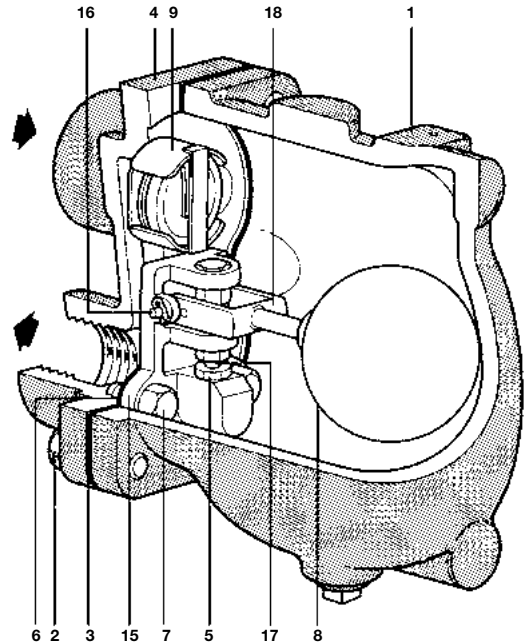


spirax sarco

Cast Iron Float & Thermostatic Steam Traps FT-150, FT-200

The trap contains a float valve mechanism which modulates to discharge condensate continuously at steam temperature, while non-condensable gases are released by a separate internal balanced pressure thermostatic air vent.

| Model | FT-150 | FT-200 |
|---------------------|---|----------|
| PMO | 150 psig | 200 psig |
| Sizes | 3/4", 1", 1-1/4", 1-1/2" | |
| Connections | NPT | |
| Construction | Cast Iron Body & Cover Stainless Steel Internals | |
| Option | Gauge Glass Vacuum Breaker | |



Limiting Operating Conditions

Max. Operating Pressure (PMO) FT-150: 150 psig (10.3 barg)
FT-200: 200 psig (13.8 barg)

Max. Operating Temperature 450°F (232°C) at all operating pressures

Pressure Shell Design Conditions

PMA 200 psig/up to 450°F 13.8 barg/up to 232°C
Max. allowable pressure

TMA 450°F/0-200 psig 232°C/0-13.8 barg
Max. allowable temperature

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

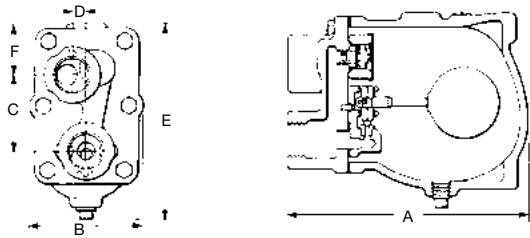
For Capacities, see TIS 2.317.

Construction Materials

| No. | Part | Material | |
|-----|-------------------------|--|----------------|
| 1 | Body | Cast Iron | ASTM A126 CL B |
| 2 | Cover Screws | Carbon Steel | ASTM A449 |
| 3 | Cover Gasket | Graphite | |
| 4 | Cover | Cast Iron | ASTM A126 CL B |
| 5 | Valve Seat | Stainless Steel | |
| 6 | Main Valve Assy Gasket | Graphite | |
| 7 | Main Valve Assy Screws | Copper Alloy | |
| 8 | Ball Float | Stainless Steel | |
| 9 | Air Vent Assembly | Stainless Steel | |
| | Air Vent Head | Stainless Steel | |
| | Air Vent Seat | Stainless Steel | |
| 15 | Main Valve Assy Housing | Cast Red Brass | |
| 16 | Pivot Pin | Stainless Steel | |
| 17 | Valve Head | Stainless Steel | |
| 18 | Float Arm | Forged Brass (3/4", 1") Cast Red Brass (1-1/4", 1-1/2") | |

Iron Float & Thermostatic Steam Traps

FT-150, FT-200



| Dimensions (nominal) in inches and millimeters | | | | | | | |
|---|--------------|-------------|-----------|-----------|------------|-----------|------------------|
| Size | A | B | C | D | E | F | Weight |
| 3/4", 1" | 8.5 216 | 3.9 100 | 2.6 65 | 0.4 9 | 6.9 175 | 1.8 46 | 15 lb 6.8 kg |
| 1-1/4", 1-1/2" | 10.75 273 | 5.75 146 | 3 76 | 0.6 14 | 9.1 232 | 2.5 64 | 30 lb 13.6 kg |

Sample Specification

Steam traps shall be of the mechanical ball float type having cast iron bodies, NPT connections, and stainless steel valve heads and seats. Incorporated into the trap body shall be a stainless steel balanced pressure thermostatic air vent capable of withstanding 450°F steam 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

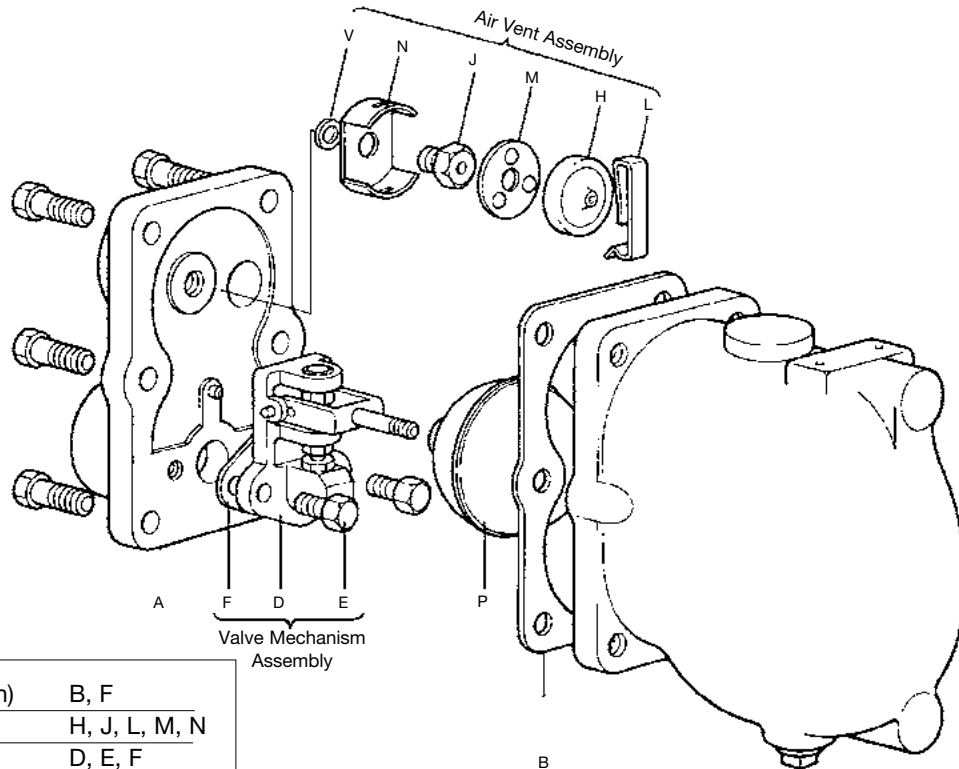
This product can be maintained without disturbing the piping connections. Complete isolation from both supply and return line is required before any servicing is performed.

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 |
| Valve Mechanism Kit (less float) | D, E, F |
| Float Kit | P |

TI-2-314-US 9.18