

## STEAM TRAPS

## FTE/FTES Series

## Float &amp; Thermostatic Steam Trap

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Model	FTE	FTES
Sizes	1 1/2", 2", 2 1/2"	2 1/2"
Connections	NPT	NPT, SW, Flanged
Body Material	Ductile Iron	Cast Steel
PMO Max. Operating Pressure	200 PSIG	300 PSIG
TMO Max. Operating Temperature	450°F	450°F
PMA Max. Allowable Pressure	300 PSIG up to 450°F	300 PSIG up to 750°F
TMA Max. Allowable Temperature	450°F @ 300 PSIG	750°F @ 300 PSIG



## TYPICAL APPLICATIONS

**PROCESS:** The **FTE/FTES 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.**
- **Cast Steel Body will allow operating pressures and temperatures up to 300 PSIG and 450° F.**
- **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. Live orifice 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 or cast steel 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

Live orifice 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 (FTE)	Ductile Iron
Body & Cover (FTES)	Cast Steel, ASTM A-216
Cover Screw	Grade 5 Carbon Steel
Cover Gasket	Grafoil
Valve Discs	Stainless Steel, AISI 17-4PH
Main Valve Assembly Housing	Stainless Steel, AISI 17-4PH
Valve Assembly Gasket	Garlock
Ball Float	Stainless Steel, AISI 304
Thermostatic Vent	Stainless Steel, AISI 300 Optional: Live orifice air vent

