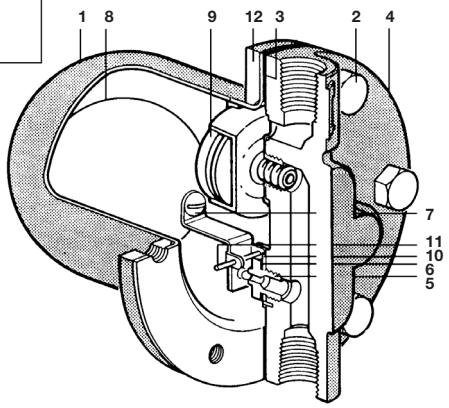
Stainless Steel Float & Thermostatic Steam Traps
FTS150, FTS300

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 □	FTS150V	FTS300V	FTS150H	FTS300H
PMO	150 psig	300 psig	150 psig	300 psig
Sizes	1/2" Vertical		1/2" Horizontal	
Connections	NPT			
Construction	Stainless Steel Cover, Body & Internals			
Options	Socket Weld to ANSI B16.11			

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

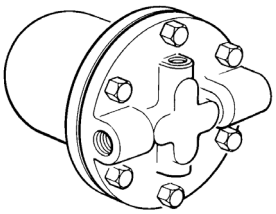
Max. Operating Pressure (PMO) **FTS150:** 150 psig (*10 barg*)
FTS300: 300 psig (*21 barg*)

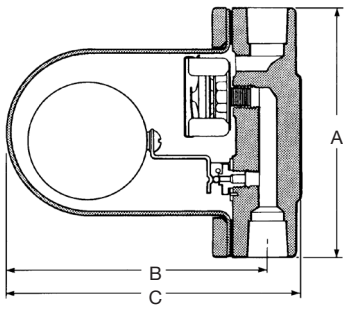
Max. Operating Temperature 572˚F (*300˚C*) of superheat at all operating pressures

Pressure Shell Design Conditions

PMA 450psig/up to 750˚F *31 barg/up to 400˚C*
Max. allowable pressure

TMA 750˚F/0-450 psig *400˚C/0-31 barg*
Max. allowable temperature





Dimensions
(nominal) in inches and millimeters

Size	A	B	C	Weight
1/2"	**5.3** *135*	**5.4** *139*	**6.1** *156*	**6 lb** *2.7 kg*

Construction Materials

No.	Part	Material	
1	Body	Stainless Steel	AISI 304
2	Cover Screws	Stainless Steel	AISI 304
3	Cover Gasket	Graphite	
4	Cover	Stainless Steel	AISI 304
5	Valve Seat	Stainless Steel	
6	Valve Seat Gasket	Stainless Steel	
7	Float Screw & Washer	Stainless Steel	
8	Ball Float & Lever	Stainless Steel	
9	Air Vent Assembly	Stainless Steel	
10	Valve Seat Bracket	Stainless Steel	
11	Pivot Pin	Stainless Steel	
12	Body Retaining Ring	Stainless Steel	AISI 304

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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Capacities lb/hr hot condensate

	Inlet Pressure															
psig	10	15	20	25	30	40	50	75	100	125	150	175	200	250	300	ORIFICE
bar	*.7*	*1.0*	*1.4*	*1.7*	*2.1*	*2.8*	*3.5*	*5.2*	*6.9*	*8.6*	*10.3*	*12.1*	*13.8*	*17.2*	*20.7*	SIZE
FTS150	300	350	385	420	450	500	540	625	700	760	800	–	–	–	–	.100"/*2.54 mm*
FTS300	145	170	190	200	220	240	260	310	330	370	400	420	440	470	510	.070"/*1.78 mm*

For kg/h multiply by .454

Sample Specification

Steam traps shall be of the mechanical ball float type having stainless steel bodies and forged steel covers, NPT connections, and all 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 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

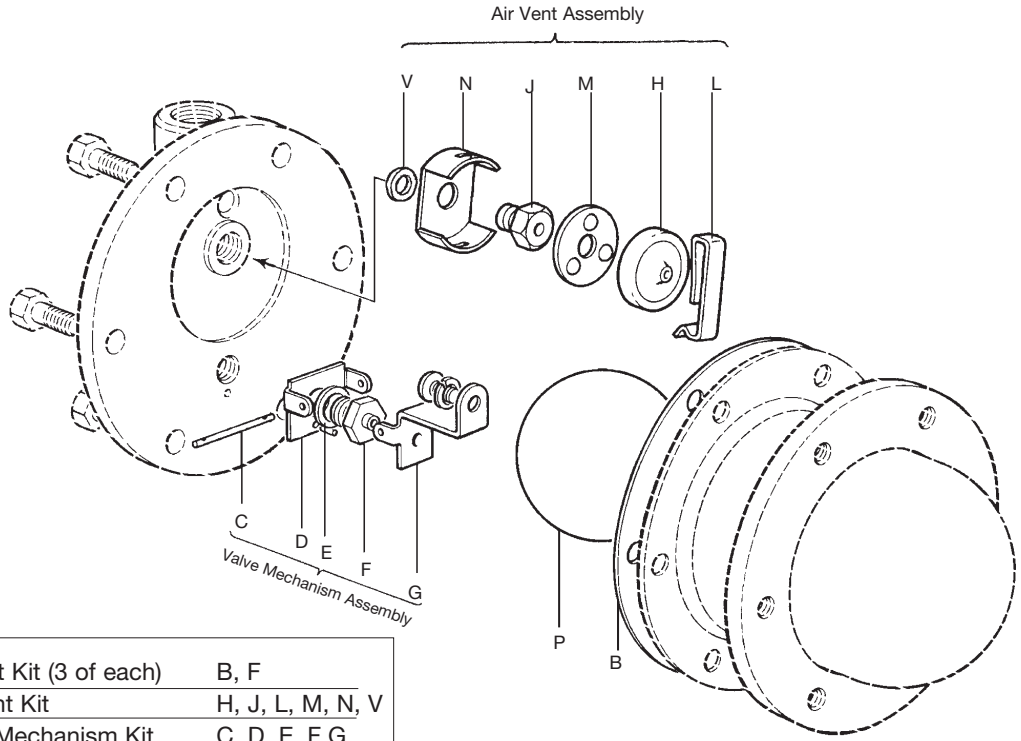
This product can be maintained without disturbing the piping connections. Complete isolation from both supply and return line is required before any servicing is performed.

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, V
Valve Mechanism Kit	C, D, E, F,G
Float Kit	P

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