

Float & Thermostatic Steam Traps

For efficient condensate drainage
of industrial process and
HVAC equipment



spirax
/sarco

Automatic and continuous elimination of condensate and air at steam temperature increases system efficiency.

Most steam-using equipment is designed to utilize the heat given up by steam when it condenses. For efficient operation, the steam space must be kept free of condensate and air so that the entire heat transfer surface is exposed to steam.

Only a Float & Thermostatic steam trap can drain condensate as quickly as it forms while at the same time removing air and other non-condensable gases which may be present at start-up or collect during operation. Condensate never backs up into the steam space; gases collect in the top of the trap and are removed through a separate integral air vent.

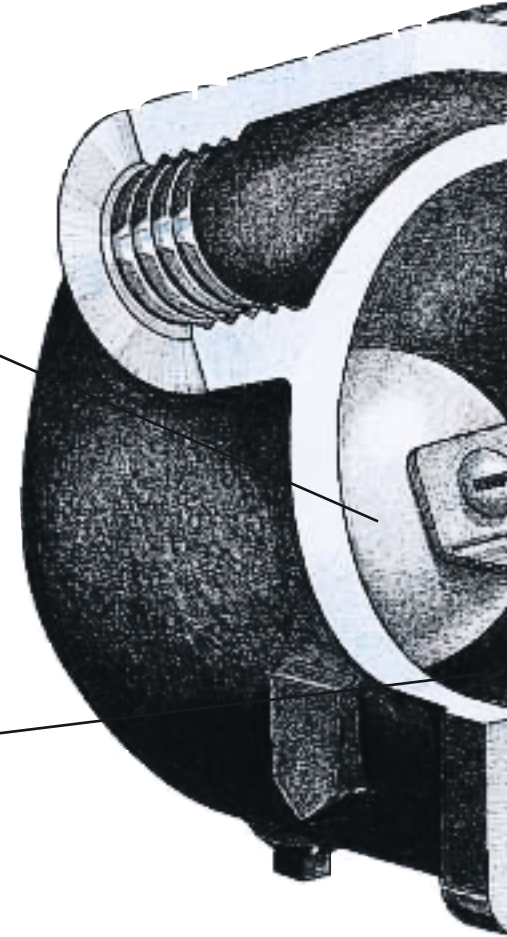
Spirax Sarco offers the world's most complete line of Float & Thermostatic steam traps with cast iron, ductile iron, carbon steel and stainless steel bodies for steam pressures up to 465 psi and condensate loads up to 300,000 lb/h.

How it works

On start-up, air in the system is quickly discharged through the integral thermostatic air vent (1). When condensate reaches the trap it raises the float to open the main valve. Cool condensate is discharged through both the main valve and the air vent (2). When the trap reaches operating temperature the air vent closes and condensate at steam temperature is discharged continuously through the main valve. The opening of the main valve is regulated by

Stainless Steel float automatically adjusts the valve opening to maintain a continuous condensate flow.

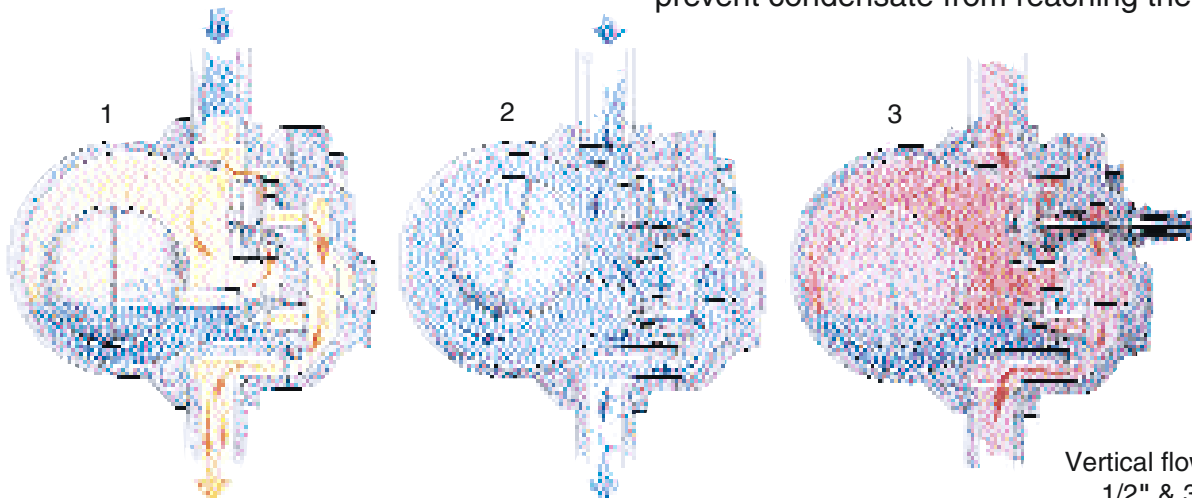
Unaffected by back pressure since operation is regulated solely by condensate level inside the trap.



the condensate level in the trap so that condensate never backs up into the inlet piping.

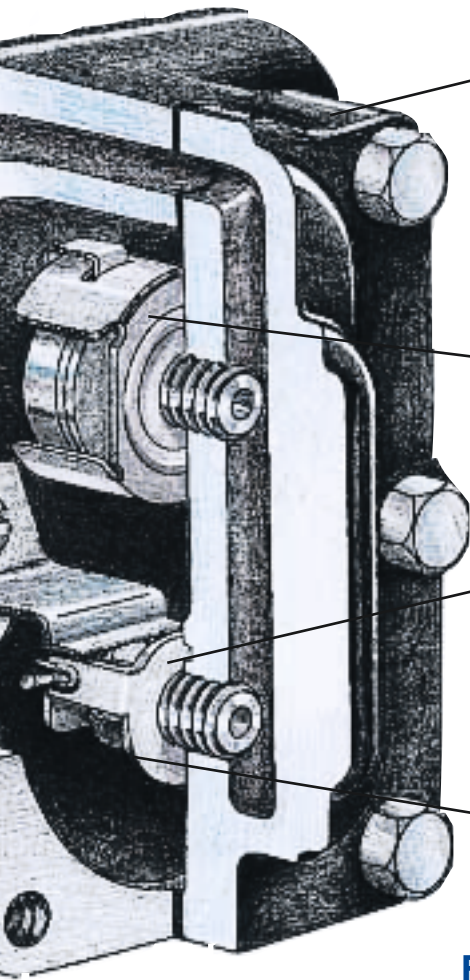
Air which accumulates in the trap during operation is periodically discharged through the thermostatic air vent.

Certain models can be supplied with a steam lock release (SLR) which provides an adjustable steam bleed (3). An SLR should be specified whenever the piping arrangement may permit the formation of a steam pocket which can prevent condensate from reaching the trap.



Vertical flow with FT14
1/2" & 3/4" only.

User benefits



All internal parts can be serviced without disturbing the piping connections.

Stainless steel balanced pressure thermostatic air vent withstands waterhammer and at least 45°F of superheat

Stainless steel valve trim.

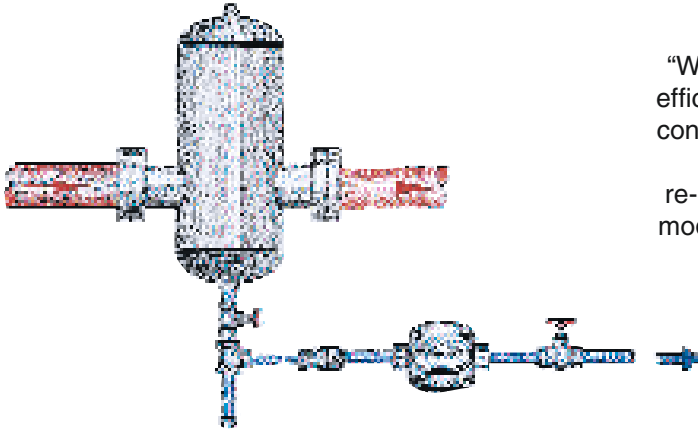
Condensate seals the valve at all times, preventing steam leakage.

- Instantly adjusts to load and pressure variations.
- Automatic air venting reduces warm-up time and improves heat transfer.
- Continuously modulated discharge eliminates steam space pressure variations for closer temperature control.
- Stainless steel valve trim, floats and air vents increase service life.
- In-line horizontal piping connections simplify installation and maintenance.
- All internal parts can easily be renewed without disturbing the pipe connections.
- Float & Thermostatic traps can never "lose prime" and blow steam. When condensate is not present, the main valve closes tight.
- Steam loss is eliminated because during operation, the main valve is always sealed by condensate.
- The optional SLR prevents steam locking when condensate must be lifted to the trap.
- Option Vacuum breaker built into trap to break vacuum on system shutdown.

Float & Thermostatic Steam Trap Overview

Model	Sizes (inches)									Connections			Pipe Configuration			Body Material			Options		TIS #	
	½	¾	1	1¼	1½	2	2½	3	4	NPT	SW	FLG	In-line Horiz.	Vert.	Parallel	Cast Iron	Dctl. Iron	Cast Steel	Stn. Steel	Stm Lock Release		SLR and Air Vent
FT-15	✓	✓	✓	✓	✓					✓					✓	✓				✓	✓	2.313
FT-30	✓	✓	✓	✓	✓					✓					✓	✓				✓	✓	2.313
FT-75	✓	✓	✓	✓	✓					✓					✓	✓				✓	✓	2.313
FT-125	✓	✓	✓	✓	✓					✓					✓	✓				✓	✓	2.313
FT-150	✓	✓	✓	✓						✓					✓	✓						2.314
FT-200	✓	✓	✓	✓						✓					✓	✓						2.314
FTB-20						✓				✓					✓	✓				✓		2.315
FTB-30						✓				✓					✓	✓				✓	✓	2.315
FTB-125							✓			✓					✓	✓					✓	2.315
FTB-175				✓	✓	✓				✓					✓		✓			1½" only	2½" only	2.315
FTB-200							✓			✓	✓						✓					2.315
FT-14	✓	✓								✓			✓	✓			✓					2.320
FTI-15	✓	✓	✓							✓			✓			✓					✓	2.321
FTI-30	✓	✓	✓							✓			✓			✓					✓	2.321
FTI-75	✓	✓	✓							✓			✓			✓					✓	2.321
FTI-125	✓	✓	✓							✓			✓			✓					✓	2.321
FTI-200	✓	✓	✓							✓			✓			✓					✓	2.321
FT14			✓	✓	✓					✓			✓			✓					✓	2.301
FT450		✓	✓	✓	✓					✓	✓	✓	✓				✓					2.304
FT450								✓	✓	✓	✓	✓	✓				✓					2.3041
FT16	✓	✓								✓			✓						✓		✓	2.319
FT46	✓	✓	✓	✓	✓							✓	✓					✓			✓	2.318

Typical Applications for Float

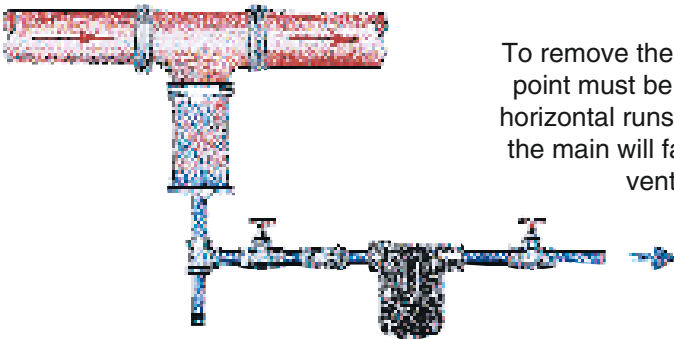
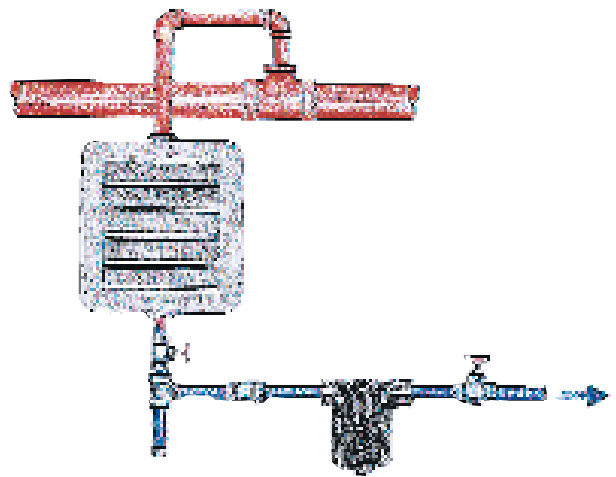


Steam Separator

“Wet” steam can damage equipment and reduce process efficiency. A Spirax Sarco separator efficiently “knocks out” condensate droplets in the steam flow. If condensate is not drained continuously from the separator, it could be re-entrained in the steam flow. Because of its continuous, modulated discharge, a Spirax Sarco Float & Thermostatic steam trap is ideal for this application.

Steam Unit Heater

If condensate backs up into the heater, the heat output will be reduced and corrosion could occur at the steam-condensate interface. The steam trap must react instantly to large variations in load. Steam unit heaters must be fitted with a Float & Thermostatic steam trap; no other type has all of the required performance characteristics.

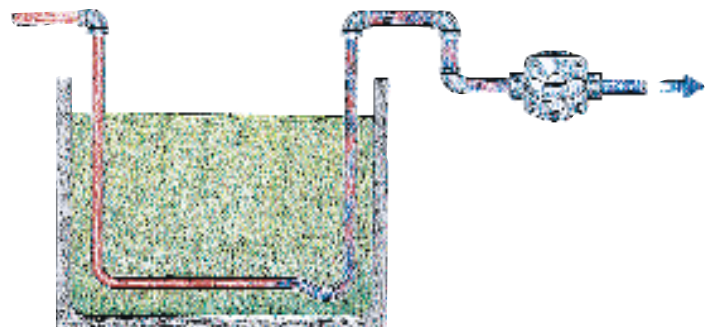


Steam Main Drip

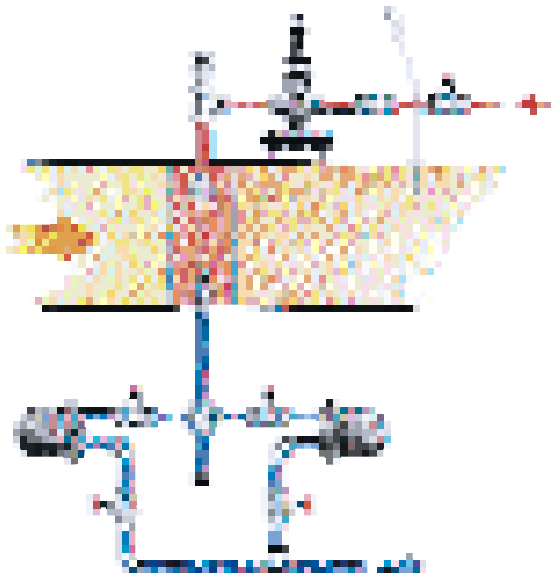
To remove the condensate which always forms in steam distribution mains, a drip point must be installed at every low point and every two or three hundred feet in horizontal runs. An equal tee ensures that condensate flowing along the bottom of the main will fall into the collecting leg. The Float & Thermostatic steam trap’s air vent efficiently eliminates the air which is present at start-up.

Steam Lock Release

When condensate must be lifted to the trap or when the trap must be located some distance from the equipment, the inlet piping may become filled with steam which prevents condensate from reaching the trap. A steam lock release (optional on certain Float & Thermostatic models) allows the locked steam to be bled off to the return line. Please consult Spirax Sarco for details.



& Thermostatic Steam Traps



Air Handling Coil

For accurate temperature control and prevention of freezing, waterhammer and corrosion, the coil must be kept entirely free of condensate and air. Because of its air handling ability, its instantaneous response to variations in condensate load and pressure, and its continuous operation, a Float & Thermostatic steam trap is the only type acceptable for this application.

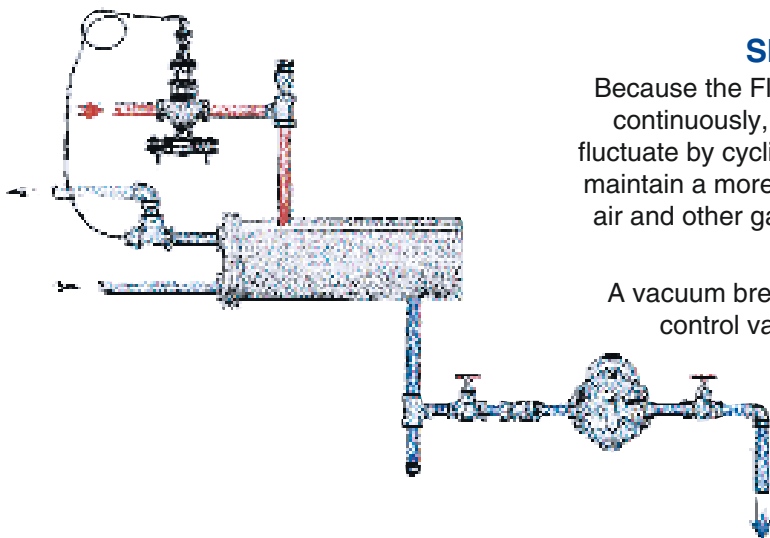
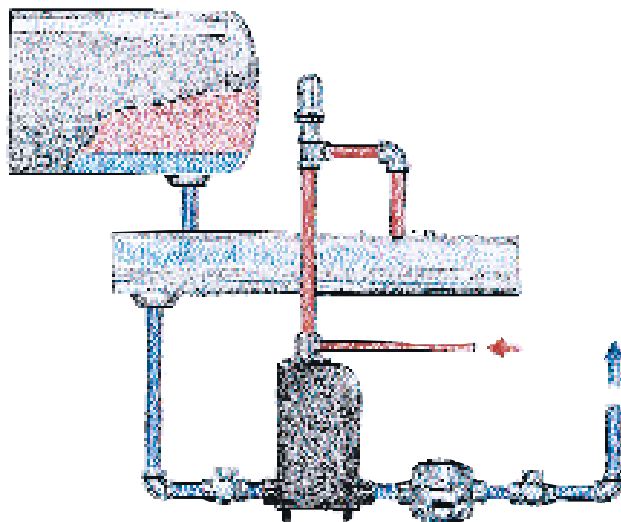
For critical installations, two traps, each of which can handle the full load, should be fitted in parallel. When the condensate return system is not pressurized, the traps should be mounted as far as possible directly below the coil to provide a hydrostatic head to assist in drainage.

“Stall” Conditions

Sufficient pressure must always be present at the steam trap inlet to overcome any back pressure caused by a pressurized return line or a lift after the trap. The system will “stall” whenever the control valve reduces the steam space pressure below the required amount.

If this condition is a possibility, a Spirax Sarco Pressure Powered Pump™ should be installed. The Pressure Powered Pump™ uses steam at full line pressure to force condensate through the steam trap against the back pressure.

Complete details will be found in the Spirax Sarco Pressure Powered Pump™ Product Bulletin.



Shell and Tube Heat Exchanger

Because the Float & Thermostatic steam trap discharges condensate continuously, it does not cause the heat exchanger pressure to fluctuate by cycling open and closed. The control valve can therefore maintain a more accurate temperature. The automatic elimination of air and other gases improves temperature control and reduces the possibility of corrosion.

A vacuum breaker permits condensate to drain by gravity when the control valve calls for sub-atmospheric shell pressures.

Steam Trap Selection and Sizing

Need to Know

- The steam pressure at the trap after any pressure drop through the control valve or equipment.
- The distance the condensate must be lifted after the trap.
Rule of thumb: 2 feet of lift equals 1 psi back pressure (approximately).
- Any other possible sources of back pressure in the condensate return system. For example:
 - Condensate taken to a pressurized deaerator tank or flash recovery vessel.
 - Local back pressure due to discharge of numerous traps close together into an undersized return.
- Quantity of condensate handled. Obtained from:
 - Measurement
 - Calculation
 - Manufacturer's data
- Safety Factor that is dependent upon particular application, typical examples as follows:

Steam Mains	2:1
Tracers	2:1
Non-Modulating	2:1
Modulating over 30 psi	3:1
Modulating under 30 psi	Size trap at full load and 1/2 psi differential

Rule of thumb: Use a factor of 2 on everything except Temperature Controlled Air Heater Coils and Converters, and Siphon Applications

How to Size

The difference between the steam pressure at the trap inlet and the total back pressure, including that due to lift after the trap, is the differential pressure. The quantity of condensate should be multiplied by the appropriate safety factor to produce the sizing load. The trap may now be selected using the differential pressure and the sizing load.

Note: The inlet pressure to the steam trap should never exceed the Maximum Operating Pressure (PMO) of the selected trap, regardless of differential pressure.

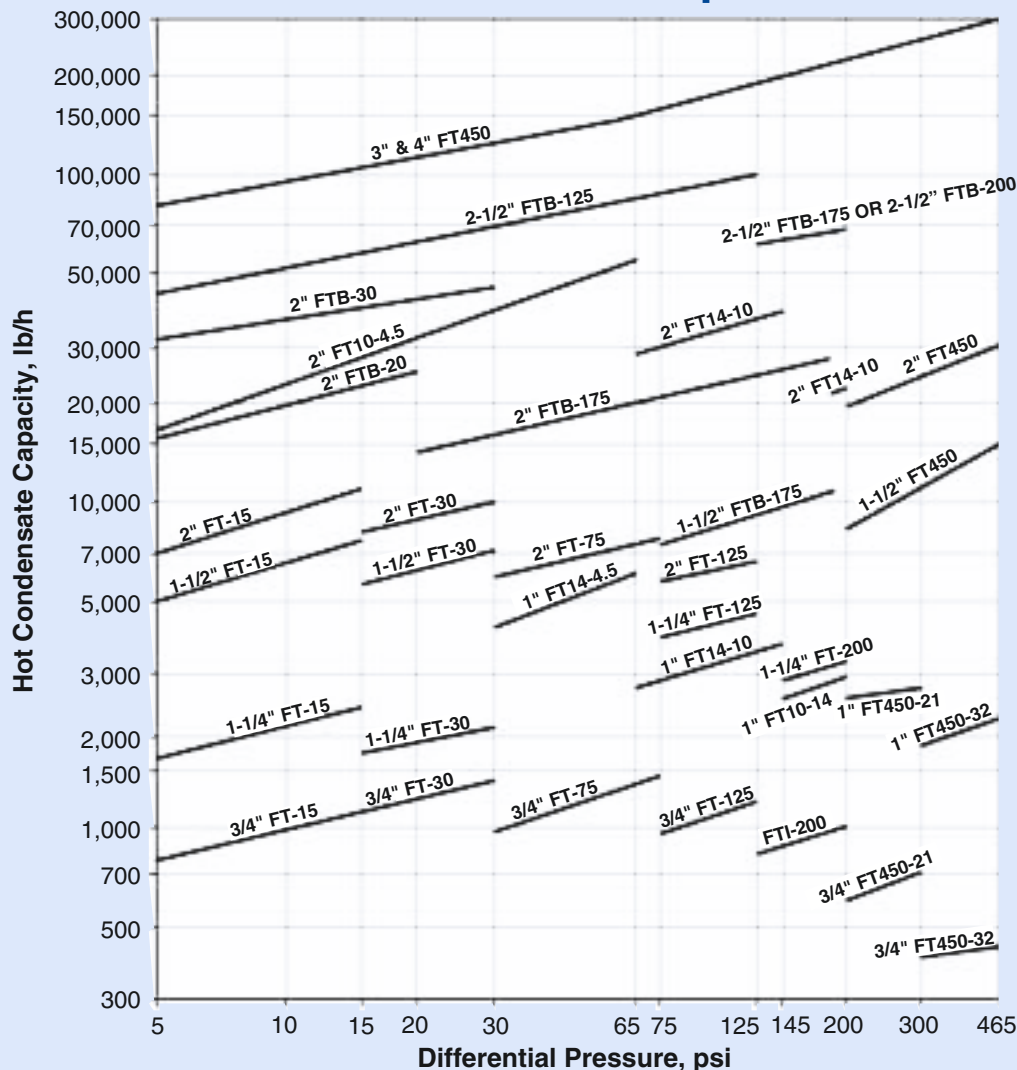
Example

A steam trap is required to drain 2,000 lb/h of condensate from a Unit Heater receiving steam at 100 psig. There is a lift after the trap of 10 ft.

Inlet Pressure	100 psig
Lift	10 ft. = 5 psi (approximately)
Therefore, Differential Pressure	100 psi - 5 psi = 95 psi
Quantity	2,000 lb/h
Safety Factor	2:1
Sizing Load	4,000 lb/h

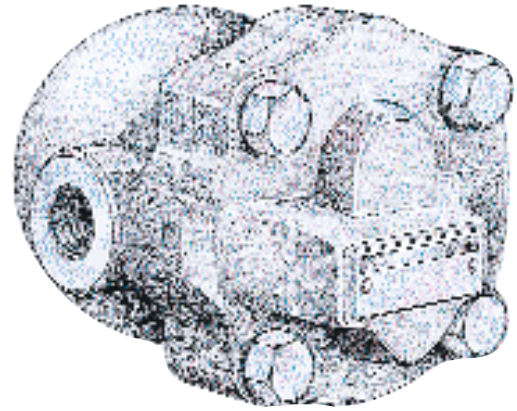
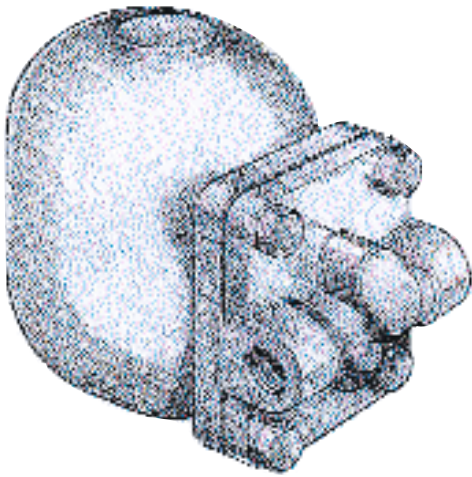
A 1-1/2" FT-125 will handle 4,120 lb/h at 95 psi differential pressure.

Float & Thermostatic Steam Trap Quick Selection Chart



This chart makes it possible to determine the most economical Spirax Sarco Float & Thermostatic Steam Trap with the required capacity at a given differential pressure. Note that the chart shows only the most economical choice. Other criteria such as body material, pressure rating, end connections or piping configuration may indicate another trap. In any case, the final selection should be based on the capacity and product data the appropriate Technical Information Sheet (TIS).

FT14



The FT14 features rugged cast iron (1") or ductile iron (1-1/2" and 2") construction for pressures up to 200 psig. The convenient in-line connections allow for servicing of all trap internals without removing the trap from the pipeline. The stainless steel air vent, float, and valve eliminate air binding, resist corrosion and allow for continuous drainage of condensate.

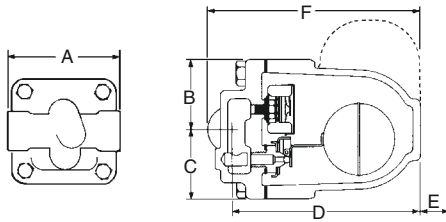
The FT14 1/2" & 3/4" sizes offers a compact Float & Thermostatic steam trap with in-line flow designed for horizontal or vertical piping. The rugged ductile iron construction is suitable for pressures up to 200 psig and capacities to 1,000 lb/hr. The stainless steel air vent, float, and valve eliminate air binding, resist corrosion and allow for continuous drainage of condensate.

FT14

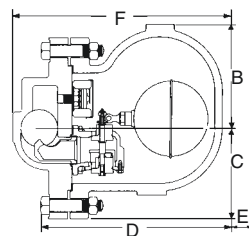
Sizes	1" HC, 1/2", 2"		
Body Material	Cast Iron (1"), Ductile Iron (1-1/2" & 2")		
Connections	NPT		
Piping Configuration	In-Line Horizontal		
Options	SLR with Air Vent		
TIS#	2.301		
Model	FT14-4.5	FT14-10	FT14-14
Maximum Operating Pressure (PMO)	65 psig	145 psig	200 psig

FT14

Sizes	1/2", 3/4"		
Body Material	Ductile Iron		
Connections	NPT		
Piping Configuration	In-Line Horizontal, Vertical		
Options	SLR with Air Vent		
TIS#	2.320		
Model	FT14-4.5	FT14-10	FT14-14
Maximum Operating Pressure (PMO)	65 psig	145 psig	200 psig



1" FT14

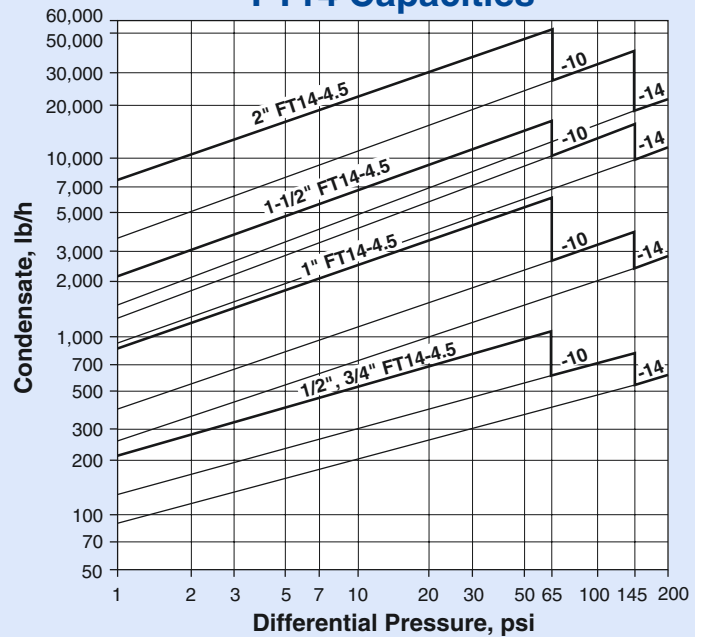


1-1/2" and 2" FT14

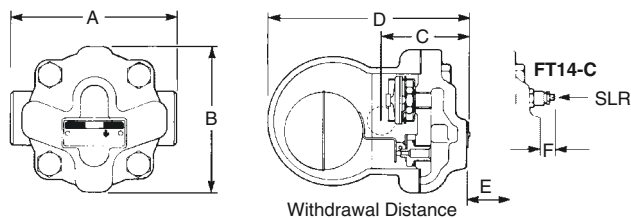
Dimensions (nominal) in inches

Size	A	B	C	D	E	F	Weight
1"	4.7	4.3	3.2	7.7	6.3	8.6	15.0 lb
1-1/2"	10.6	5.1	4.3	9.4	7.9	10.6	38.5 lb
2"	11.9	5.4	4.9	9.8	7.8	11.3	52.0 lb

FT14 Capacities



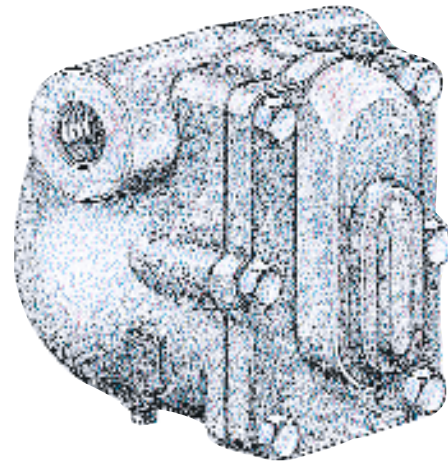
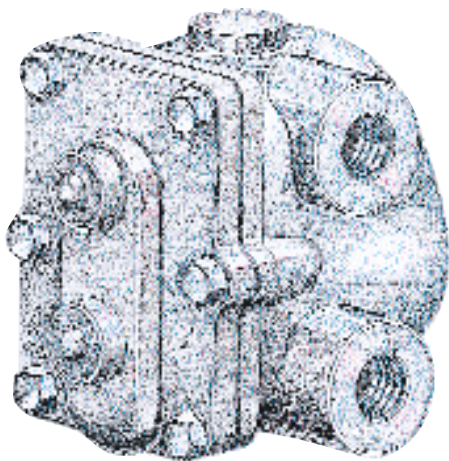
For complete capacity data, see TIS 2.306 and TIS 2.320 (FT14)



1/2" and 3/4" FT14

Dimensions (nominal) in inches

Size	A	B	C	D	E	F	Weight
1/2", 3/4"	4.8	4.2	2.6	5.8	4.1	1.2	6.4 lb



The FT and FTI Float & Thermostatic steam traps are traditional cast iron products available with either parallel (FT) or in-line (FTI) connections. These traps are offered for steam pressures up to 200 psig and condensate loads to 10,000 lb/hr. The stainless steel air vent, float, and valve eliminate air binding, resist corrosion and allow for continuous drainage of condensate.

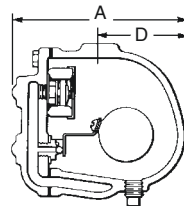
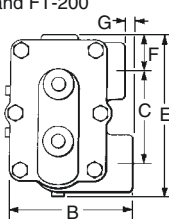
FT

Sizes	3/4", 1, 1 1/4, 1 1/2", 2"					
Body Material	Cast Iron					
Connections	NPT					
Piping Configuration	Parallel					
Options	Integral Vacuum Breaker SLR & Air Vent (Not for FT-150 & 200)					
TIS#	2.313 and 2.314					
Model	FT-15	FT-30	FT-75	FT-125	FT-150	FT-200
Maximum Operating Pressure (PMO)	15 psig	30 psig	75 psig	125 psig	150 psig	200 psig

*2" not available for FT-150 and FT-200

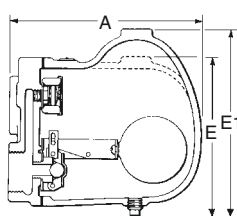
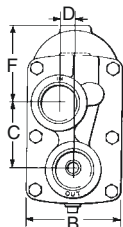
3/4", 1"
FT-15, 30, 75, 125

1-1/4"
FT-15, 30



1-1/2", 2"
FT-15, 30, 75, 125

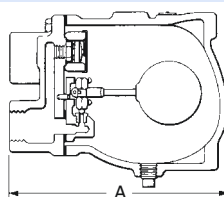
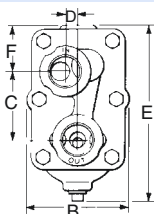
1-1/4"
FT-75, 125



Dimensions (nominal) in inches

Size	A	B	C	D	E	E1	F	G	Weight
3/4", 1"	6.2	4.6	3.3	3.0	5.75	—	1.3	0.3	9.0 lb
1 1/4", 1 1/2"	8.5	4.25	3.0	0.7	—	8.4	3.5	—	18.0 lb
2"	9.8	4.9	4.9	0.12	9.1	—	1.9	—	26.0 lb
*1 1/4" FT-15, FT-30	6.2	4.7	3	2.8	5.75	—	1.5	0.3	9.3 lb

FT-150, 200



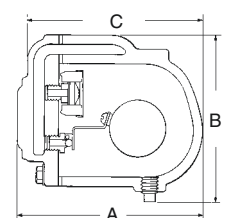
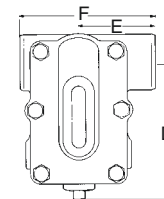
Dimensions (nominal) in inches

Size	A	B	C	D	E	F	Weight
3/4" 1"	8.5	3.9	2.6	0.4	6.9	1.8	15.0 lb
1 1/4", 1 1/2"	10.75	5.75	3.0	0.6	9.1	2.5	30.0 lb

FTI

Sizes	1/2", 3/4", 1				
Body Material	Cast Iron				
Connections	NPT				
Piping Configuration	In-Line Horizontal				
Options	SLR, Integral Vacuum Breaker				
TIS#	2.321				
Model	FTI-15	FTI-30	FTI-75	FTI-125	FTI-200
Maximum Operating Pressure (PMO)	15 psig	30 psig	75 psig	125 psig	200 psig

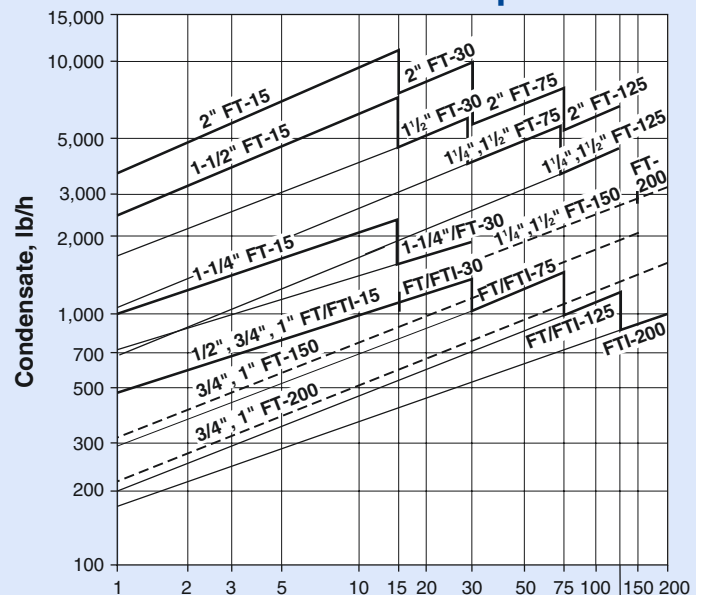
1/2", 3/4", 1" FTI



Dimensions (nominal) in inches

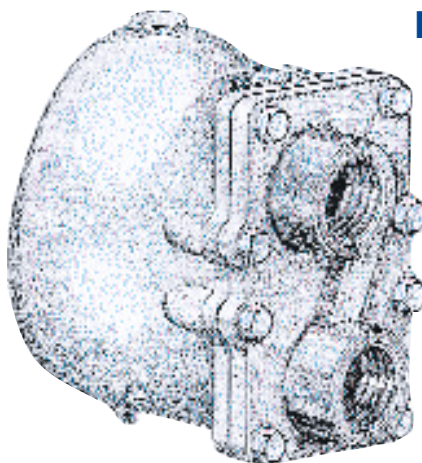
Size	A	B	C	D	E	F	Weight
1/2", 3/4", 1"	6.5	5.8	3.3	4.8	2.7	4.8	11.3 lb

1/2" to 2" FT/FTI Capacities



For complete capacity data, see TIS 2.317

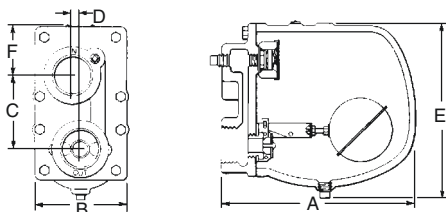
FTB



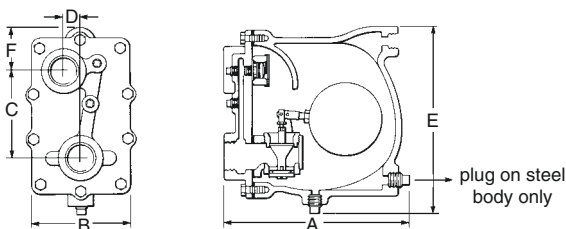
The FTB range of Super Capacity Float & Thermostatic steam traps are rugged cast iron products designed to handle large heat exchanger condensate loads to 100,000 lb/hr. The stainless steel air vent, float, and valve eliminate air binding, resist corrosion and allow for continuous drainage of condensate.

FTB

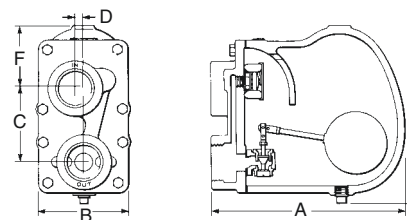
Sizes	FTB-20	FTB-30	FTB-125	FTB-175	FTB-200
	2"	2"	2 1/2"	1 1/2", 2", 2 1/2"	2 1/2"
Body Material	Cast Iron or Cast Steel 2 1/2" Size Only				
Connections	NPT		SW 2 1/2" Size Only		
Piping Configuration	Parallel				
Options	SLR and Air Vent (vary with model) Integral Vacuum Breaker				
TIS#	2.315				
Model	FTB-20	FTB-30	FTB-125	FTB-175	FTB-200
Maximum Operating	20 psig	30 psig	125 psig	175 psig	175 psig



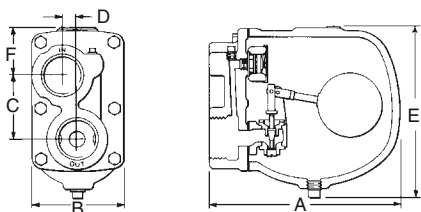
2" FTB-20



2" FTB-30 and 2-1/2" FTB-125, 175, 200, 2-1/2" FTB-200

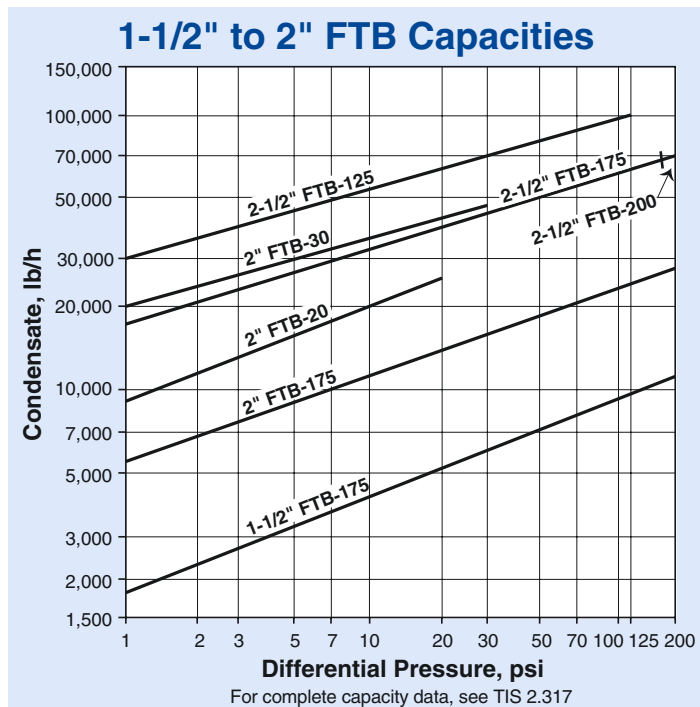


2" FTB-175

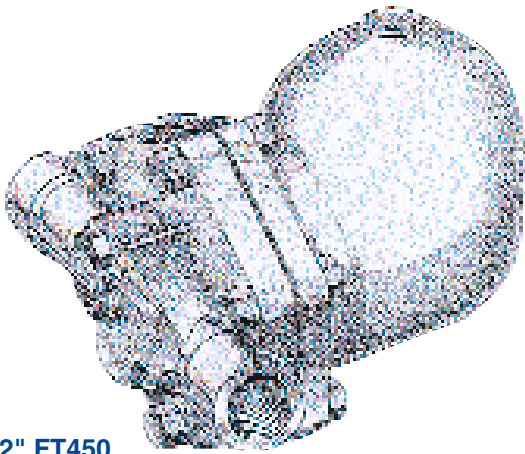


1-1/2" FTB-175

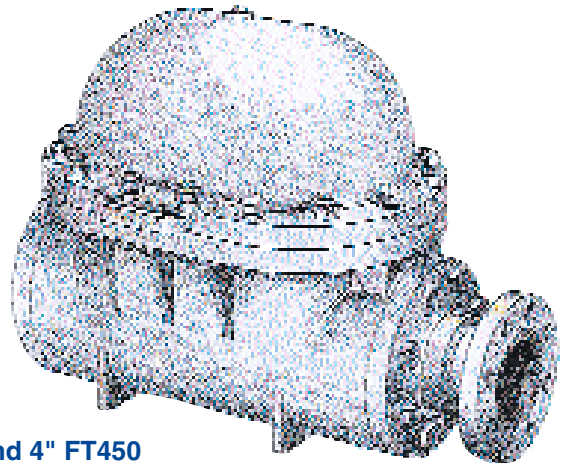
Dimensions (nominal) in inches							
Type & Size	A	B	C	D	E	F	Weight
2" FTB-20	12.2	5.9	4.5	0.5	10.7	3.0	43.0 lb
2" FTB-30	15.25	9.25	7.25	1.4	15.6	3.75	89.0 lb
2-1/2" FTB-125	15.6	9.25	7.25	1.4	15.6	3.75	90.0 lb
1-1/2" FTB-175	8.8	4.25	3.0	0.68	8.3	2.5	22.0 lb
2" FTB-175	12.1	5.9	4.5	0.5	11	4.0	48.0 lb
2-1/2" FTB-175	15.4	9.25	7.25	1.4	15.6	3.75	90.0 lb
2-1/2" FTB-200	15.4	9.35	6.9	1.4	14.4	4.0	112 lb



FT450



3/4" - 2" FT450

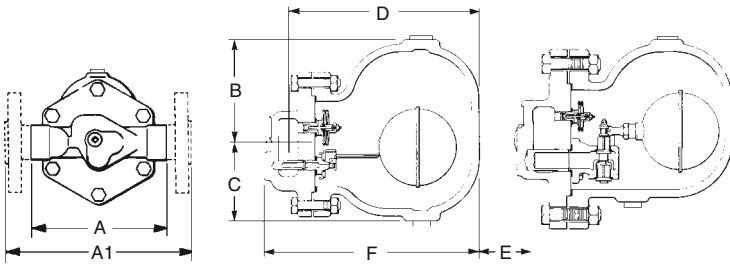


3" and 4" FT450

For processes that require pressures to 465 psig and/or steel construction, the FT450 offers the best solution. The FT450 is available in sizes ranging from 3/4" to 4" and with threaded, socket weld or flanged connections. The in-line design allows all internal parts to be serviced without removing the trap from the pipeline. The stainless steel air vent, float, and valve eliminate air binding, resist corrosion and allow for continuous drainage of condensate.

FT450

Sizes	3/4", 1, 1 1/2, 2"					3" & 4"
Body Material	Cast Steel					
Connections	NPT, SW, Flanged					
Piping Configuration	In-Line Horizontal					
Options	Stainless Steel Special Order					
TIS#	2.304					2.3041
Model: FT450	-4.5	-10	-14	-21	-32	FT450
Maximum Operating Pressure (PMO)	65 psig	145 psig	200 psig	300 psig	465 psig	465 psig

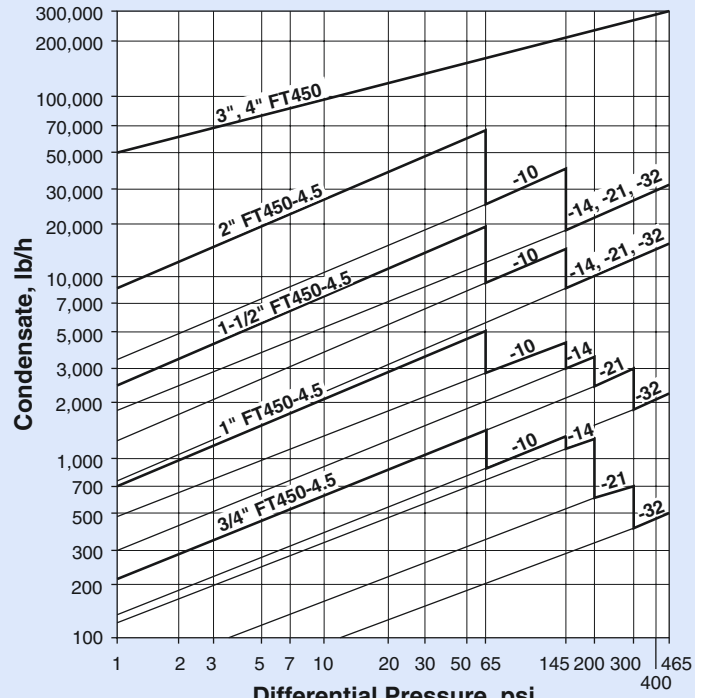


3/4", 1", 1-1/2", 2" FT450

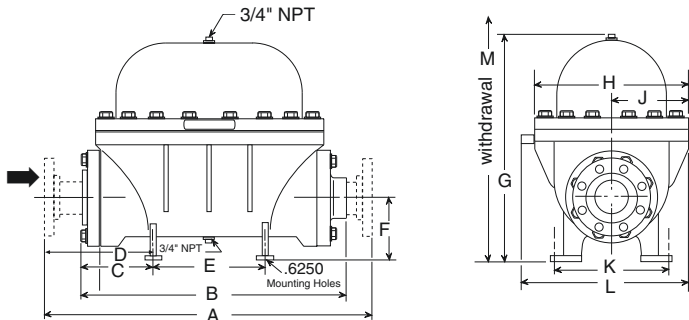
Dimensions (nominal) in inches

Size	A	A1	B	C	D	E	F	NPT/SW Flgd.
3/4"	6.1	10.1	3.0	3.1	6.4	4.7	7.4	18.0 lb 23.8 lb
1"	6.5	10.4	5.0	3.8	8.2	6.3	9.2	28.0 lb 33.0 lb
1-1/2"	9.8	14.0	5.6	3.6	9.8	7.7	11.1	55.1 lb 64.0 lb
2"	11.8	16.0	6.0	4.0	10.0	7.7	11.6	68.0 lb 82.0 lb

FT450, FT46 Capacities



For complete capacity data, see TIS 2.308 and TIS 2.3041 (3" & 4")

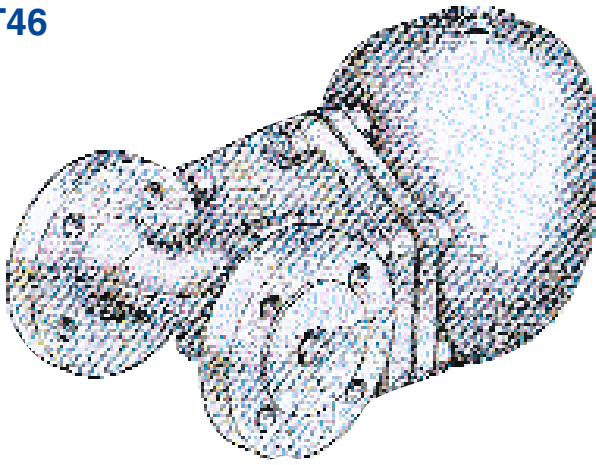


3" and 4" FT450

Dimensions (nominal) in inches

Size	A	B	C	D	E	F	G	H	J	K	L	M	Weight
3"	39.0	27.75	7.56	15.5	12.0	6.75	23.7	16.0	8.0	11.5	17.5	32.0	485.0 lb
4"	39.0	—	7.56	15.5	12.0	6.75	23.7	16.0	8.0	11.5	17.5	32.0	485.0 lb

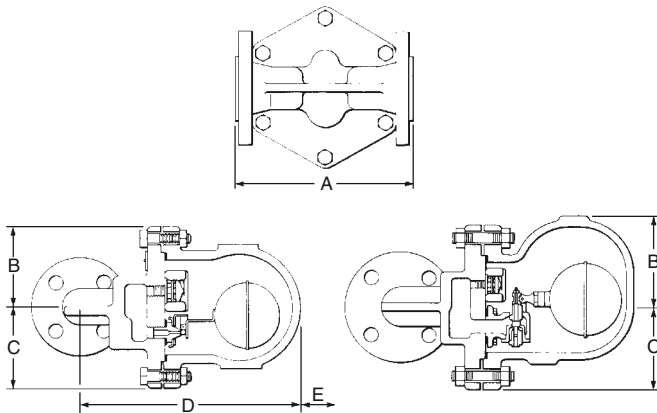
FT46



The FT16 and FT46 Float & Thermostatic steam traps are designed for clean steam and other systems requiring stainless steel construction. These traps are available with convenient in-line connections for ease of maintenance and either flanged (FT46) or threaded (FT16) connections. The stainless steel air vent, float, and valve eliminate air binding, resist corrosion and allow for continuous drainage of condensate.

FT46

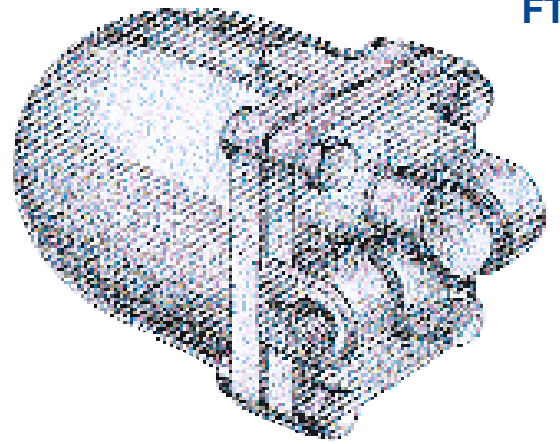
Sizes	1/2", 3/4", 1, 1 1/2", 2"			
Body Material	Stainless Steel			
Connections	Flanged			
Piping Configuration	In-Line Horizontal			
Options	N/A			
TIS#	2.318			
Model	FT46-4.5	FT46-10	FT46-14	FT46-21
Maximum Operating Pressure (PMO)	65 psig	145 psig	200 psig	300 psig



FT46

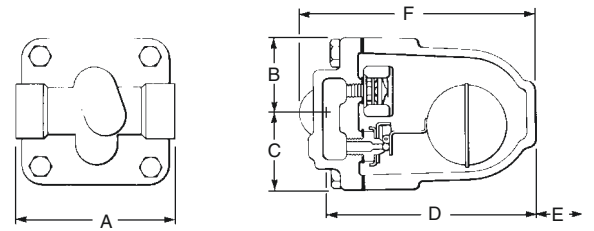
Dimensions (nominal) in inches						
Size/DN	A	B	C	D	E	Weight
1/2"	5.8	3.2	3.2	8.4	4.7	23.8 lb
3/4"	5.8	3.2	3.2	8.8	4.7	23.8 lb
1"	6.2	4.5	3.4	10.8	6.7	33.0 lb
1-1/2"	9.0	4.8	4.5	12.7	7.9	72.8 lb
2"	9.0	5.5	4.8	12.9	7.9	94.8 lb

FT16



FT16

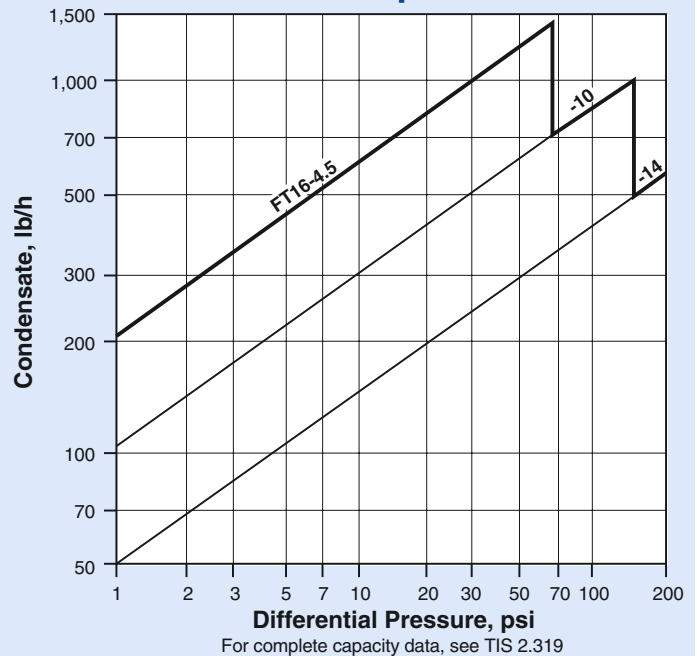
Sizes	1/2", 3/4"		
Body Material	Stainless Steel		
Connections	NPT		
Piping Configuration	In-Line Horizontal		
Options	N/A		
TIS#	2.319		
Model	FT16-4.5	FT16-10	FT16-14
Maximum Operating Pressure (PMO)	65 psig	145 psig	200 psig



1/2" and 3/4" FT16

Dimensions (nominal) in inches							
Size	A	B	C	D	E	F	Weight
1/2", 3/4"	4.7	2.1	2.1	5.8	4.3	6.7	9.0 lb

FT16 Capacities



Steam Trap Selection Guide

As the USA's leading provider of steam system solutions, Spirax Sarco recognizes that no two steam trapping systems are identical. Because of the wide array of steam trap applications with inherently different characteristics, choosing the correct steam trap for optimum performance is difficult. Waterhammer, superheat, corrosive condensate, or other damaging operating characteristics dramatically affect performance of a steam trap. With over 80 years of experience in steam technology, Spirax Sarco is committed to helping it's customers design, operate and maintain an efficient steam system. You have our word on it!

Application	1st Choice						2nd Choice					
	Float & Thermostatic	Thermo-Dynamic®	Balanced Pressure	Bimetallic	Liquid Expansion	Inverted Bucket	Float & Thermostatic	Thermo-Dynamic®	Balanced Pressure	Bimetallic	Liquid Expansion	Inverted Bucket
Steam Mains	to 30 psig ✓											✓
	30-400 psig	✓										✓
	to 600 psig	✓										✓
	to 900 psig	✓										✓
	to 2000 psig	✓										✓
	with Superheat	✓							✓			
Separators	✓											✓
Steam Tracers	Critical	✓						✓				
	Non-Critical		✓						✓			
Heating Equipment												
	Shell & Tube Heat Exchangers	✓										✓
	Heating Coils	✓										✓
	Unit Heaters	✓										✓
	Plate & Frame Heat Exchangers	✓										✓
	Radiators		✓									
General Process Equipment	to 30 psig	✓										✓
	to 200 psig	✓										✓
	to 465 psig	✓										✓
	to 600 psig					✓						
	to 900 psig					✓						
	to 2000 psig					✓						
Hospital Equipment	Autoclaves	✓						✓				
	Sterilizers	✓						✓				
Fuel Oil Heating	Bulk Storage Tanks		✓				✓					
	Line Heaters	✓										
Tanks & Vats	Bulk Storage Tanks		✓				✓					
	Process Vats	✓						✓				
Vulcanizers			✓				✓					
Evaporators		✓										✓
Reboilers		✓										✓
Rotating Cylinders		✓										
Freeze Protection					✓							

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