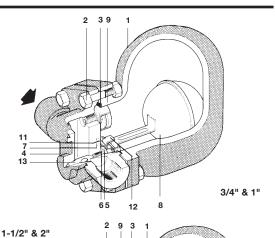
spirax sarco

Cast Steel Float & Thermostatic Steam Trap FT450

The trap contains a float valve mechanism which modulates to discharge condensate continuously at steam temperature, while	Model	FT 450 (Replaces FT 32)				
	РМО	465 psig (see below)				
	Sizes	3/4" to 2"				
non-condensible gases are released	Connections	NPT Carbon Steel Body				
by a separate internal balanced pressure	Construction	Stainless Steel Internals				
thermostatic air vent.	Options	ANSI 150, 300 or 600 RF flanged SW Connections to ANSI B16.11 Bimetal Air Vent on 4.5, 10, 14, 21 and 32 Drain plug tapped 1/2" NPT models for superheat operation.				



Construction Materials

No.	Part	Material						
1	Body	Cast Steel	ASTM A216 WCB					
2	Cover Bolts	Alloy Steel	ASTM A 193 B7					
	Cover Nuts 3/4" & 1"	7/16 - 14 UNC-2A	ASTM A 194 2H					
	1-1/2" & 2"	5/8-11UNC-2A						
3	Cover Gasket	Exfoliated Graphite						
4	Cover	Cast Steel	ASTM A216 WCB					
5	Valve Seat (3/4" & 1")	Stainless Steel						
	Main Valve Assembly	Stainless Steel						
	w/ erosion deflector (1-1/2"	& 2")						
6	Valve Seat Gasket	Stainless Steel						
	(3/4" & 1")		Stainless Steel Reinforced Exfoliated Graphite					
	Main Valve Assy	Stainless Steel Reinforce						
	Gasket 1-1/2" & 2"							
7	Pivot Frame Assy	Stainless Steel						
	Set Screws (3/4" & 1")	10-24 Fillister Head						
	Main Valve Assembly	Stainless Steel						
	Cap Screws (1-1/2")	1/4-20						
	Studs & Nuts (2")	5/16-18	5/16-18					
8	Ball Float & Lever	Stainless Steel	Stainless Steel					
9	Air Vent Assembly	Standard Stainless Steel						
9A	Optional Bimetal	Corrosion resistant Bim	etal					
		and Stainless Steel						
10	Air Vent Seat Gasket	Stainless Steel						
11	Support Frame	Stainless Steel						
12	Pivot Frame	Stainless Steel						
13	Erosion Deflector	Stainless Steel						
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Thermostatic Air Vent	Operating Range	duct must not be used in this re						
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			1 . 1 . 1 . 1 1					

Capacities: See TIS 2.308

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imiting Operating Conditions*

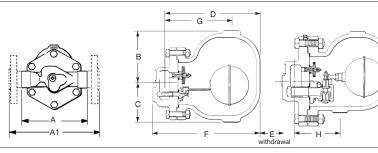
	g oonanaono						
Max. Operating Pressur	e FT450-4.5: 6	FT450-4.5: 65 psig (4.5 barg)					
(PMO)	FT450-10: 14	FT450-10: 145 psig (10 barg)					
_	FT450-14: 20	00 psig (14 barg)					
-	FT450-21: 30	FT450-21: 300 psig (21 barg)					
_	FT450-32: 46	FT450-32: 465 psig (32 barg)					
Max. Operating Tempera	ture Bimetal optic	Bimetal optional air vent					
 See graph for thermost 	atic 750°F (400°C	750°F (400°C) at operating					
air vent	pressures be	low 505 psig					
 Pressure Shell Design Conditions For NPT, SW, ANSI300, ANSI600* 							
	35 psig/650°F	37 barg/342°C					
Max. allowable pressure 5	05 psig/750°F	35 barg/400°C					
TMA 7 Max. allowable temperature	50°F/0-505 psig	400°C/0-34 barg					
* The limiting operating and o will be limited by the Flange	0	ANSI 150 flanged units					

Typical Applications

All process equipment, particularly when controlled by modulatng temperature control valves; unit heaters, air heating coils, heat exchangers and steam main drip stations.

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.

Cast Steel Float & Thermostatic Steam Trap FT450



Dimensions (nominal) in inches and millimeters

Size-DN	Α	A1	в	С	D	Е	F	G	н	NPT/SW	Flg
3/4" 20	6.1 155	10.1 255		3.1 79	6.4 163	4.7 120	7.4 189	4.0 102	-	18.0 lb 8.2 kg	23.8 lb 10.8 kg
1" 25	6.5 165	10.4 264		3.8 97	8.2 208	6.3 160	9.2 234	5.8 147	-	28.0 lb 12.7 kg	33 lb 15 kg
1-1/2" 40	9.8 250	14.0 356		3.6 92	9.8 250		11.1 282			55.1 lb 25.0 kg	64.0 lb 29.0 kg
2" 50		16.0* 406*		4.0 102	10.0 255		11.6 295		6.0 152	68.0 lb 31.0 kg	82.0 lb 37.3 kg

*ANSI 600 16.5" 419 mm

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.

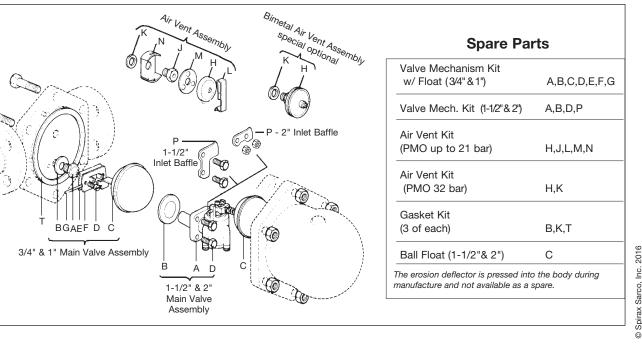
Complete installation and maintenance instructions are given in IMI 2.300, which accompanies the product.

Sample Specification

Steam traps shall be of the mechanical ball float type having steel bodies, horizontal line connections, and stainless steel valve heads, seats and ball floats. 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 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 body. Refer to IMI 2.300 for complete instructions.



Sarco, Inc. Spirax

TI-2-304-US 4.16