

STEAM TRAPS

FTE Series

Float & Thermostatic Steam Trap

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Revised 9/2004

Model	FTE
Sizes	1½", 2", 2½"
Connections	NPT
Body Material	Ductile Iron
PMO Max. Operating Pressure	200 PSIG
TMO Max. Operating Temperature	450°F
PMA Max. Allowable Pressure	300 PSIG up to 450°F
TMA Max. Allowable Temperature	450°F @ 300 PSIG



TYPICAL APPLICATIONS

PROCESS: The FTE Series float and thermostatic steam traps are used in HVAC and on industrial process equipment with very high load requirements. These high capacity steam traps are typically used on reboilers, absorption chillers, large air handling coils, large heat exchangers, and other large process equipment.

HOW IT WORKS

Float and thermostatic steam traps have a float and thermostatic element that work together to remove both condensate and air from the steam system. The float, which is attached to a valve, opens when condensate enters the trap. Air is discharged through the thermostatic air vent to the outlet side of the trap. The thermostatic air vent closes when steam enters the trap.

FEATURES

- Ductile Iron has a higher pressure and temperature rating and is more resistant to shock loads than Cast Iron.
- High Capacity steam trap for draining large process equipment (over 100,000 lbs/hr)
- All stainless steel internals with hardened seat and wear parts
- In-line repairable is simplified by having all internals attached to the cover
- Welded stainless steel thermostatic air vent resists shock from water hammer. Bi-metallic air vent is available for superheated applications
- Excellent air handling capability allowing air to be discharged rapidly and steam to enter the system quickly during start up
- F & T traps discharge condensate immediately as it is formed (no condensate will back up into the system)

SAMPLE SPECIFICATION

The trap shall be of float and thermostatic design with ductile iron body. The trap must incorporate all stainless steel internals with hardened seat and welded stainless steel thermostatic air vent. Trap must be in-line repairable.

INSTALLATION

Isolation valves should be installed with trap to facilitate maintenance. The trap must be level and upright for the float mechanism to operate. Larger traps should not be supported by the piping system alone. Trap must be sized and located properly in the steam system.

MAINTENANCE

All working components can be replaced with the trap body remaining in-line. Repair kits include thermostatic air vent, float, valve seat and disc, and gaskets. For full maintenance details see Installation and Maintenance Manual.

OPTIONS

Bimetallic air vent for superheated steam applications.

Parallel-pipe inlet/outlet connections are standard as shown. An optional Inline inlet/outlet connection is available. Contact factory.

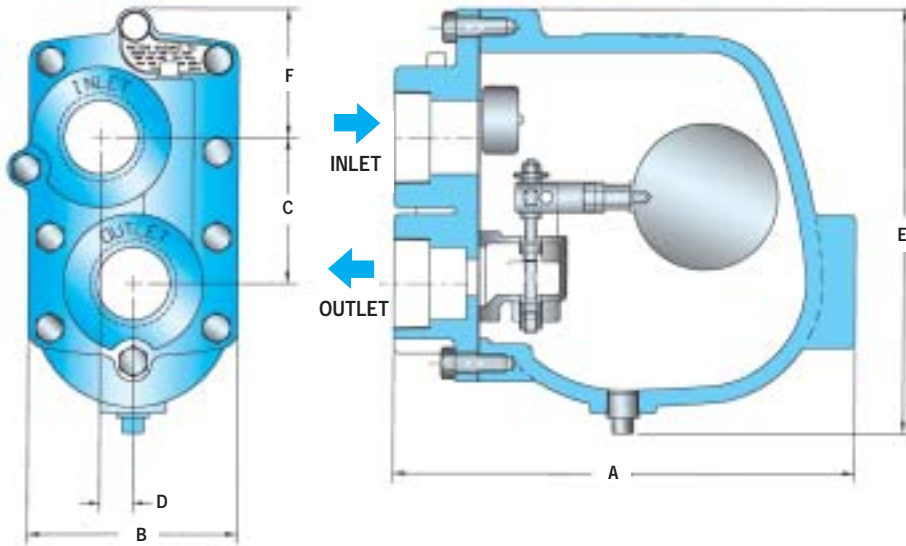
MATERIALS

Body & Cover	Ductile Iron
Cover Screw	Grade 5 Carbon Steel
Cover Gasket	Garlock
Valve Discs	Stainless Steel, AISI 174PH
Main Valve Assembly Housing	Stainless Steel, AISI 174PH
Valve Assembly Gasket	Garlock
Ball Float	Stainless Steel, AISI 304
Thermostatic Vent	Stainless Steel, AISI 300 Optional: Bimetallic air vent

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DIMENSIONS & WEIGHTS – inches/pounds							
Size/Model	A	B	C	D	E	F	Weight
2" FTE-20	12.6	5.7	4.5	0.5	11.1	3.9	54
2" FTE-50	16.0	8.4	7.3	1.4	15.6	3.6	146
2 1/2" FTE-50	15.5	8.4	7.3	1.4	15.6	3.6	140
2 1/2" FTE-125	15.5	8.4	7.3	1.4	15.6	3.6	146
1 1/2" FTE-200	9.6	4.3	3.0	0.7	8.8	2.6	35
2" FTE-200	12.6	5.7	4.5	0.5	11.1	3.9	65
2 1/2" FTE-200	15.5	8.4	7.3	1.4	15.6	3.6	146

HOW TO ORDER

From the capacity chart, select the model that can handle the working pressure of the system (PMO). Select the pipe size that will meet the capacity requirements at the differential pressure.

Example:

2" FTE-200 2" pipe connections
200 PSI max operating pressure

CAPACITIES – Condensate (lbs/hr)		PMO PSIG	Pipe Size	Orifice Size	Differential Pressure (PSI)															
Model	1/4				1/2	1	2	5	10	15	20	30	40	50	75	100	125	150	175	200
FTE-20*	20	2"	.937"	6100	7800	9300	11800	15900	19500	22500	26000									
FTE-50	50	2"	2.125"	12800	16900	20100	25300	33000	40200	43500	46000	47800	50500	52500						
FTE-50	50	2 1/2"	2.125"	20400	25700	31000	37000	46300	55100	60300	65100	72000	77300	82100						
FTE-125	125	2 1/2"	2.125"	20400	25700	31000	37000	46300	55100	60300	65100	72000	77300	82100	90400	97700	105000			
FTE-200	200	1 1/2"	.375"	950	1350	1900	2200	2700	3300	3900	4400	5300	5800	6400	7600	8500	9400	10300	11100	11900
FTE-200	200	2"	.75"	2700	4100	5700	7400	9900	11800	13400	14400	16400	18000	19000	21500	23000	24500	26000	27600	29200
FTE-200	200	2 1/2"	1.5"	7200	12300	17400	21500	27600	32600	36000	39300	43100	46600	49200	54700	58800	61900	64900	69000	74000

* Single seat orifice. All others are double seated.