spirax sarco®

Cast Steel Float & Thermostatic Steam Traps
FTB Super Capacity Series

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

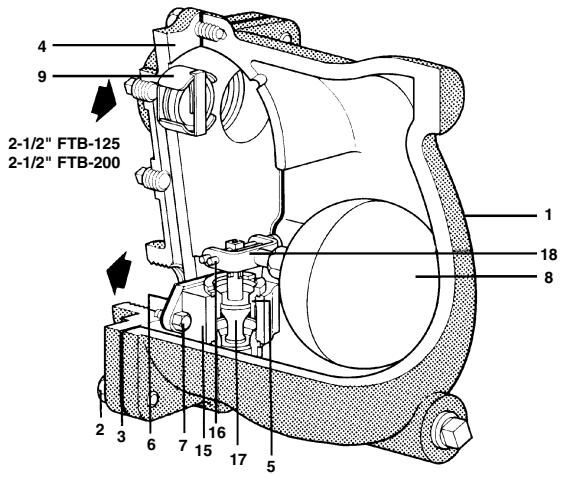
Model ➪	FTB-125	FTB-200
PMO	125 psig	200 psig
Sizes	2-1/2"	
Connections	NPT, SW	
Construction	Cast Steel Body	
	Stainless Steel valve head & seat, Mechanism housing	

Typical Applications

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

Construction 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	Type 303
6	Valve Assembly Gasket	Graphite	
7	Main Valve Assembly Screws	Stainless Steel	ASTM A193 GR. B8
8	Ball Float	Stainless Steel	Type 304
9	Air Vent Assembly	Stainless Steel	
	Air Vent Head	Stainless Steel	Type 440 GR B
	Air Vent Seat	Stainless Steel	Type 303
15	Main Valve Assy Housing	Stainless Steel	ASTM A743 CF8M
16	Pivot Pin	Stainless Steel	Type 303
17	Valve Head	Stainless Steel (FTB-175)	Type 303
		Cast Stainless Steel (FTB-125)	ASTM A351GR. CF-8M
18	Float Arm	Stainless Steel (FTB-175)	Type 301 ASTM A743 CF8M



For Capacities, see TIS 2.317

Limiting Operating Conditions

Max. Operating Pressure (PMO) **FTB-125:**125 psig *(8.6 barg)*
FTB-200:200 psig *(13.8 barg)*

Max. Operating Temperature 45˚F *(25˚C)* of Superheat at all operating pressures with thermostatic air vent

Example @ 125 psig Operating Pressure
Thermostatic Air Vent Operating Temperature Maximum is 398˚F (203˚C)
Bimetal Air Vent available for higher temperature operation (consult factory)

Pressure Shell Design Conditions

PMA (Max. allowable pressure) **FTB-125 / FTB-200** 200 psig/up to 650˚F *12.1 barg/up to 343˚C*

TMA (Max. allowable temp.) **FTB-125 / FTB-200** 650° F/0-200 psig *343°C/0-12.1 barg*

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.
In the interests of development and improvement of the product, we reserve the right to change the specification.

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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

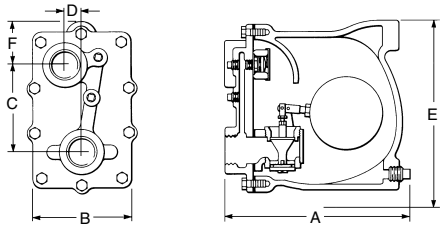
This product can be maintained without disturbing the piping connections. Complete isolation from both supply and return line is required before any servicing is performed.
The trap should be disassembled periodically for inspection and cleaning of the valve head and seat, and operating mechanism.
Worn 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.

Sample Specification

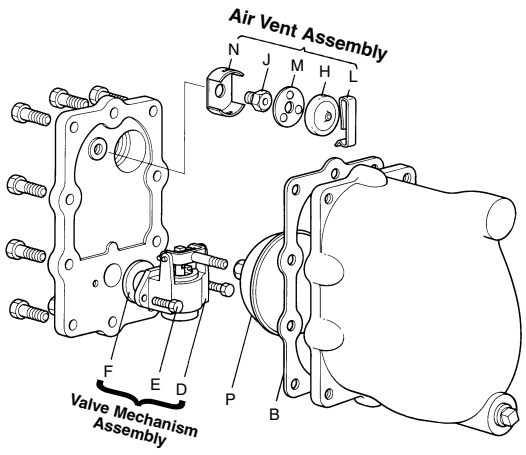
Steam traps shall be of the mechanical float type having cast steel bodies, NPT or SW connections, and stainless steel valve heads and seats. Incorporated into the trap body shall be a stainless steel balanced pressure thermostatic air vent capable of withstanding 45˚F*(25˚C)* of superheat and resisting water-hammer 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.

Dimensions
(nominal) in inches and millimeters

Type & Size	A	B	C	D	E	F	Weight
FTB-125	**15.4**	**9.25**	**6.9**	**1.4**	**14.4**	**4.0**	**112 lb**
2-1/2"	*390*	*235*	*184*	*35*	*397*	*95*	*50.8 kg*
FTB-200	**15.4**	**9.25**	**6.9**	**1.4**	**14.4**	**4.0**	**112 lb**
2-1/2"	*390*	*235*	*184*	*35*	*397*	*95*	*50.8 kg*



2-1/2" FTB-125 & 200



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

We certify that the data as given on this sheet are correct.

Signed:_____

Date:_____

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