Cast Iron Float and Thermostatic Steam Traps FT-150, FT-200

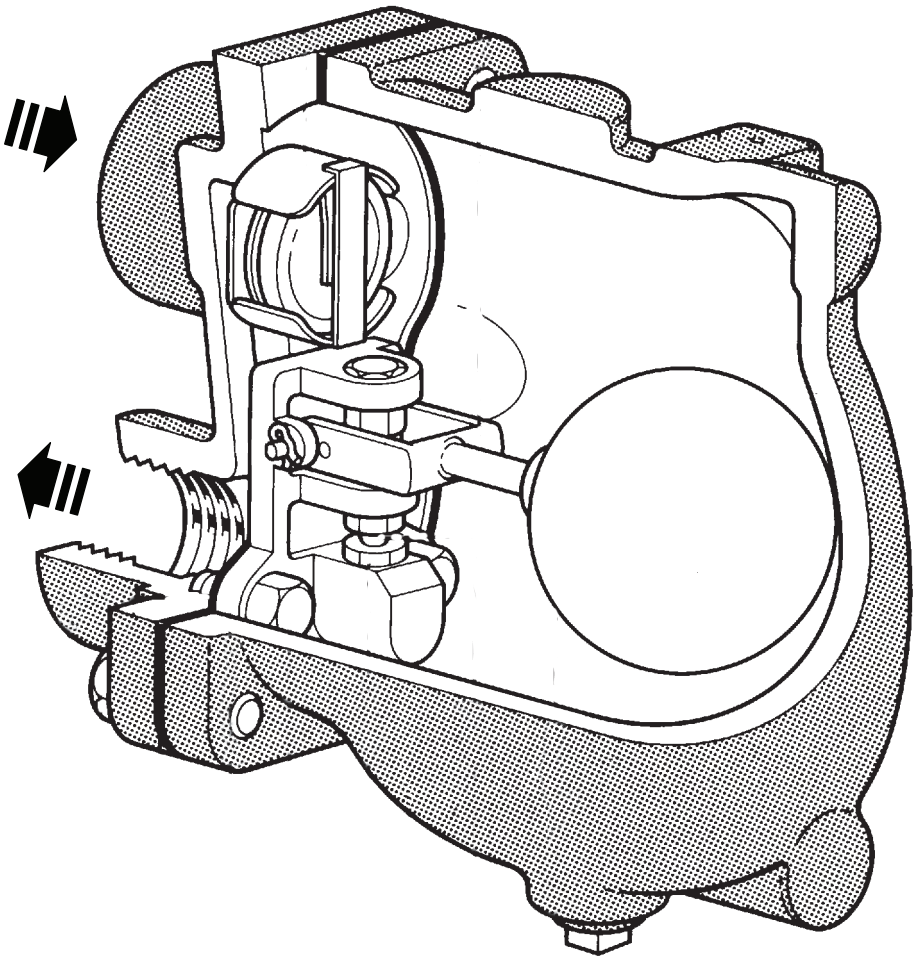
Description

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

Model	FT-150	FT-200
PMO	150 psi g	200 psi g
Sizes	¾", 1", 1-¼", 1-½"	
Connections	NPT	
Construction	Cast Iron Body and Cover, Stainless Steel Internals	
Option	Gauge Glass Vacuum Breaker	

Typical applications

All process equipment, particularly when controlled by modulating temperature control valves, unit heaters, air heating coils, heat exchangers and steam main drip stations.



Limiting operating conditions

PMO	Maximum Operating Pressure	FT-150:	150 psi g (10.3 bar g)
		FT-200:	200 psi g (13.8 bar g)
Maximum Operating Temperature at all operating pressures			450 °F (232 °C)

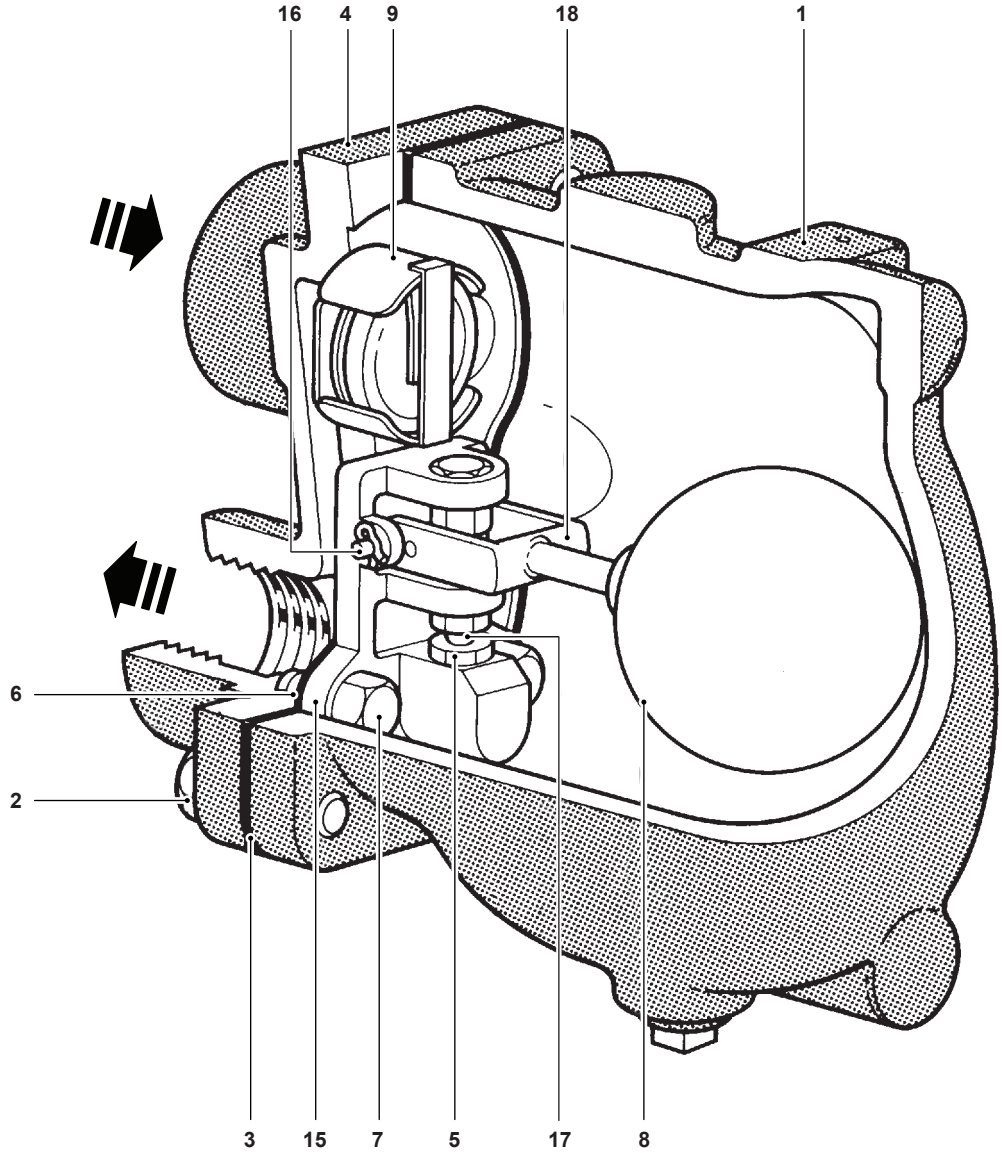
Pressure shell design conditions

PMA	Maximum allowable pressure	200 psi g @ up to 450 °F (13.8 bar g @ up to 232 °C)
TMA	Maximum allowable temperature	450 °F @ 200 psi g (232 °C @ 13.8 bar g)

Capacities

See TI-P038-07-US.

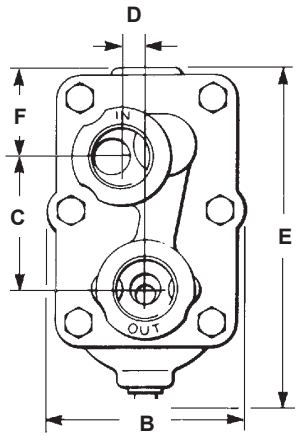
Materials

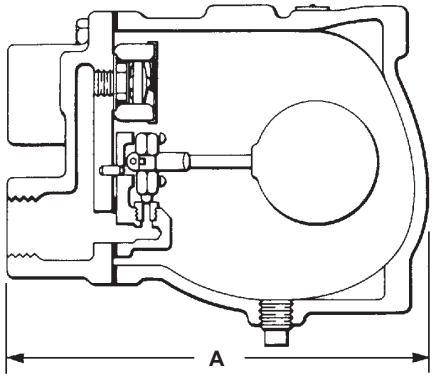


No.	Part	Material	
1	Body	Cast Iron	ASTM A126 CL B
2	Cover screws	Carbon Steel	ASTM A449
3	Cover gasket	Graphite	
4	Cover	Cast Iron	ASTM A126 CL B
5	Valve seat	Stainless Steel	
6	Main valve assembly gasket	Graphite	
7	Main valve assembly Screws	Copper Alloy	
8	Ball float	Stainless Steel	

No.	Part	Material
9	Air vent assembly	Stainless Steel
	Air vent head	Stainless Steel
	Air vent seat	Stainless Steel
15	Main valve assembly housing	Cast Red Brass
16	Pivot pin	Stainless Steel
17	Valve head	Stainless Steel
18	Float arm	Forged Brass (¾", 1")
		Cast Red Brass (1-¼", 1-½")

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





Size	A	B	C	D	E	F	Weight
¾", 1"	8.5 (216)	3.9 (99)	2.6 (66)	0.4 (10)	6.9 (175)	1.8 (46)	15 lb (6.8 kg)
1¼", 1½"	10.75 (273)	5.75 (146)	3 (76)	0.6 (15)	9.1 (231)	2.5 (64)	30 lb (13.6 kg)

Sample specification

Steam traps shall be of the mechanical ball float type having cast iron bodies, NPT 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 450 °F (232 °C) steam temperature and resisting waterhammer without sustaining damage. Internals of the trap shall be completely servicable without disturbing the piping.

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 so that the float arm is in a horizontal plane and the float rises and falls vertically, with the flow direction 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, operating mechanism and air vent. 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, F
Air Vent Kit	H, J, L, M, N
Valve Mechanism Kit (less float)	D, E, F
Float Kit	P