

Float and Thermostatic Steam Traps

Series C, H, I and X

The Series C, H, I and X Float and Thermostatic Traps are designed for commercial and industrial heating applications such as steam main drip traps,

unit heaters, tank coils, air make-up coils, shell and tube heat exchangers, or others that require frequent start ups and continuous modulating loads.

- Maximum operating pressure 175 psi (12.1 bar)
- Maximum capacity 60,000 lb/hr.
- Meets Mil specification WW-T-696-E Type VI, Class 1-5

Series	Maximum Capacity		NPT/BSPT Connection Sizes	Series Features
	lb/hr	kg/hr	in.	
C	60,000	24,240	1 1/4 - 2 1/2	Inlet and outlet in trap cover. High capacity units.
H	9,800	4,450	3/4 - 2	4-Port piping convenience. Cover assembly can be replaced without disturbing piping.
I	2,340	1,062	3/4 - 1 1/4	In-line piping provides maximum return line elevation. Cover assembly can be replaced without disturbing piping.
X	24,000	10,896	2	Inlet and outlet in trap cover. Higher capacity than Series C 2 in.

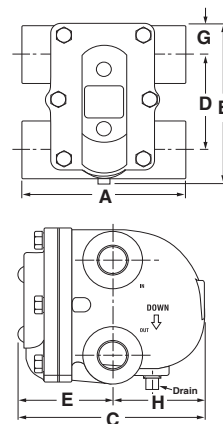
Float and Thermostatic Steam Traps

Series H BEAR TRAP®

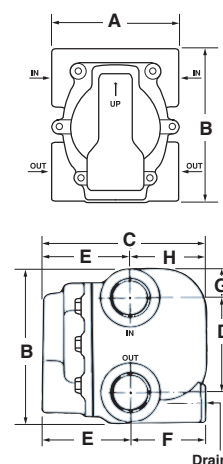
- Models $\frac{3}{4}$ " - 2" feature Universal 4 - port tapplings, (2 inlets, 2 outlets) that provide versatility to allow easy piping and system monitoring
- Sizes available:
 - $\frac{3}{4}$ " NPT and BSPT
 - 1" NPT and BSPT
 - $1\frac{1}{4}$ " NPT
 - $1\frac{1}{2}$ " NPT
 - 2" NPT
- Stainless steel internal components
- Resistant to water hammer and corrosion
- Below condensate level seat design prevents steam leakage
- Rugged thermostatic element eliminates air binding
- Maximum body design pressure
 - 250 psig (17.3 bar) $\frac{3}{4}$ " - $1\frac{1}{4}$ "
 - 175 psig (12.1 bar) $1\frac{1}{2}$ " - 2"
- Maximum operating pressure
 - 175 psig (12.1 bar) $\frac{3}{4}$ " - 2"
- Maximum temperature
 - 406°F (208°C) $\frac{3}{4}$ " - $1\frac{1}{4}$ "
 - 377°F (192°C) $1\frac{1}{2}$ " - 2"



$\frac{3}{4}$ ", 1", $1\frac{1}{4}$ "



$1\frac{1}{2}$ ", 2"



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

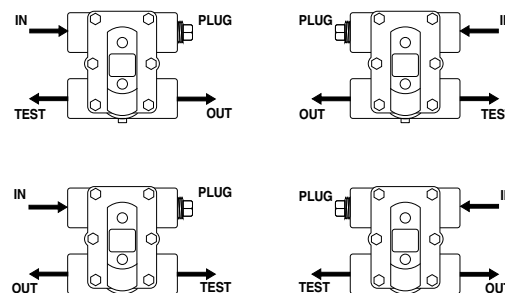
Dimensions in. (mm)

Size in.	A	B	C	D	E	F	G	H
$\frac{3}{4}$	$5\frac{1}{2}$ (140)	$5\frac{19}{32}$ (142)	$6\frac{1}{2}$ (165)	$3\frac{5}{16}$ (84)	$3\frac{13}{32}$ (86)	—	$1\frac{5}{64}$ (27)	$3\frac{1}{16}$ (78)
1	$5\frac{1}{2}$ (140)	$5\frac{19}{32}$ (142)	$6\frac{1}{2}$ (165)	$3\frac{5}{16}$ (84)	$3\frac{13}{32}$ (86)	—	$1\frac{5}{64}$ (27)	$3\frac{1}{16}$ (78)
$1\frac{1}{4}$	$5\frac{1}{2}$ (140)	$5\frac{19}{32}$ (142)	$6\frac{1}{2}$ (165)	3 (76)	$3\frac{13}{32}$ (86)	—	$1\frac{5}{64}$ (27)	$3\frac{1}{16}$ (78)
$1\frac{1}{2}$	$6\frac{3}{8}$ (162)	$7\frac{11}{16}$ (195)	$8\frac{7}{32}$ (209)	$5\frac{1}{4}$ (133)	$4\frac{13}{32}$ (112)	$3\frac{13}{16}$ (97)	$1\frac{11}{32}$ (34)	$3\frac{13}{16}$ (97)
2	6 (152)	11 (279)	$9\frac{5}{32}$ (233)	$7\frac{15}{32}$ (190)	$4\frac{17}{32}$ (115)	$4\frac{7}{32}$ (107)	$1\frac{5}{8}$ (41)	$4\frac{5}{8}$ (117)

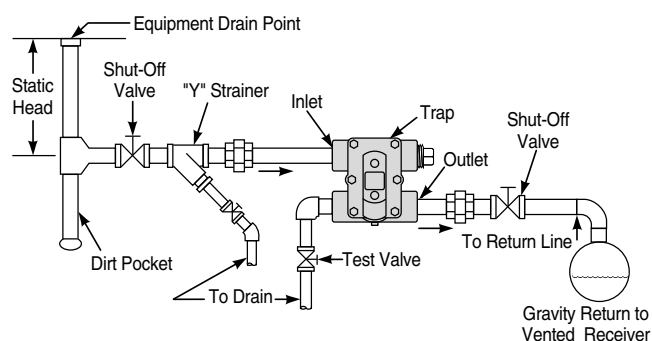
Series H additional inlet and outlet features

Models ¾" - 2"

- Allows positioning options for easy service
- Additional inlet provides a convenient location for vacuum breakers or separate external air vents. Vacuum breakers are required for systems with a modulating temperature regulating valve. External air vents are required when the trap discharges into a wet return line.
- Additional outlet provides a convenient location for a test valve, which eliminates the need for a costly trap test chamber and electronic monitors.



Series H Piping Options



Ordering Information

To convert previously manufactured Hoffman Specialty F & T Trap Model numbers, see page 17.

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)
FT015H-3	FT015H-3J	¾	404200	404201	15 (1)	250 (17.3)	11.7 (5.3)
FT015H-4	FT015H-4J	1	404210	404211	15 (1)	250 (17.3)	11.7 (5.3)
FT015H-5	FT015H-5J	1¼	404220	404221	15 (1)	250 (17.3)	11.7 (5.3)
FT015H-6	FT015H-6J	1½	401626	404627	15 (1)	175 (12.1)	22 (10)
FT015H-8	FT015H-8J	2	401629	404630	15 (1)	175 (12.1)	38 (17)
FT030H-3	FT030H-3J	¾	404202	404203	30 (2.1)	250 (17.3)	11.7 (5.3)
FT030H-4	FT030H-4J	1	404212	404213	30 (2.1)	250 (17.3)	11.7 (5.3)
FT030H-5	FT030H-5J	1¼	404222	404223	30 (2.1)	250 (17.3)	11.7 (5.3)
FT030H-6	FT030H-6J	1½	401638	401639	30 (2.1)	175 (12.1)	22 (10)
FT075H-3	FT075H-3J	¾	404204	404205	75 (5.2)	250 (17.3)	11.7 (5.3)
FT075H-4	FT075H-4J	1	404214	404215	75 (5.2)	250 (17.3)	11.7 (5.3)
FT125H-3	FT125H-3J	¾	404206	404207	125 (12.1)	250 (17.3)	11.7 (5.3)
FT125H-4	FT125H-4J	1	404216	404217	125 (12.1)	250 (17.3)	11.7 (5.3)
FT175H-3	FT175H-3J	¾	404208	404209	175 (12.1)	250 (17.3)	11.7 (5.3)
FT175H-4	FT175H-4J	1	404218	404219	175 (12.1)	250 (17.3)	11.7 (5.3)

Float and Thermostatic Steam Traps (continued)

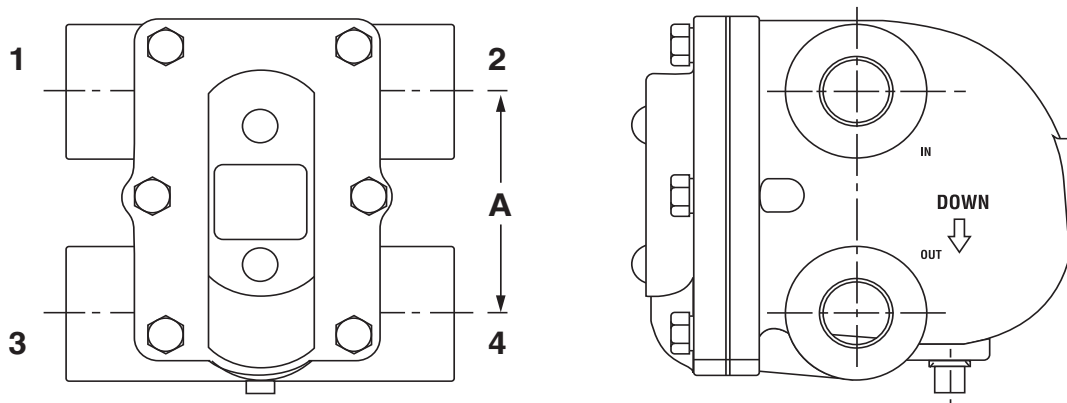
Series H (continued)

- 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.)																	
FT015H-3	3/4	.253 (6.4)	390 (177)	500 (227)	680 (308)	910 (413)	1100 (500)	1450 (658)	1600 (725)											
FT015H-4	1	.253 (6.4)	390 (177)	500 (227)	680 (308)	910 (413)	1100 (500)	1450 (658)	1600 (725)											
FT015H-5	1 1/4	.312 (8)	600 (272)	770 (350)	980 (444)	1240 (562)	1640 (744)	2000 (907)	2340 (1062)											
FT015H-6	1 1/2	.500 (13)	1280 (581)	1700 (771)	2050 (930)	2550 (1157)	3500 (1588)	4400 (1996)	5300 (2404)											
FT015H-8	2	.687 (17)	2500 (1134)	3150 (1429)	4000 (1814)	5000 (2268)	6800 (3084)	8300 (3765)	9800 (4405)											
FT030H-3	3/4	.235 (6)	380 (172)	470 (214)	630 (285)	870 (395)	1050 (475)	1380 (625)	1530 (695)	1700 (770)	1820 (825)	1900 (860)								
FT030H-4	1	.235 (6)	380 (172)	470 (214)	630 (285)	870 (395)	1050 (475)	1380 (625)	1530 (695)	1700 (770)	1820 (825)	1900 (860)								
FT030H-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)								
FT030H-6	1 1/2	.438 (11)	580 (263)	800 (362)	1200 (544)	1680 (762)	2600 (1179)	3500 (1387)	4500 (2041)	5200 (2358)	5700 (2585)	6100 (2766)								
FT075H-3	3/4	.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)				
FT075H-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)				
FT125H-3	3/4	.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)		
FT125H-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)		
FT175H-3	3/4	.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)
FT175H-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)

Series H Competitive Dimensional Comparison of Distance Between Inlet and Outlet Pipes



Dimensions in. (mm)

Size	Manufacturer	Port Tappings				A in. (mm)
		1	2	3	4	
3/4" and 1"	Hoffman FT015H-3 / FT015H-4	Yes	Yes	Yes	Yes	3 ⁵ / ₁₆ (83)
	Hoffman 55	Yes	Yes	Yes	Yes	3 ¹ / ₈ (78)
	Spirax FT015	No	Yes	No	Yes	3 ⁵ / ₁₆ (83)
	Armstrong 15-B3 & 15-B4	Yes	Yes	No	Yes	3 (76)
	Mepco/Dunham Bush 40-215 & 40-415	No	Yes	No	Yes	3 ³ / ₈ (86)
	Mepco/Dunham Bush 40-215 & 40-415	Yes	Yes	Yes	Yes	3 ³ / ₈ (86)

Size	Manufacturer	Port Tappings				A in. (mm)
		1	2	3	4	
1 1/4"	Hoffman FT015H-5	Yes	Yes	Yes	Yes	3 (76)
	Hoffman 55	Yes	Yes	Yes	Yes	4 ¹ / ₈ (104)
	Spirax FT015	No	Yes	No	Yes	3 (76)
	Armstrong 15-B5	Yes	Yes	No	Yes	3 (76)
	Mepco/Dunham Bush 40-515	No	Yes	No	Yes	3 (76)
	Mepco/Dunham Bush 44-515	Yes	Yes	Yes	Yes	3 (76)

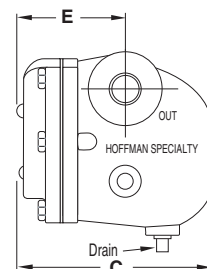
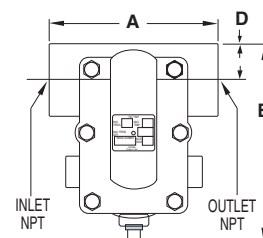
Size	Manufacturer	Port Tappings				A in. (mm)
		1	2	3	4	
1 1/2"	Hoffman FT015H-6	Yes	Yes	Yes	Yes	5 ¹ / ₄ (133)
	Hoffman 55	Yes	Yes	Yes	Yes	5 ¹ / ₄ (133)
	Armstrong 15-B6	Yes	Yes	No	Yes	4 ³ / ₁₆ (106)
	Mepco/Dunham Bush 40-715	No	Yes	No	Yes	3 (76)
	Mepco/Dunham Bush 44-715	Yes	Yes	Yes	Yes	3 (76)

Size	Manufacturer	Port Tappings				A in. (mm)
		1	2	3	4	
2"	Hoffman FT015H-8	Yes	Yes	Yes	Yes	7 ¹⁵ / ₃₂ (190)
	Hoffman 55	Yes	Yes	Yes	Yes	7 ¹⁵ / ₃₂ (190)
	Armstrong 15-B8	Yes	Yes	No	Yes	6 (152)

Float and Thermostatic Steam Traps (continued)

Series I In-line

- 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)	6⅞ (167)	6⅝ (168)	1⅜ (30)	3½ (89)
1¼					

Series I In-line (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)	
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)	

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	FT125I-3J	3/4	404279	404294	125 (8.6)	250 (17.3)	11.7 (5.3)
FT125I-4	FT125I-4J	1	404280	404295	125 (8.6)	250 (17.3)	11.7 (5.3)
FT125I-5	FT125I-5J	1 1/4	404281	404296	125 (8.6)	250 (17.3)	11.7 (5.3)
FT175I-3	FT175I-3J	3/4	404282	404297	175 (12.1)	250 (17.3)	11.7 (5.3)
FT175I-4	FT175I-4J	1	404283	404298	175 (12.1)	250 (17.3)	11.7 (5.3)
FT175I-5	FT175I-5J	1 1/4	404284	404299	175 (12.1)	250 (17.3)	11.7 (5.3)

Float and Thermostatic Steam Traps (continued)

Series C and X

- For large high capacity units
- Sizes available:
Series C:
 1 1/4" NPT and BSPT
 1 1/2" NPT and BSPT
 2" NPT and BSPT
 2 1/2" NPT
Series X:
 2" NPT
- Resistant to water hammer and corrosion
- Below condensate level seat design prevents steam leakage
- Rugged stainless steel thermostatic element eliminates air binding
- Stainless steel internal components
- Can be serviced without dismantling piping
- Maximum operating pressure 175 psig (12.1 bar)
- Maximum temperature 377°F (192°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
Baffle	Stainless Steel {2 1/2" units only}

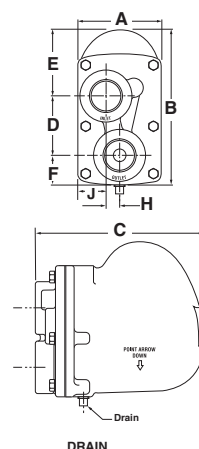
Dimensions in. (mm)

Size in.	A	B	C	D	E
1 1/4	4 1/4 (108)	8 5/16 (211)	8 9/16 (217)	3 (76)	3 3/8 (86)
1 1/2	4 1/4 (108)	8 5/16 (211)	8 9/16 (217)	3 (76)	3 3/8 (86)
2-Std.	7 3/16 (183)	10 1/8 (257)	10 1/2 (267)	4 15/16 (379)	2 11/16 (68)
2-X	10 (254)	15 (381)	15 1/2 (394)	6 5/8 (168)	4 3/4 (121)
2 1/2	14 1/2 (368)	20 1/4 (514)	17 3/8 (441)	9 1/2 (241)	14 15/16 (379)

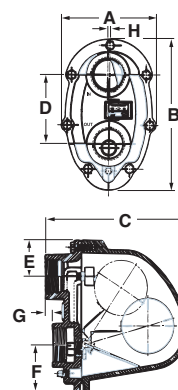
Size in.	F	G	H	J	K	L
1 1/4	2 (51)	—	45/64 (17.8)	1 3/8 (35)	—	—
1 1/2	2 (51)	—	45/64 (17.8)	1 3/8 (35)	—	—
2-Std.	3 1/4 (83)	1 1/2 (12.7)	1 1/8 (3.2)	—	—	—
2-X	3 1/2 (89)	—	—	—	—	—
2 1/2	6 1/4 (159)	5 (127)	12 (305)	1 5/8 (41)	4 1/2 (114)	7 (178)



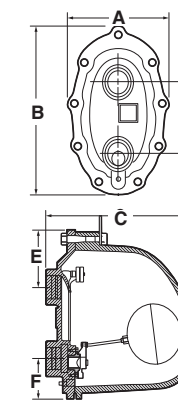
Series C
1 1/4" & 1 1/2"



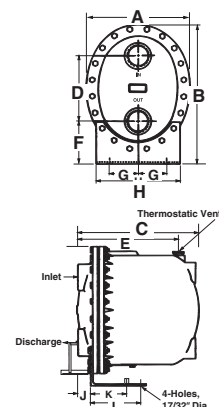
Series C
2"



Series X
2"



Series C
2 1/2"



Ordering Information

To convert previously manufactured Hoffman Specialty F & T Trap Model numbers, see page 17.

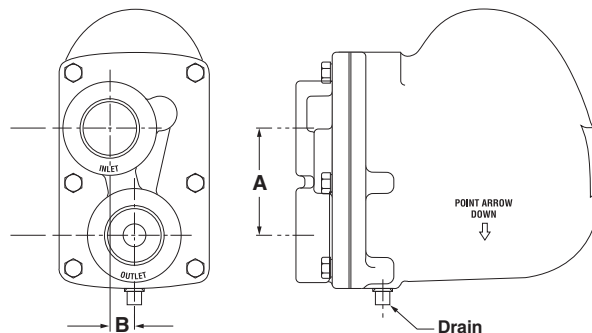
NPT Model Number*	BSPT Model Number	Size in.	NPT Part Number	BSPT Part Number	Seat Differential Pressure psi (bar)	Body Design Pressure Rating psi (bar)	Weight lbs. (kg)
FT015C-6	FT015C-6J	1½	404230	404231	15 (1.0)	175 (12.1)	18 (8)
FT015C-8	FT015C-8J	2	404240	404241	15 (1.0)	175 (12.1)	33 (15)
FT015X-8	FT015X-8J	2	404242	404243	15 (1.0)	175 (12.1)	108 (49)
FT015C-10	FT015C-10J	2½	404244	404245	15 (1.0)	175 (12.1)	175 (79)
FT030C-6	FT030C-6J	1½	404232	404233	30 (2.1)	175 (12.1)	18 (8)
FT030C-8	FT030C-8J	2	401887	401888	30 (2.1)	175 (12.1)	33 (15)
FT030X-8	FT030X-8J	2	401899	401910	30 (2.1)	175 (12.1)	108 (49)
FT030C-10	FT030C-10J	2½	401875	401921	30 (2.1)	175 (12.1)	175 (79)
FT075C-5	FT075C-5J	1¼	404244	404225	75 (5.2)	175 (12.1)	18 (8)
FT075C-6	FT075C-6J	1½	404234	404235	75 (5.2)	175 (12.1)	18 (8)
FT075C-8	FT075C-8J	2	401890	401891	75 (5.2)	175 (12.1)	33 (15)
FT075X-8	FT075X-8J	2	401902	401912	75 (5.2)	175 (12.1)	108 (49)
FT075C-10	FT075C-10J	2½	401875	401913	75 (5.2)	175 (12.1)	175 (79)
FT125C-5	FT125C-5J	1¼	404226	404227	125 (12.1)	175 (12.1)	18 (8)
FT125C-6	FT125C-6J	1½	404236	404237	125 (12.1)	175 (12.1)	18 (8)
FT125C-8	FT125C-8J	2	401893	401894	125 (12.1)	175 (12.1)	33 (15)
FT125X-8	FT125X-8J	2	401905	401922	125 (12.1)	175 (12.1)	108 (49)
FT125C-10	FT125C-10J	2½	401881	401924	125 (12.1)	175 (12.2)	175 (79)
FT175C-5	FT175C-5J	1¼	404228	401915	175 (12.1)	175 (12.1)	18 (8)
FT175C-6	FT175C-6J	1½	404238	401916	175 (12.1)	175 (12.1)	18 (8)
FT175C-8	FT175C-8J	2	401896	401925	175 (12.1)	175 (12.1)	33 (15)
FT175X-8	FT175X-8J	2	401907	401918	175 (12.1)	175 (12.1)	105 (49)
FT175C-10	FT175C-10J	2½	401884	401919	175 (12.1)	175 (12.1)	175 (79)

Note: "J" suffix at end of Model Number indicates BSPT threads, i.e. FT075C-8J

Series C and X Competitive Dimensional Comparison of Distance Between Inlet and Outlet Pipes of Traps with Tappings in the Cover

Dimensions in. (mm)

Size	Manufacturer/Model	A	B
1½"	Hoffman FT015C-6	3 (76)	23/32 (18)
	Spirax FT15	3 (76)	23/32 (18)
2"	Hoffman FT015C-8	4 ¹⁵ / ₁₆ (124)	1/8 (3)
	Mepco/Dunham Bush 30-8A	5 ³ / ₈ (136)	1½ (38)
	Spirax FT15	4 ¹⁵ / ₁₆ (124)	1/8 (38)
2"	Hoffman FT015X-8	6 ⁵ / ₈ (168)	0
	Armstrong 15-J8	6 ⁵ / ₈ (168)	0
	Mepco/Dunham Bush SA30-815	6 ⁷ / ₈ (175)	1 ³ / ₈ (35)
	Spirax FTB-20	4½ (114)	½ (13)
2½"	Hoffman FT015C-10	9½ (241)	0
	Armstrong 30-L10	11 ⁵ / ₁₆ (287)	0
	Mepco/Dunham Bush SA30-930A	5¼ (133)	1½ (38)
	Spirax FTB-125	7¼ (184)	1 ⁷ / ₁₆ (36)



Float and Thermostatic Steam Traps (continued)

Capacities (Series C and X)

- 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.)																	
FT015C-6	1 1/2	.5 (12.7)	1100 (500)	1700 (770)	2400 (1090)	3300 (1500)	5000 (2270)	6600 (3000)	7600 (3450)											
FT015C-8	2	.687 (17.4)	2300 (1043)	2800 (1270)	3600 (1630)	4650 (2110)	6900 (3130)	9000 (4080)	10,900 (4948)											
FT015X-8	2	.970 (24.6)	6500 (2950)	8000 (3628)	9500 (4310)	10,800 (4900)	15,500 (7030)	20,900 (9480)	24,000 (10,885)											
FT015C-10	2 1/2	1.875 (47.6)	17,000 (7710)	20,000 (9070)	27,000 (12,250)	36,000 (16,330)	46,000 (20,865)	55,000 (24,950)	60,000 (27,210)											
FT030C-6	1 1/2	.390 (10)	1000 (450)	1300 (590)	1700 (770)	2300 (1040)	3400 (1540)	4600 (2085)	5500 (2495)	6000 (2720)	6600 (2995)	7000 (3178)								
FT030C-8	2	.563 (14)	1700 (771)	2500 (1134)	3100 (1406)	4100 (1859)	5800 (2630)	7650 (3470)	9000 (4082)	10,200 (4626)	11,100 (5034)	12,000 (5443)								
FT030X-8	2	.876 (22)	3400 (1543)	4600 (2088)	6400 (2905)	8400 (3813)	12,500 (5675)	16,900 (7672)	19,000 (8626)	21,500 (9761)	23,500 (10,669)	24,000 (10,896)								
FT030C-10	2 1/2	1.625 (41)	14,000 (6356)	17,000 (7718)	20,900 (9488)	25,500 (11,577)	33,200 (15,072)	40,500 (18,387)	45,500 (20,657)	49,400 (22,427)	52,700 (23,925)	55,600 (25,242)								
FT075C-5	1 1/4	.312 (8)	600 (272)	800 (363)	1040 (470)	1410 (640)	2200 (1000)	3100 (1405)	3800 (1725)	4100 (1860)	4500 (2040)	4700 (2130)	5000 (2270)	5300 (2400)	5500 (2500)	5900 (2675)				
FT075C-6	1 1/2	.312 (8)	600 (272)	800 (363)	1040 (470)	1410 (640)	2200 (1000)	3100 (1405)	3800 (1725)	4100 (1860)	4500 (2040)	4700 (2130)	5000 (2270)	5300 (2400)	5500 (2500)	5900 (2675)				
FT075C-8	2	.390 (10)	1000 (453)	1350 (612)	1700 (771)	2150 (975)	2950 (1338)	3600 (1632)	4300 (1950)	4850 (2199)	5400 (2449)	5800 (2630)	6600 (2993)	7200 (3265)	7850 (3560)	8500 (3855)				
FT075X-8	2	.585 (15)	2550 (1156)	3150 (1428)	4300 (1930)	5450 (2472)	7600 (3447)	10,400 (4717)	11,400 (5171)	12,500 (5670)	13,500 (6123)	14,250 (6463)	15,600 (7076)	17,150 (7779)	18,600 (8436)	20,500 (9298)				
FT075C-10	2 1/2	1.031 (26)	5900 (2676)	7700 (3492)	10,000 (4536)	13,000 (5896)	18,600 (8436)	24,200 (10,977)	28,300 (12,836)	31,600 (14,333)	34,400 (15,603)	36,800 (16,692)	41,100 (18,642)	44,800 (20,321)	48,040 (21,790)	52,300 (23,723)				
FT125C-5	1 1/4	.246 (6.2)	430 (195)	540 (245)	700 (320)	940 (425)	1400 (635)	1800 (820)	2200 (1000)	2350 (1065)	2600 (1180)	2800 (1270)	3150 (1430)	3400 (1540)	3500 (1590)	3850 (1750)	4400 (2000)	4800 (2180)		
FT125C-6	1 1/2	.246 (6.2)	430 (195)	540 (245)	700 (320)	940 (425)	1400 (635)	1800 (820)	2200 (1000)	2350 (1065)	2600 (1180)	2800 (1270)	3150 (1430)	3400 (1540)	3500 (1590)	3850 (1750)	4400 (2000)	4800 (2180)		
FT125C-8	2	.294 (7)	730 (331)	900 (408)	1180 (535)	1450 (657)	2000 (907)	2600 (1179)	3100 (1406)	3550 (1610)	3900 (1769)	4250 (1927)	4850 (2199)	5350 (2426)	5850 (2653)	6450 (2925)	7350 (3333)	8150 (3696)		
FT125X-8	2	.448 (11)	2300 (1043)	2800 (1270)	3450 (1564)	4200 (1905)	5450 (2472)	6600 (2993)	7450 (3379)	8050 (3651)	8600 (3900)	8950 (4059)	10,350 (4694)	11,950 (5420)	13,400 (6078)	15,600 (7076)	18,850 (8550)	21,800 (9888)		
FT125C-10	2 1/2	.797 (20)	4000 (1814)	5300 (2404)	6900 (3129)	9100 (4127)	13,000 (5896)	17,100 (7756)	20,000 (9072)	22,400 (10,160)	24,500 (11,113)	26,300 (11,929)	29,400 (13,335)	32,100 (14,560)	34,650 (15,717)	37,600 (17,055)	42,100 (19,096)	46,000 (20,865)		
FT175C-5	1 1/4	.210 (5.3)	260 (120)	350 (160)	480 (220)	640 (290)	940 (425)	1190 (540)	1450 (660)	1560 (710)	1670 (760)	1750 (790)	1910 (865)	2040 (925)	2100 (950)	2300 (1040)	2500 (1135)	2900 (1315)	3140 (1425)	3240 (1470)
FT175C-6	1 1/2	.210 (5.3)	260 (120)	350 (160)	480 (220)	640 (290)	940 (425)	1190 (540)	1450 (660)	1560 (710)	1670 (760)	1750 (790)	1910 (865)	2040 (925)	2100 (950)	2300 (1040)	2500 (1135)	2900 (1315)	3140 (1425)	3240 (1470)
FT175C-8	2	.244 (6)	520 (235)	660 (299)	820 (371)	1050 (476)	1450 (657)	1850 (839)	2250 (1020)	2600 (1179)	2900 (1315)	3100 (1406)	3600 (1632)	4050 (1837)	4400 (1995)	4800 (2177)	5600 (2540)	6250 (2835)	6800 (3084)	7500 (3402)
FT175X-8	2	.375 (10)	2100 (953)	2600 (1180)	3000 (1362)	3500 (1589)	4400 (1997)	4900 (2224)	5350 (2428)	5800 (2633)	6250 (2837)	6700 (3041)	7600 (3450)	8600 (3904)	9550 (4335)	11,000 (4994)	13,000 (5902)	14,750 (6696)	16,500 (7491)	18,000 (8172)
FT175C-10	2 1/2	.688 (17)	2460 (1116)	3350 (1520)	4600 (2088)	6200 (2814)	9400 (4267)	12,800 (5811)	15,400 (6991)	17,500 (7945)	19,300 (8762)	21,000 (9534)	23,800 (10,805)	26,300 (11,940)	28,060 (12,739)	31,600 (14,346)	35,900 (16,298)	39,700 (18,023)	43,100 (19,567)	46,200 (20,974)

Conversion of Previously Manufactured Hoffman Specialty Models to Current Model Numbers

Previously Manufactured			Current Model		
Model No.	NPT Size in.	Part Number	Model No.	NPT Size in.	Part Number
55	¾	401617	FT015H-3	¾	404200
55	1	401620	FT015H-4	1	404210
55	1¼	401623	FT015H-5	1¼	404220
55	1½	401626	FT015H-6	1½	401626
55	2	401629	FT015H-8	2	401629
None	—	—	FT015C-6	1½	404230
None	—	—	FT015C-8	2	404240
None	—	—	FT015X-8	2	404242
None	—	—	FT015C-10	2½	404244
550	1	401632	FT030H-4	1	404212
550	1¼	401635	FT030H-5	1¼	404222
550	1½	401638	FT030H-6	1½	401638
550	2	401887	FT030C-8	2	401887
551	1	401641	FT075H-4	1	404214
551	1¼	401644	FT075C-5	1¼	404224
551	1½	401647	FT075C-6	1½	404234
551	2	401890	FT075C-8	2	401890
552	1	401650	FT125H-4	1	404216
552	1¼	401653	FT125C-5	1¼	404226
552	1½	401656	FT125C-6	1½	404236
552	2	401893	FT125C-8	2	401893
553	1	401659	FT175H-4	1	404218
553	1¼	401662	FT175C-5	1¼	404228
553	1½	401665	FT175C-6	1½	404238
553	2	401896	FT175C-8	2	401896
590	¾	401668	FT030H-3	¾	404202
590	1	401671	FT030H-4	1	404212
590	1½	401674	FT030C-6	1½	404232
590	2	401899	FT030X-8	2	401899
590	2½	401875	FT030C-10	2½	401875
591	¾	401677	FT075H-3	¾	404204
591	1	401680	FT075H-4	1	404214
591	1½	401683	FT075C-6	1½	404234
591	2	401902	FT075X-8	2	401902
591	2½	401878	FT075C-10	2½	401878
592	¾	401686	FT125H-3	¾	404206
592	1	401689	FT125H-4	1	404216
592	1½	401692	FT125C-6	1½	404236
592	2	401905	FT125X-8	2	401905
592	2½	401881	FT125C-10	2½	401881
593	¾	401695	FT175H-3	¾	404208
593	1	401698	FT175H-4	1	404218
593	1¼	401701	FT175C-5	1¼	404228
593	2	401907	FT175X-8	2	401907
593	2½	401884	FT175C-10	2½	401884

Current Model number designation code example:

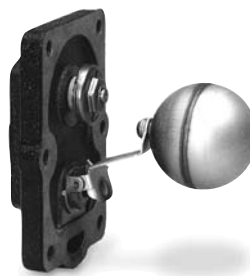
Model	Seat Pressure	Series	Size
FT	015	H	3

There are dimensional differences between some current models as compared to previous models. Please refer to dimensional diagrams for each trap.

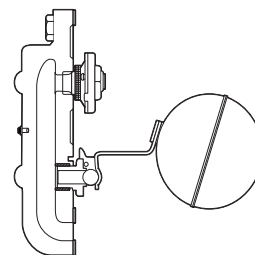
Float and Thermostatic Steam Traps (continued)

Cover Assemblies for Spirax Sarco Float & Thermostatic Steam Traps

Spirax Sarco F&T Trap Model Number	Pressure psi (bar)	Size in.	Hoffman Specialty Cover Assembly* Part Number
FT15	15 (1.1)	$\frac{3}{4}$	604001
		1	604001
		$1\frac{1}{4}$	604006
		$1\frac{1}{2}$	604011
FT30	30 (2.1)	$\frac{3}{4}$	604002
		1	604002
		$1\frac{1}{4}$	604007
		$1\frac{1}{2}$	604012
FT75	75 (5.3)	$\frac{3}{4}$	604003
		1	604003
		$1\frac{1}{4}$	604008
		$1\frac{1}{2}$	604013
FT125	125 (8.8)	$\frac{3}{4}$	604004
		1	604004
		$1\frac{1}{4}$	604009
		$1\frac{1}{2}$	604014



Cover Assembly



* Cover assembly includes cover casting, all internal components, and cover gasket.