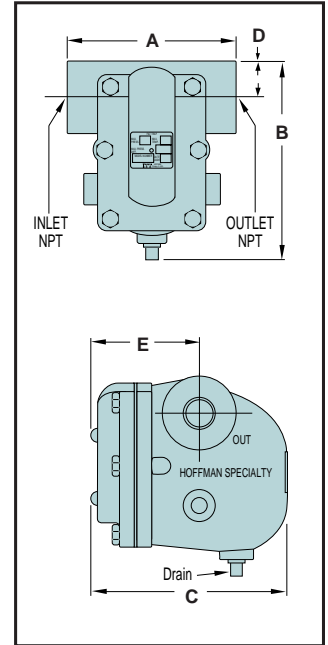


Float and Thermostatic Steam Traps (continued)

**NEW**

Series I In-line **BEAR TRAP®**

- In-line piping design provides complete drainage while minimizing vertical height change
- Ideal for overhead applications
- For commercial and industrial applications such as air make-up coils, cooking kettles and unit heaters
- Sizes available:
  - ¾" (20mm) NPT
  - 1" (25mm) NPT
  - 1¼" (32mm) NPT
- Below condensate level seat design prevents steam leakage
- Stainless steel internal components
- Rugged thermostatic element eliminates air binding
- Resistant to water hammer and corrosion
- Maximum design pressure 250 psig (17.3 bar)
- Maximum operating pressure 175 psig (12.1 bar)
- Maximum temperature 406°F (208°C)



| Materials of Construction |  |
|---------------------------|--|
| Part                      | Specifications                           |
| Body and cover            | Cast Iron 30,000 psi tensile             |
| Valve Pin and Seat        | Stainless Steel (Hardened)               |
| Float                     | Stainless Steel                          |
| Lever Assembly            | Stainless Steel                          |
| Thermostatic Air Vent     | Stainless Steel Cage and Thermal Element |
| Cover Bolts               | Grade 5                                  |

Dimensions in. (mm)

| NPT Size in. (mm) | A        | B                                    | C                                   | D                                   | E       |
|-------------------|----------|--------------------------------------|-------------------------------------|-------------------------------------|---------|
| ¾ (20)            | 5½ (140) | 6 <sup>9</sup> / <sub>16</sub> (167) | 6 <sup>3</sup> / <sub>8</sub> (162) | 1 <sup>3</sup> / <sub>16</sub> (30) | 3½ (89) |
| 1 (25)            |          |                                      |                                     |                                     |         |
| 1¼ (32)           |          |                                      |                                     |                                     |         |

**Series I In-line BEAR TRAP® (continued)**

- Determine the differential pressure across the trap (inlet pressure - outlet pressure). On applications where the steam is controlled by a modulating temperature regulator, the trap differential should be 1/2 psi (0.34 bar).
- Determine the capacity based on the differential pressure and the required capacity of the trap to open against the maximum inlet steam pressure.
- Apply a Safety Factor by multiplying required capacity by 1.5.

**Capacities (Gross Ratings)**

| Model  | NPT Size in. (mm) | Orifice Size in. (mm) | Pressure Differential in Pounds Per Square Inch (bar) |             |           |            |            |            |             |            |            |             |            |            |            |            |            |            |            |            |
|--------|-------------------|-----------------------|---|-------------|-----------|------------|------------|------------|-------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|
|        |                   |                       | 1/4 (0.017)   | 1/2 (0.035) | 1 (0.07)  | 2 (0.14)   | 5 (0.35)   | 10 (0.69)  | 15 (1.0)    | 20 (1.4)   | 25 (1.69)  | 30 (2.1)    | 40 (2.8)   | 50 (3.5)   | 60 (4.2)   | 75 (5.2)   | 100 (6.9)  | 125 (8.6)  | 150 (10.4) | 175 (12.1) |
|        |                   |                       | Capacities in Pounds of Condensate Per Hour (kg/hr.)  |             |           |            |            |            |             |            |            |             |            |            |            |            |            |            |            |            |
| FT015I | 3/4, 1 (20 & 25)  | .253 (6.4)            | 390 (177)   | 500 (227)   | 680 (308) | 910 (413)  | 1100 (500) | 1450 (658) | 1600 (725)  |            |            |             |            |            |            |            |            |            |            |            |
| FT015I | 1 1/4 (32)        | .312 (8)              | 600 (272)   | 770 (350)   | 980 (444) | 1240 (562) | 1640 (744) | 2000 (907) | 2340 (1062) |            |            |             |            |            |            |            |            |            |            |            |
| FT030I | 3/4, 1 (20 & 25)  | .235 (6)              | 380 (172)   | 470 (214)   | 630 (285) | 870 (395)  | 1050 (475) | 1380 (625) | 1530 (695)  | 1700 (770) | 1820 (825) | 1900 (860)  |            |            |            |            |            |            |            |            |
| FT030I | 1 1/4 (32)        | .253 (6.4)            | 420 (190)   | 550 (250)   | 740 (335) | 1000 (450) | 1200 (545) | 1550 (700) | 1760 (800)  | 1850 (840) | 2000 (907) | 2200 (1000) |            |            |            |            |            |            |            |            |
| FT075I | 3/4, 1 (20 & 25)  | .166 (4.2)            | 160 (72)  | 210 (95)    | 280 (125) | 360 (165)  | 520 (235)  | 700 (320)  | 800 (360)   | 870 (395)  | 930 (420)  | 970 (440)   | 1120 (510) | 1230 (560) | 1300 (590) | 1450 (658) |            |            |            |            |
| FT075I | 1 1/4 (32)        | .166 (4.2)            | 160 (72)  | 210 (95)    | 280 (125) | 360 (165)  | 520 (235)  | 700 (320)  | 800 (360)   | 870 (395)  | 930 (420)  | 970 (440)   | 1120 (510) | 1230 (560) | 1300 (590) | 1450 (658) |            |            |            |            |
| FT125I | 3/4, 1 (20 & 25)  | .125 (3.2)            | 100 (45)  | 130 (60)    | 170 (77)  | 230 (104)  | 330 (150)  | 410 (186)  | 500 (225)   | 560 (255)  | 620 (280)  | 660 (300)   | 750 (340)  | 830 (375)  | 890 (400)  | 970 (440)  | 1100 (500) | 1190 (540) |            |            |
| FT125I | 1 1/4 (32)        | .125 (3.2)            | 100 (45)  | 130 (60)    | 170 (77)  | 230 (104)  | 330 (150)  | 410 (186)  | 500 (225)   | 560 (255)  | 620 (280)  | 660 (300)   | 750 (340)  | 830 (375)  | 890 (400)  | 970 (440)  | 1100 (500) | 1190 (540) |            |            |
| FT175I | 3/4, 1 (20 & 25)  | .106 (2.7)            | 70 (32)   | 80 (36)     | 110 (50)  | 140 (63)   | 220 (100)  | 280 (127)  | 340 (155)   | 380 (172)  | 400 (180)  | 420 (190)   | 460 (210)  | 480 (220)  | 520 (235)  | 580 (263)  | 690 (315)  | 850 (385)  | 960 (435)  | 1000 (454) |
| FT175I | 1 1/4 (32)        | .106 (2.7)            | 70 (32)   | 80 (36)     | 110 (50)  | 140 (63)   | 220 (100)  | 280 (127)  | 340 (155)   | 380 (172)  | 400 (180)  | 420 (190)   | 460 (210)  | 480 (220)  | 520 (235)  | 580 (263)  | 690 (315)  | 850 (385)  | 960 (435)  | 1000 (454) |

**Ordering Information**

| Model Number | Part Number | NPT Size in. (mm) | Seat Differential Pressure Rating psi (bar) | Housing Design Pressure Rating psi (bar) | Weight lbs. (kg) |
|--------------|-------------|-------------------|---|--|------------------|
| FT015I       | 404270      | 3/4 (20)          | 15 (1)                                      | 250 (17.3)                               | 11.7 (5.3)       |
| FT015I       | 404271      | 1 (25)            | 15 (1)                                      | 250 (17.3)                               | 11.7 (5.3)       |
| FT015I       | 404272      | 1 1/4 (32)        | 15 (1)                                      | 250 (17.3)                               | 11.7 (5.3)       |
| FT030I       | 404273      | 3/4 (20)          | 30 (2.1)                                    | 250 (17.3)                               | 11.7 (5.3)       |
| FT030I       | 404274      | 1 (25)            | 30 (2.1)                                    | 250 (17.3)                               | 11.7 (5.3)       |
| FT030I       | 404275      | 1 1/4 (25)        | 30 (2.1)                                    | 250 (17.3)                               | 11.7 (5.3)       |
| FT075I       | 404276      | 3/4 (20)          | 75 (5.2)                                    | 250 (17.3)                               | 11.7 (5.3)       |
| FT075I       | 404277      | 1 (25)            | 75 (5.2)                                    | 250 (17.3)                               | 11.7 (5.3)       |
| FT075I       | 404278      | 1 1/4 (32)        | 75 (5.2)                                    | 250 (17.3)                               | 11.7 (5.3)       |
| FT125I       | 404279      | 3/4 (20)          | 125 (8.6)                                   | 250 (17.3)                               | 11.7 (5.3)       |
| FT125I       | 404280      | 1 (25)            | 125 (8.6)                                   | 250 (17.3)                               | 11.7 (5.3)       |
| FT125I       | 404281      | 1 1/4 (32)        | 125 (8.6)                                   | 250 (17.3)                               | 11.7 (5.3)       |
| FT175I       | 404282      | 3/4 (20)          | 175 (12.1)                                  | 250 (17.3)                               | 11.7 (5.3)       |
| FT175I       | 404283      | 1 (25)            | 175 (12.1)                                  | 250 (17.3)                               | 11.7 (5.3)       |
| FT175I       | 404284      | 1 1/4 (32)        | 175 (12.1)                                  | 250 (17.3)                               | 11.7 (5.3)       |