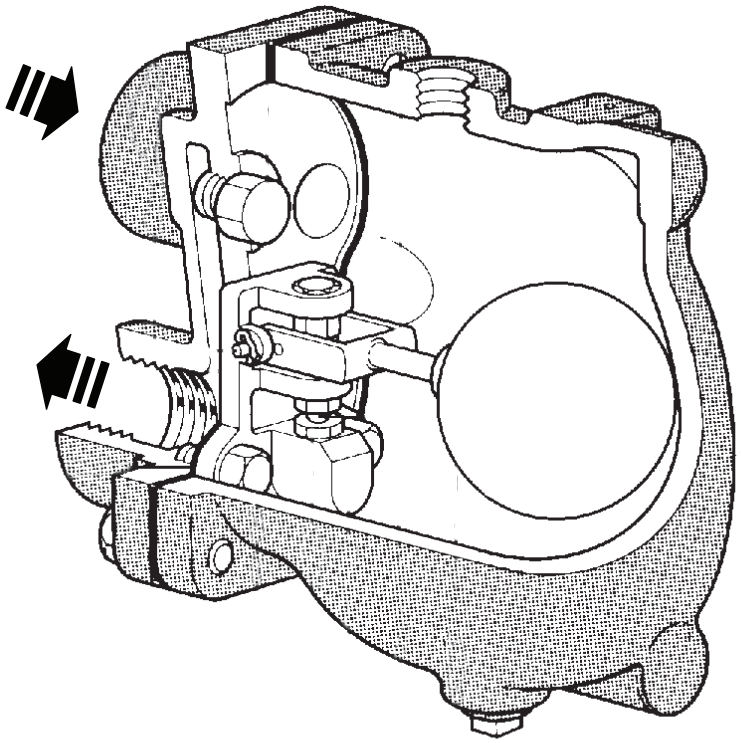
Iron Liquid Drain Trap
FA-200

Description

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

Model	FA-200
PMO	200 psi g (14 bar g)
Sizes	1" and 1½"
Connections	NPT
Construction	Cast Iron



Typical applications

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

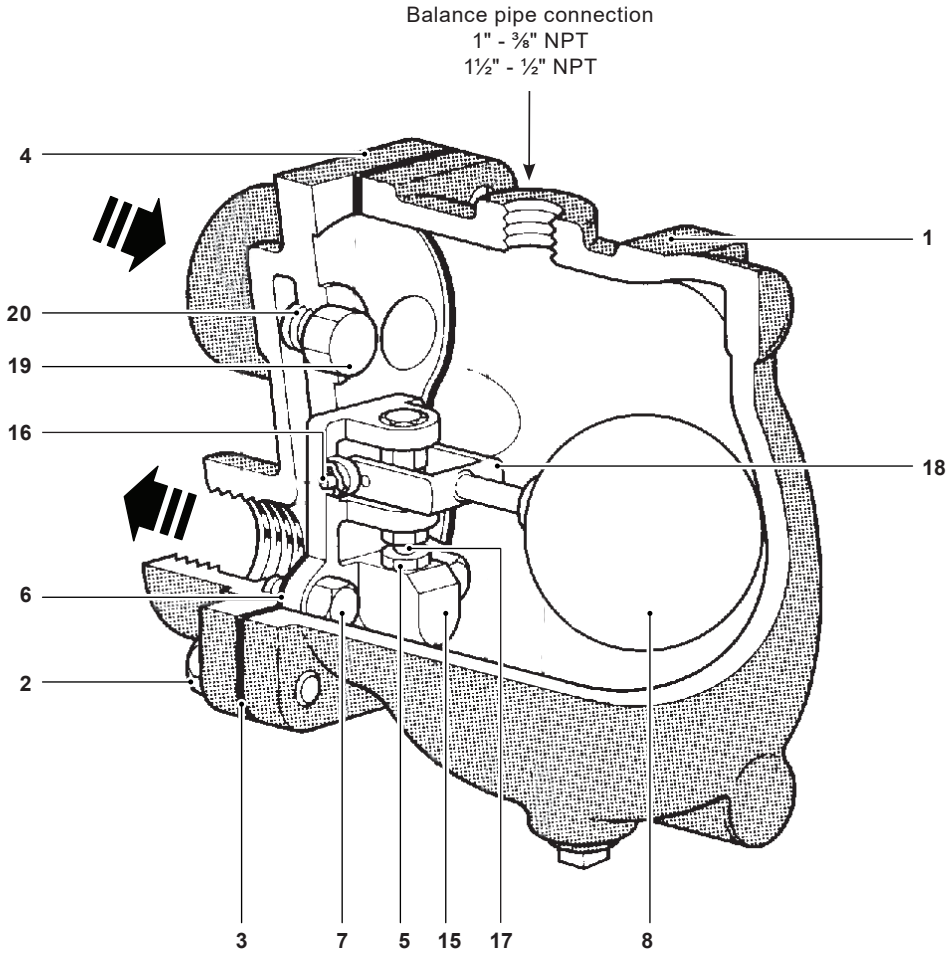
Limiting operating conditions

PMO	Maximum operating pressure	Up to 200 psi g (14 bar g). The PMO depends on the model selected and the specific gravity of the liquid being drained. See TI-P102-04-US	
Maximum operating temperature		450 °F	(232 °C)

Pressure shell design conditions

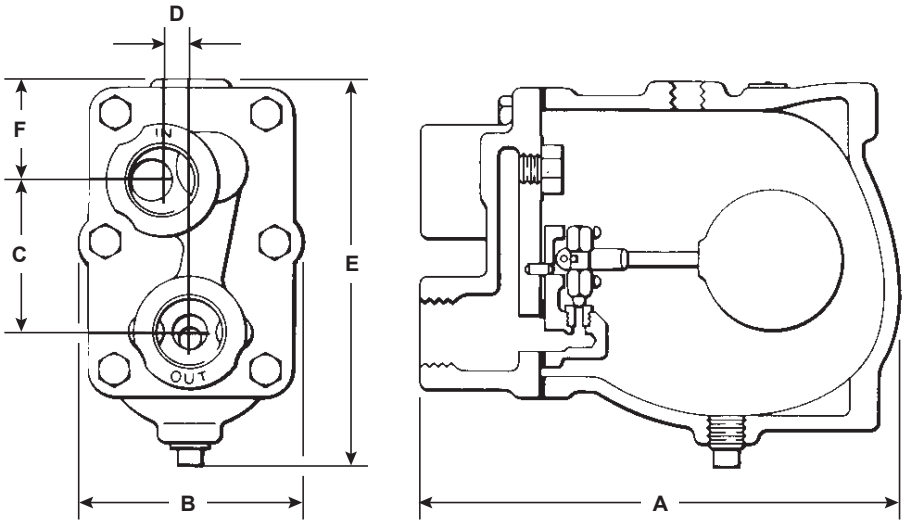
PMA	Maximum allowable pressure	200 psi g @ 450 °F (14 bar g @ 232 °C)
TMA	Maximum allowable temperature	450 °F @ 200 psi g (232 °C @ 14 bar g)

Materials



No.	Part	Material	
1	Body	Cast Iron	ASTM A126 CL B
2	Cover Screws	Steel	ASTM A449
3	Cover Gasket	Graphite	
4	Cover	Cast Iron	ASTM A126 CL B
5	Valve Seat	Stainless Steel	(1") AISI 304 (1½") AISI 303
6	Main Valve Assembly Gasket		Graphite
7	Cap Screw	Copper Alloy	Everdur 1015 or ASTM B 97-S1 Alloy B14
8	Float	Stainless Steel	AISI 304
15	Main Valve Assembly Housing	Cast Brass	ASTM B 62
16	Pivot Pin	Stainless Steel	AISI 303
17	Valve Head	Stainless Steel	(1") AISI 304 (1½") AISI 303
18	Pivot Rod	Die Forged Brass	(1") ASTM B 124
		Cast Brass	(1½") ASTM B62
19	Plug	Brass	ASTM B16
20	Plug Gasket	Stainless Steel	ASTM A240

Dimensions/weights (approximate) in inches (mm) and lbs (kg)



Size	A	B	C	D	E	F	Weight
1"	8.5 (216)	3.9 (99)	2.6 (66)	0.37 (9)	6.9 (175)	1.8 (46)	15 lb (6.8 kg)
1½"	10.75 (273)	5.75 (146)	3 (76)	0.56 (14)	9.1 (231)	2.5 (64)	30 lb (13.6 kg)

Capacity

The dischrage capacity depends on the differential pressure (inlet pressure minus outlet pressure) and the specific gravity of the liquid being drained. See TI-P102-04-US.

Sample specification

The liquid drain trap shall be of the float type with screwed NPT connections. Float and valve head and seat shall be stainless steel designed to retain a water seal at all times. An NPT tapping shall be provided for a balance pipe. All internals are to be renewable and field serviceable.

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.

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. Full-flow isolating valves should be placed to permit servicing. 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.

Spare parts

Gasket kit (set of 3)	**1A**
Valve mechanism kit (less float)	**4, 4A**
Float kit	**5**