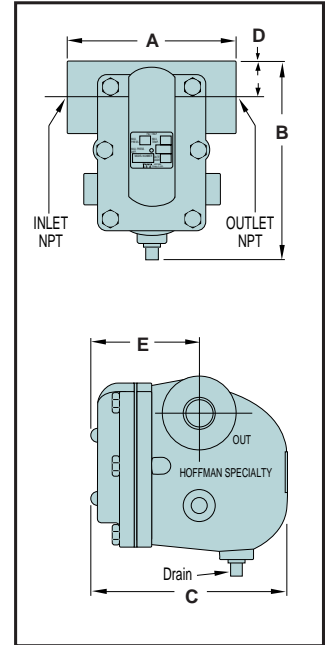


Float and Thermostatic Steam Traps (continued)

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 ⁹ / ₁₆ (167)	6 ³ / ₈ (162)	1 ³ / ₁₆ (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)