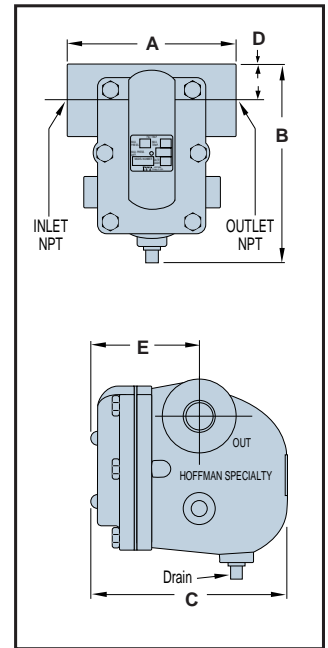


## Float and Thermostatic Steam Traps (continued)

### 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" NPT and BSPT
  - 1" NPT and BSPT
  - 1¼" NPT and BSPT
- 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)

Size in.	A	B	C	D	E
¾					
1	5½ (140)	6 <sup>9</sup> / <sub>16</sub> (167)	6 <sup>5</sup> / <sub>8</sub> (168)	1 <sup>3</sup> / <sub>16</sub> (30)	3½ (89)
1¼					

**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	Size in.	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 FT015I-4	3/4, 1	.253 (6.4)	390 (177)	500 (227)	680 (308)	910 (413)	1100 (500)	1450 (658)	1600 (725)											
FT015I-5	1 1/4	.312 (8)	600 (272)	770 (350)	980 (444)	1240 (562)	1640 (744)	2000 (907)	2340 (1062)											
FT030I-3 FT030I-4	3/4, 1	.235 (6)	380 (172)	470 (214)	630 (285)	870 (395)	1050 (475)	1380 (625)	1530 (695)	1700 (770)	1820 (825)	1900 (860)								
FT030I-5	1 1/4	.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 FT075I-4	3/4, 1	.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-5	1 1/4	.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 FT125I-4	3/4, 1	.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-5	1 1/4	.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 FT175I-4	3/4, 1	.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-5	1 1/4	.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**

NPT Model Number	BSPT Model Number	Size in.	NPT Part Number	BSPT Part Number	Seat Differential Pressure Rating psi (bar)	Body Design Pressure Rating psi (bar)	Weight lbs. (kg)
FT015I-3	FT015I-3J	3/4	404270	404285	15 (1.0)	250 (17.3)	11.7 (5.3)
FT015I-4	FT015I-4J	1	404271	404286	15 (1.0)	250 (17.3)	11.7 (5.3)
FT015I-5	FT015I-5J	1 1/4	404272	404287	15 (1.0)	250 (17.3)	11.7 (5.3)
FT030I-3	FT030I-3J	3/4	404273	404288	30 (2.1)	250 (17.3)	11.7 (5.3)
FT030I-4	FT030I-4J	1	404274	404289	30 (2.1)	250 (17.3)	11.7 (5.3)
FT030I-5	FT030I-5J	1 1/4	404275	404290	30 (2.1)	250 (17.3)	11.7 (5.3)
FT075I-3	FT075I-3J	3/4	404276	404291	75 (5.2)	250 (17.3)	11.7 (5.3)
FT075I-4	FT075I-4J	1	404277	404292	75 (5.2)	250 (17.3)	11.7 (5.3)
FT075I-5	FT075I-5J	1 1/4	404278	404293	75 (5.2)	250 (17.3)	11.7 (5.3)
FT125I-3		3/4	404279		125 (8.6)	250 (17.3)	11.7 (5.3)
FT125I-4		1	404280		125 (8.6)	250 (17.3)	11.7 (5.3)
FT125I-5		1 1/4	404281		125 (8.6)	250 (17.3)	11.7 (5.3)
FT175I-3		3/4	404282		175 (12.1)	250 (17.3)	11.7 (5.3)
FT175I-4		1	404283		175 (12.1)	250 (17.3)	11.7 (5.3)
FT175I-5		1 1/4	404284		175 (12.1)	250 (17.3)	11.7 (5.3)