



Cast Steel Float and Thermostatic Steam Traps FTB Super Capacity Series

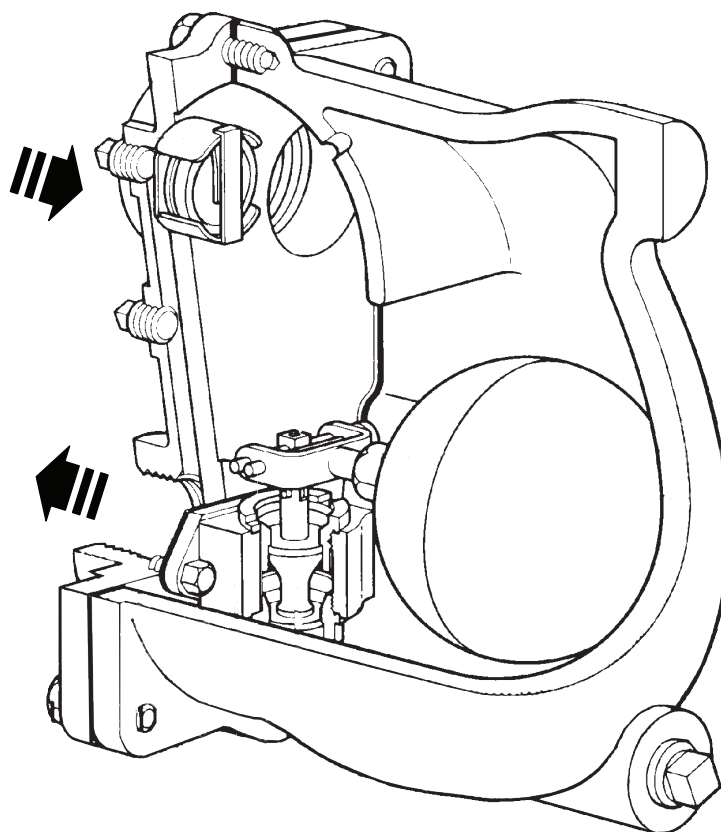
Description

The trap contains a float valve mechanism which modulates to discharge condensate continuously at steam temperature. Non-condensable gases are released by a separate internal balanced pressure thermostatic air vent.

Model	FTB-125		FTB-200	
PMO	125 psi g	8.6 bar g	200 psi g	13.8 bar g
Sizes	2½"			
Connections	NPT, SW			
Construction	Cast steel body			
	Stainless Steel valve head and seat, mechanism housing			
Options	Bimetal Air Vent			

Typical applications

All process heat exchange equipment, particularly when controlled by modulating temperature control valves; unit heaters and air heating coils.



Limiting operating conditions

PMO	Maximum operating pressure	FTB-125:	125 psi g (8.6 bar g)
		FTB-200:	200 psi g (13.8 bar g)

Thermostatic air vent operating range

Steam pressure		Maximum steam temperature	
psi g	bar g	°F	°C
200	13.8	572	300
175	12.1	558	292
150	10.3	555	291
100	6.9	547	286
75	5.2	542	283
50	3.4	534	279
25	1.7	521	272
0	0	464	240

Note: Use bimetal air vent outside range on chart up to 650 °F (343 °C).

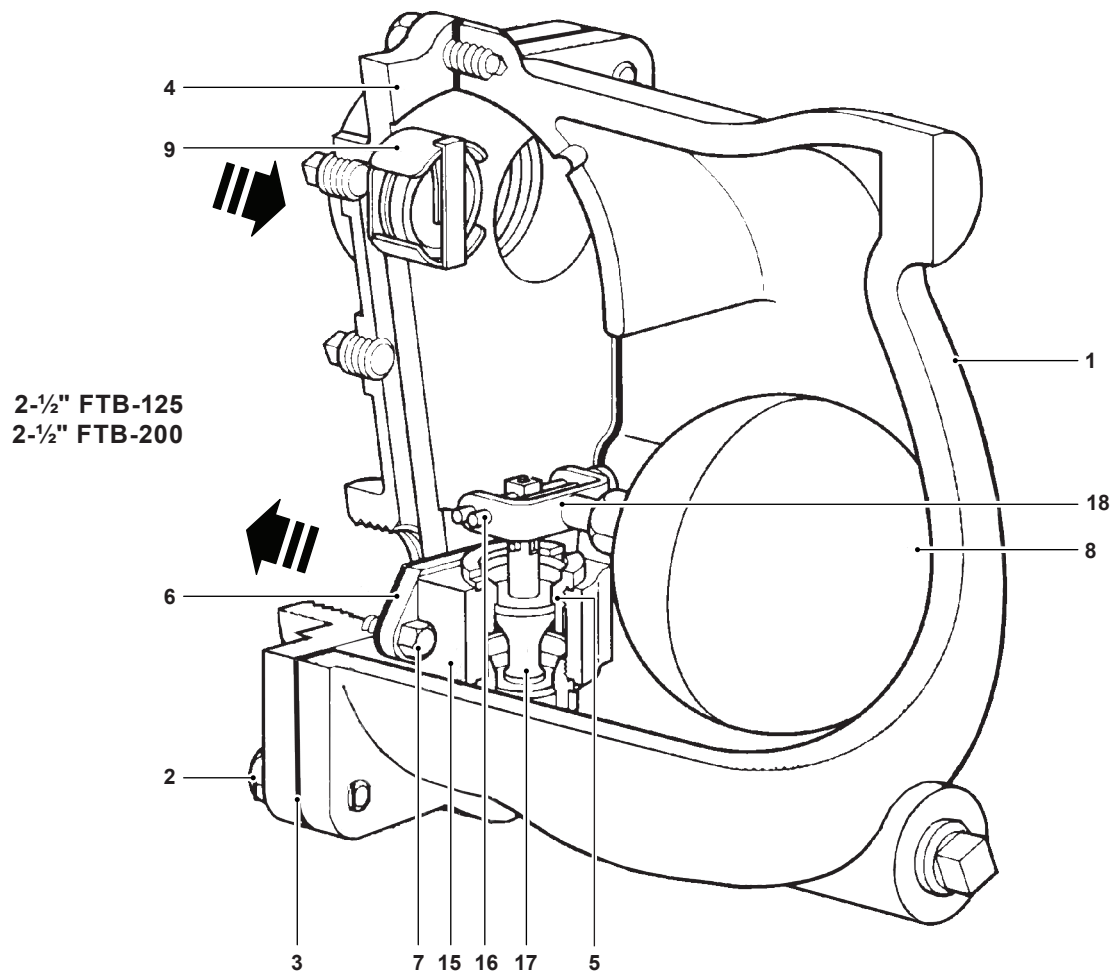
Pressure shell design conditions

PMA	Maximum allowable pressure	FTB-125	200 psi g @ up to 650 °F (13.8 bar g @ up to 343 °C)
		FTB-200	
TMA	Maximum allowable temperature	FTB-125	650 °F @ 200 psi g (343 °C @ 13.8 bar g)
		FTB-200	

Capacities

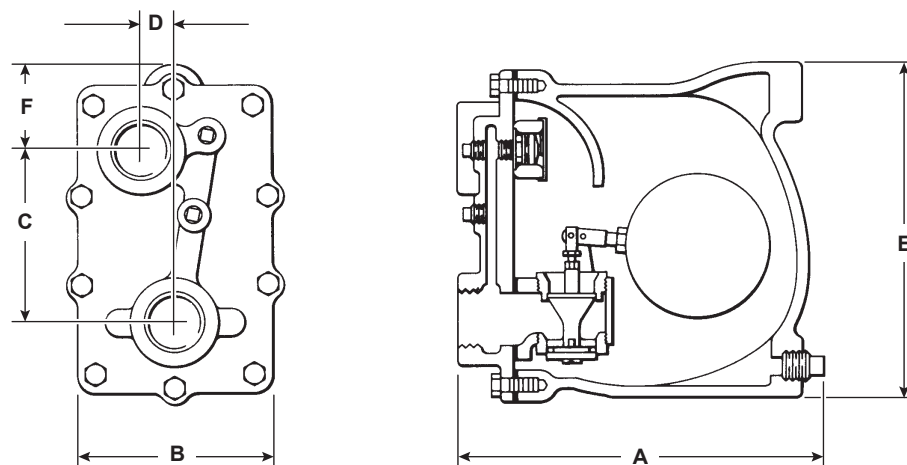
See TI-P038-07-US

Materials



No.	Part	Material	
1	Body	Cast Steel	ASTM A216 WCB
2	Cover Screws	Carbon Steel	ASTM A449 Type 1
3	Cover Gasket	Graphite	
4	Cover	Cast Steel	ASTM A216 WCB
5	Valve Seat	Stainless Steel	
6	Valve Assembly Gasket	Graphite	
7	Main Valve Assembly Screws	Stainless Steel	
8	Ball Float	Stainless Steel	
	Air Vent Assembly	Stainless Steel	
9	Air Vent Head	Stainless Steel	
	Air Vent Seat	Stainless Steel	
15	Main Valve Assy Housing	Stainless Steel	
16	Pivot Pin	Stainless Steel	
17	Valve Head	Stainless Steel (FTB-175) Cast Stainless Steel (FTB-125)	
18	Float Arm	Stainless Steel (FTB-175)	

Dimensions/weights (approximate) in inches (mm) and lbs (kg)



2-1/2" FTB-125 and 200

Type and Size	A	B	C	D	E	F	Weight
FTB-125 2-1/2"	15.4 (391)	9.25 (235)	6.9 (175)	1.4 (36)	14.4 (366)	4.0 (102)	112 lb (50.8 kg)
FTB-200 2-1/2"							

Sample specification

Steam traps shall be of the mechanical float type having cast steel bodies, NPT or SW connections, and stainless steel valve heads and seats. Incorporated into the trap body shall be a stainless steel balanced pressure thermostatic air vent capable of withstanding 572 °F operating temperature and resisting waterhammer without sustaining damage. Internals of the trap shall be completely servicable without disturbing the piping. Trap tested in accordance to ANSI/FCI 85-1. Capacity data obtained in accordance to PTC 39.1.

Installation

A pipeline strainer should be installed ahead of any steam trap. Full-port isolating valves should be placed to permit servicing. The trap should be installed below the drainage point of the equipment with a collecting leg before the trap, in a position with the float arm in a horizontal plane so that the float rises and falls vertically, and with the direction of flow as indicated on the cover. Refer to IMI 2.300 for complete instructions.

Maintenance

This product can be maintained without disturbing the piping connections. Complete isolation from both supply and return line is required before any servicing is performed.

The trap should be disassembled periodically for inspection and cleaning of the valve head and seat, and operating mechanism.

Worn or damaged parts should be replaced using a complete valve mechanism assembly and/or air vent assembly.

Complete installation and maintenance instructions are given in IMI 2.300, which accompanies the product.

Spare Parts

Gasket kit (3 of each)	B, E (F)
Air vent Kit	H, J, L, M, N
Valve mechanism kit (less float)	D, E, F
Float	P

