

## FTH50 Series

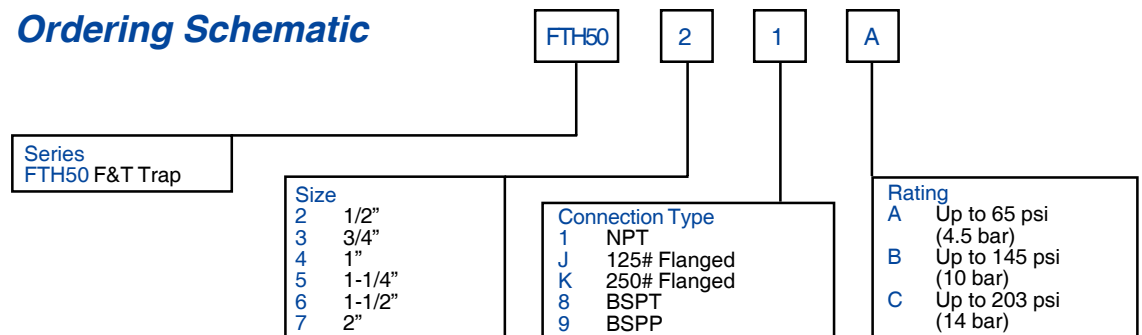
### Float trap with thermostatic air vent



The FTH50 is a float & thermostatic style steam trap with an inline, straight-through body design, which eliminates the staggered piping usually associated with this type of steam trap.

It utilizes a stainless steel float and a simple lever mechanism to open or close the valve in correlation to the amount of condensate present. The opening is proportional to the condensate rate and is unaffected by instantaneous pressure changes. The FTH50 is used where fast response and continuous condensate discharge is required such as on heat exchangers, tanks, pans, ovens, and drying cylinders.

#### Ordering Schematic



# FTH50 Series Float & Thermostatic Steam Traps

## Installation

The FTH50 steam trap must be fitted with the float arm in a horizontal plane so that the float will rise and fall vertically within the trap body.

## Specifications

**Sizes:** 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

**End Connections:** threaded and flanged

**Materials of Construction:**

- Body & Cover: Ductile Iron
- Thermostatic Capsule: Stainless Steel
- Air Vent Seat & Float Seat: 304 Stainless Steel
- Main Valve (Ball): Stainless Steel
- Float & Float Lever: 304 Stainless Steel

**Maximum Allowable Pressure:** 362 psi (25 bar)

**Maximum Allowable Temperature:** 572°F (300°C)

**Maximum Operating Pressure:** 232 psi (16 bar)

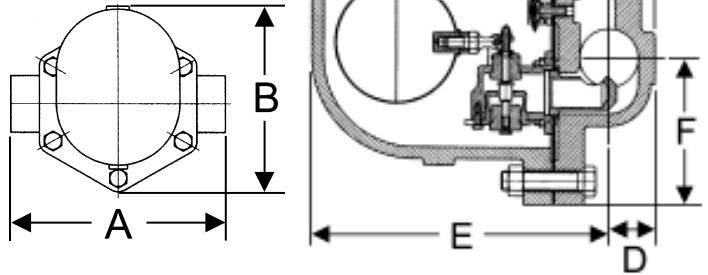
**Maximum Differential Pressure:** 65 psid (4,5 bar), 145 psid (10 bar), 203 psid (14 bar)

**Maximum Operating Temperature:** 482°F (250°C)

## Discharge Capacities

Capacities shown in blue represent condensate in lbs. per hour; kg/hr shown in ( ).

## Dimensions



	A	B	C	D	E	F	G	WT.
1/2"	4.80" (122)	4.30" (109)	5.87" (149)	2.69" (68)	3.18" (81)	2.17" (55)	4.5" (114)	7# 3,2 kg
3/4"	4.80" (122)	4.30" (109)	5.87" (149)	2.69" (68)	3.18" (81)	2.17" (55)	4.5" (114)	7# 3,2 kg
1"	4.74" (120)	7.75" (197)	9.23" (234)	0.98" (25)	8.25" (210)	3.10" (79)	6.6" (168)	14.5# 6,6 kg
1-1/4"	10.58" (269)	9.75" (248)	11.06" (281)	1.35" (34)	9.71" (247)	4.38" (111)	8.1" (206)	38.5# 17,5 kg
1-1/2"	10.58" (269)	9.75" (248)	11.06" (281)	1.35" (34)	9.71" (247)	4.38" (111)	8.1" (206)	38.5# 17,5 kg
2"	11.81" (300)	10.19" (259)	11.59" (294)	1.59" (40)	10.00" (254)	5.0" (127)	8.4" (213)	53.5# 24,3 kg

Note: dimensions shown in ( ) represent mm.

Diff. Pressure	With 4.5 Orifice				With 10 Orifice				With 14 Orifice			
	1/2", 3/4"	1"	1-1/4", 1-1/2"	2"	1/2", 3/4"	1"	1-1/4", 1-1/2"	2"	1/2", 3/4"	1"	1-1/4", 1-1/2"	2"
1.5 psi (0,1 bar)	250 (115)	880 (400)	2425 (1100)	7715 (3500)	120 (55)	385 (175)	1455 (660)	3965 (1800)	80 (38)	285 (130)	990 (450)	1875 (850)
3 psi (0,2 bar)	350 (160)	1230 (560)	3200 (1450)	10580 (4800)	160 (74)	495 (225)	2040 (925)	5730 (2600)	110 (52)	375 (170)	1375 (625)	2755 (1250)
4.4 psi (0,3 bar)	400 (180)	1500 (680)	3970 (1800)	13230 (6000)	200 (89)	610 (275)	2535 (1150)	6830 (3100)	135 (62)	440 (200)	1650 (750)	3200 (1450)
5.8 psi (0,4 psi)	420 (190)	1745 (790)	4740 (2150)	15320 (6950)	220 (100)	710 (320)	2865 (1300)	7715 (3500)	155 (70)	510 (230)	1875 (850)	3750 (1700)
8.7 psi (0,6 bar)	500 (225)	2070 (940)	5845 (2650)	18740 (8500)	275 (125)	840 (380)	3580 (1625)	9370 (4250)	180 (82)	620 (280)	2315 (1050)	4740 (2150)
11.6 psi (0,8 bar)	575 (260)	2370 (1075)	6500 (2950)	21165 (9600)	310 (140)	990 (450)	4025 (1825)	10580 (4800)	205 (93)	710 (325)	2645 (1200)	5510 (2500)
14.5 psi (1 bar)	610 (275)	2650 (1200)	7165 (3250)	27560 (12500)	350 (160)	1100 (500)	4685 (2125)	11900 (5400)	220 (100)	795 (360)	2865 (1300)	6065 (2750)
29 psi (2 bar)	795 (360)	2975 (1350)	9920 (4500)	33070 (15000)	440 (200)	1540 (700)	6615 (3000)	16535 (7500)	295 (135)	1100 (500)	3965 (1800)	7940 (3600)
43.5 psi (3 bar)	940 (425)	3970 (1800)	12125 (5500)	38580 (17500)	530 (240)	1820 (825)	7935 (3600)	20285 (9200)	375 (170)	1300 (590)	4960 (2250)	9920 (4500)
65 psi (4.5 bar)	1100 (500)	5230 (2375)	14770 (6700)	49600 (22500)	620 (280)	2115 (960)	9700 (4400)	24800 (11250)	415 (190)	1565 (710)	6065 (2750)	12125 (5500)
72.5 psi (5 bar)					660 (300)	2315 (1050)	10140 (4600)	26125 (11850)	440 (200)	1675 (760)	6395 (2900)	12900 (5850)
87 psi (6 bar)					705 (320)	2535 (1150)	11245 (5100)	28880 (13100)	485 (220)	1810 (820)	7055 (3200)	14110 (6400)
116 psi (8 bar)					795 (360)	2865 (1300)	13230 (6000)	33070 (15000)	550 (250)	2095 (950)	7935 (3600)	16535 (7500)
145 psi (10 bar)					880 (400)	3140 (1425)	14770 (6700)	35935 (16300)	595 (270)	2370 (1075)	8820 (4000)	18520 (8400)
203 psi (14 bar)									685 (310)	2750 (1250)	10365 (4700)	20950 (9500)