

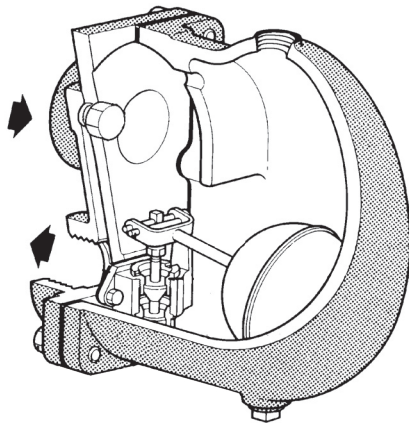


Iron Liquid Drain Traps FAB Super Capacity Series

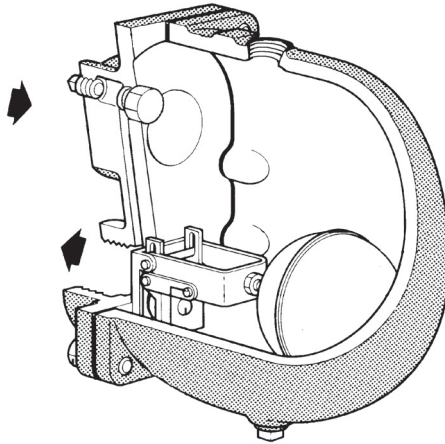
Description

The float-operated liquid drain trap discharges continuously in direct response to variations in liquid flow rate, assuring thorough drainage of the system.

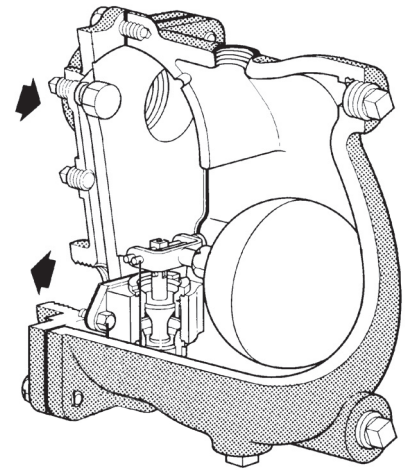
2" FAB-10



1½" FAB-125
 2" FAB-175



2½" FAB-75



| | | | | | |
|---------------------|---------------------------|--|---------------|----------------|---|
| Model | FAB-10 | FAB-150 | FAB-75 | FAB-175 | Note: FAB-75, FAB-150 and FAB-175 valves are double-seated and may not shut tight under no-load conditions. Normally, the liquid load will always be greater than the small residual leakage. |
| Sizes | 2" | 1½" | 2½" | 2" | |
| Connections | NPT | | | | |
| Construction | Cast Iron Body | | | | |
| | Stainless Steel Internals | Stainless Steel valve head & seat Brass valve housing | | | |
| Options | Gauge glass | | | | |

Typical applications

Receiver and air line drainage, draining a liquid from its vapor phase.

Limiting operating conditions

Maximum Operating Pressure (PMO) Up to 175 psig.
 The PMO depends on the model selected and the specific gravity of the liquid being drained. See TI-7-318-US.

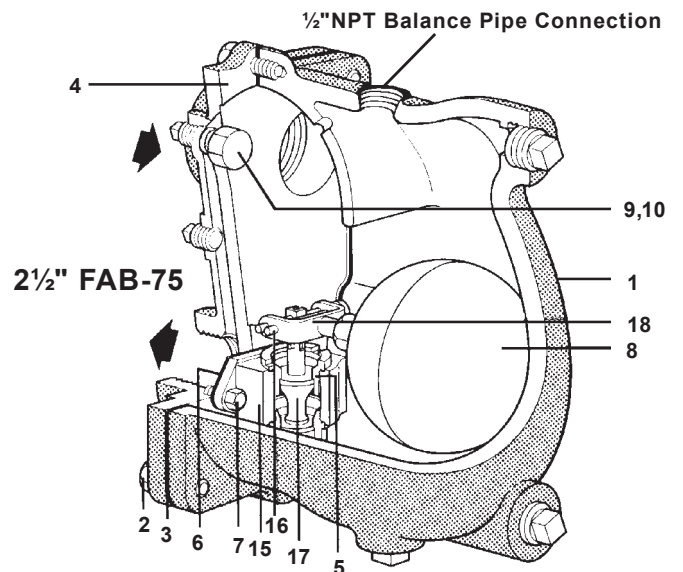
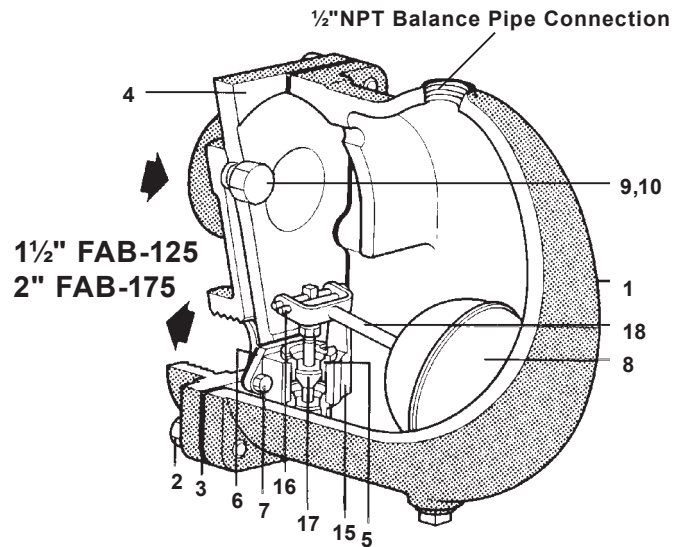
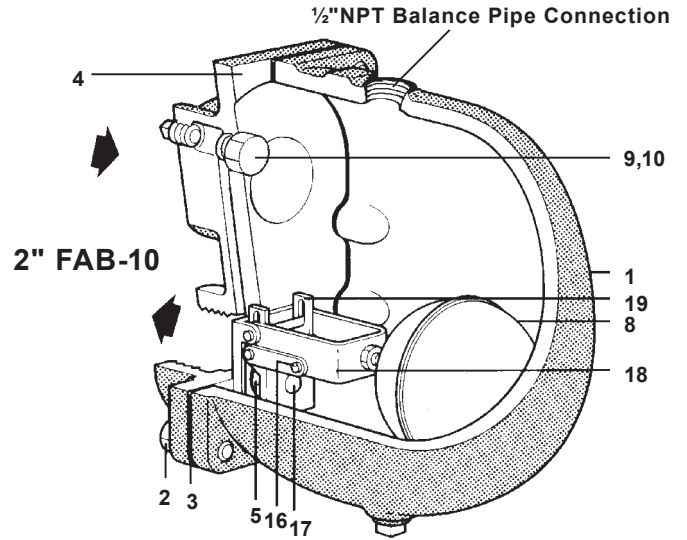
Maximum Operating Temperature 450 °F (232 °C)

Pressure shell design conditions

| | | | |
|-----|-------------------------------|------------------|---|
| PMA | Maximum allowable pressure | FAB-75, 150, 175 | 175 psi g/0-450 °F (12 bar g/0-232 °C) |
| | | FAB-10 | 125 psi g/0-450 °F (9 bar g/0-232 °C) |
| TMA | Maximum allowable temperature | FAB-75, 150, 175 | 450° F/0-175 psi g (232 °C/0-12 bar g) |
| | | FAB-10 | 450° F/0-125 psi g (232 °C/0-9 bar g) |

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 | Type 303 |
| 6 | Valve Seat Gasket (FAB-10) | Stainless Steel | Type 302 |
| 6 | Valve Assembly Gasket | Graphite | |
| 7 | Main Valve Assembly Screws | Copper Alloy Everdur 1015 | |
| 8 | Float | Stainless Steel | Type 304 |
| 9 | Plug | Brass | ASTM B16 |
| 10 | Plug Gasket | Stainless Steel | ASTM A240 |
| 15 | Main Valve Assy. Housing | Stainless Steel | ASTM A743 CF8M |
| 16 | Pivot Pin | Stainless Steel | Type 303 |
| 17 | Valve Head (FAB-10, 150, 175) | Stainless Steel | Type 303 ASTM A351GR. CF8M |
| 18 | Float Arm | Stainless Steel | Type 301 |
| 19 | Seat Bracket (FAB-10) | Stainless Steel | Type 304 |
| 19 | Head Bracket, Stop, Link (FAB-10) | Stainless Steel | Type 301 |



Dimensions/weights

(nominal) in inches (mm) and lbs (kg)

| Type & Size | A | B | C | D | E | F | Weight |
|-----------------------|------|------|------|------|------|------|---------|
| FAB-10 2" | 12.2 | 5.9 | 4.5 | 0.5 | 10.7 | 3 | 43 lb |
| | 309 | 149 | 114 | 13 | 271 | 76 | 19.5 kg |
| FAB-150 1½" | 8.8 | 4.25 | 3 | 0.68 | 8.3 | 2.5 | 22 lb |
| | 224 | 108 | 76 | 17 | 211 | 64 | 10.0 kg |
| FAB-175 2" | 12.1 | 5.9 | 4.5 | 0.5 | 11 | 4 | 48 lb |
| | 306 | 149 | 114 | 13 | 279 | 102 | 21.8 kg |
| FAB-75 2½" | 15.4 | 9.25 | 7.25 | 1.4 | 15.6 | 3.75 | 90 lb |
| | 390 | 235 | 184 | 35 | 397 | 95 | 40.8 kg |

Capacity

The discharge capacity depends on the differential pressure (inlet pressure minus outlet pressure) and the specific gravity of the liquid being drained. See TIS 7.318.

Sample specification

The liquid drain trap shall be of the float type with screwed NPT connections. Float and valve heads and seats shall be stainless steel. An NPT tapping shall be provided for a balance pipe. All internals shall be renewable and field serviceable.

Installation

The trap must be fitted in a horizontal pipe line with direction of flow as indicated and so that the float mechanism is free to rise and fall in a vertical plane.

The high point of the body is provided with an NPT tapping for a balance pipe, which is essential for satisfactory operation of this unit. The balance pipe must be connected with a continuous rise between the tapping provided on the body of the trap and the vessel being drained. The trap discharge should be piped to a safe place.

Maintenance

This product can be maintained without disturbing the piping connections. Complete isolation of the trap 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.

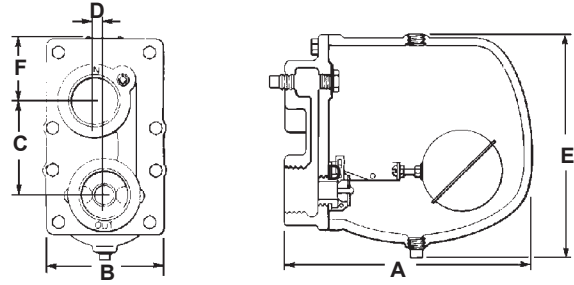
Worn or damaged parts should be replaced using a complete repair kit.

Complete installation and maintenance instructions are given in IM-7-306-US which accompanies the product.

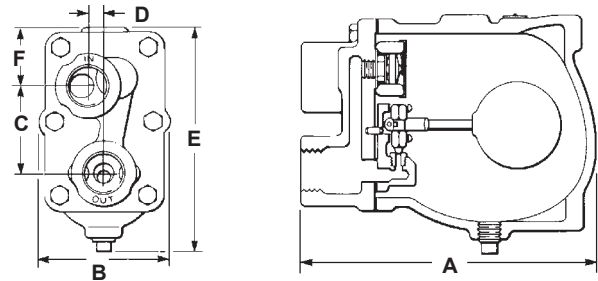
Liquid drain traps can be used to drain most liquids from most gases. However, some applications, particularly those involving hazardous or unusual fluids, may be subject to regulation or may otherwise require special consideration.

Spirax Sarco will endeavor to provide whatever data is necessary to assist in product selection.

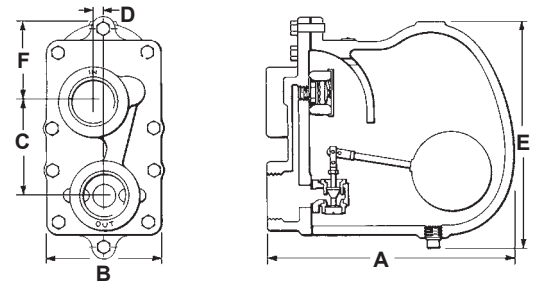
2" FAB-10



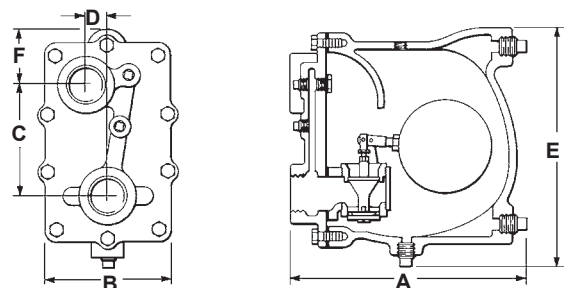
1½" FAB-150



2" FAB-175

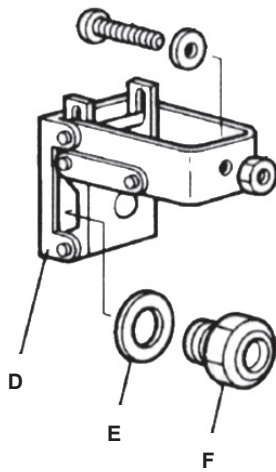
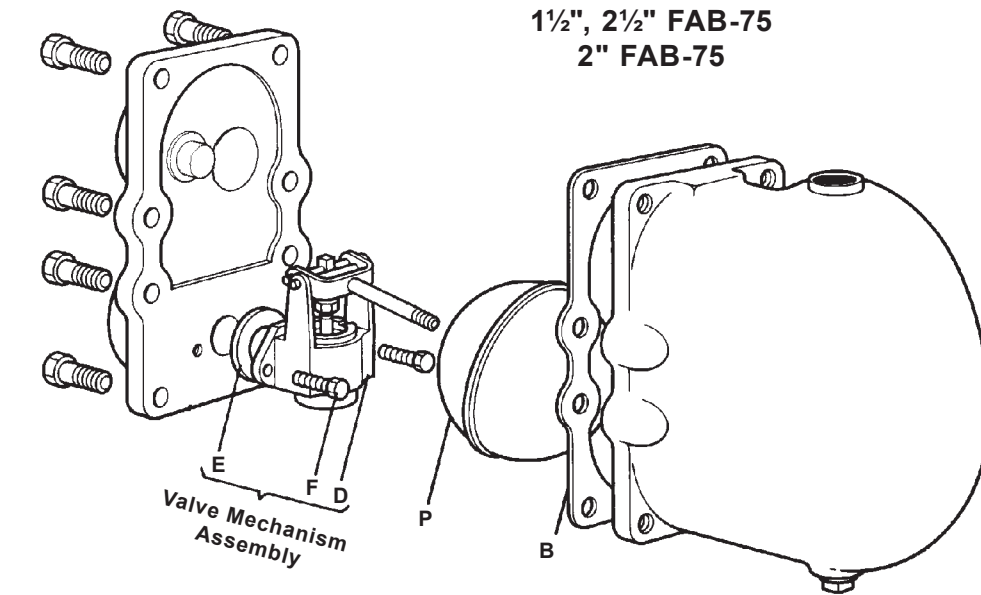


2½" FAB-75



Spare parts

| | |
|---|---------|
| Gasket Kit (set of 3 cover and Mechanism Gaskets) | B, E |
| Valve Mechanism Kit (less float) | D, E, F |
| Float Kit | P |



2" FAB-10
Valve Mechanism Kit