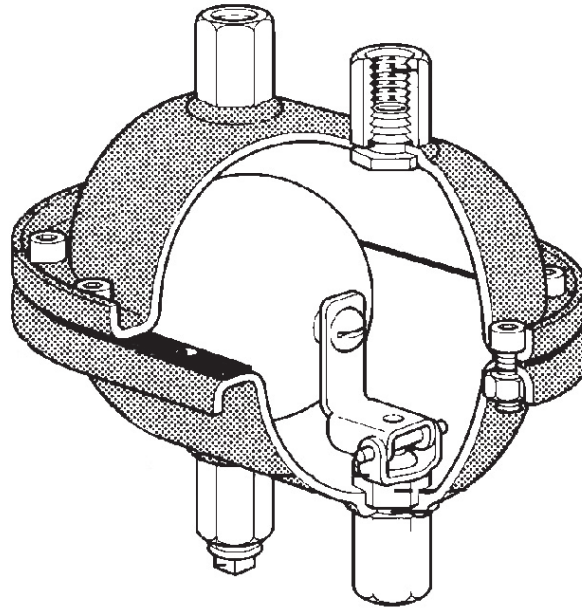




Stainless Steel Liquid Drain Trap FA-150



Description

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

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. An EPDM valve options is available for applications in which bubble tight shut off is required.

Model	FA-150
PMO	150 psi g
Sizes	1/4"
Connections	NPT
Construction	Stainless Steel Body and Internals
Options	EPDM Valve Assembly

Certifications

Material Certifications to EN 10204 2.2 for body and cover

Limiting operating conditions

PMA	Maximum allowable pressure	150 psi g/0-250 °F	10 bar g/0-121 °C
TMA	Maximum allowable temperature	250 °F/0-150 psi g	121 °C/0-10 bar g

Pressure shell design conditions

	Specific Gravity	psi g	bar g
	1.0	150	10.3
	.95	135	9.3
	.90	119	8.2
	.85	104	7.1
PMO	Maximum operating pressure	.80	89
		.75	73
		.70	58
		.65	43
		.60	25
		.55	12

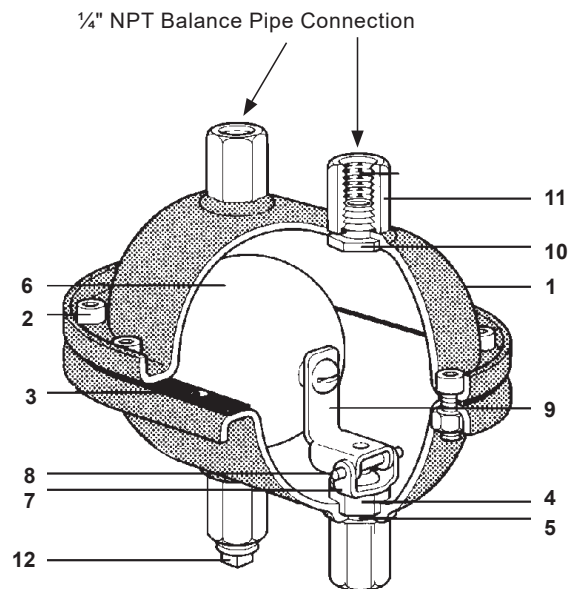
TMO	Maximum operating temperature	250 °F (121 °C)
-----	-------------------------------	-----------------

Conversion Factors for equivalent cold water capacity of light liquids

Specific gravity	.95-.99	.90-.94	.85-.89	.80-.84	.75-.79	.70-.74	.65-.69	.60-.64	.55-.59
Conversion Factor	1.03	1.06	1.09	1.12	1.16	1.20	1.24	1.29	1.35

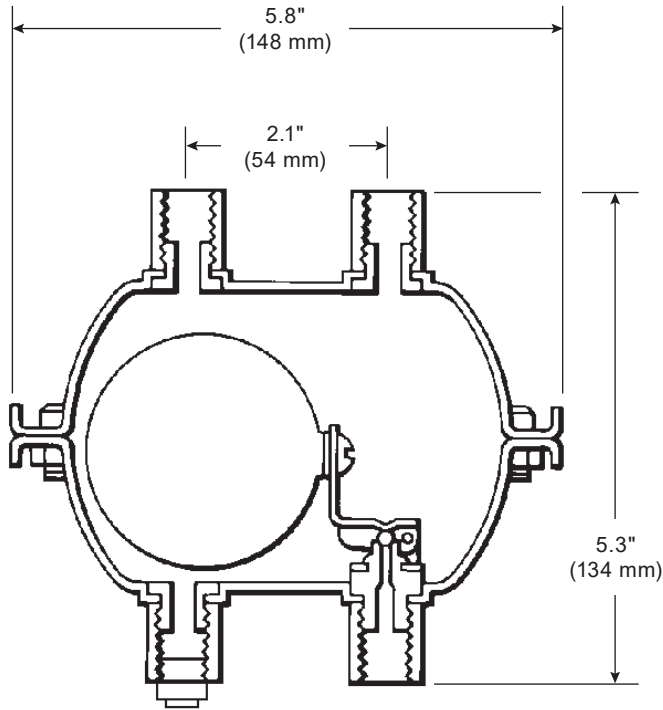
Materials

No.	Part	Material
1	Body	Stainless steel AISI 304
2	Cover Screws	Plated Steel ASTM A574
		Cover Nuts ASTM A 563
3	Cover Gasket	Graphite
4	Valve Seat	Stainless steel AISI 420F Option: AISI 304
5	'O' Rings	BUNA-N
6	Float	Stainless steel AISI 304
7	Seat Bracket	Stainless steel AISI 301
8	Pivot Pin	Stainless steel AISI 303
9	Valve Head	Stainless steel AISI 300 Option: EPDM
	Valve Arm	Stainless steel AISI 440
10	Connection Stud	Stainless steel AISI 304
11	Connection Nut	Stainless steel AISI 303
12	Drain Plug	Stainless steel AISI 316



Dimensions/weights

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

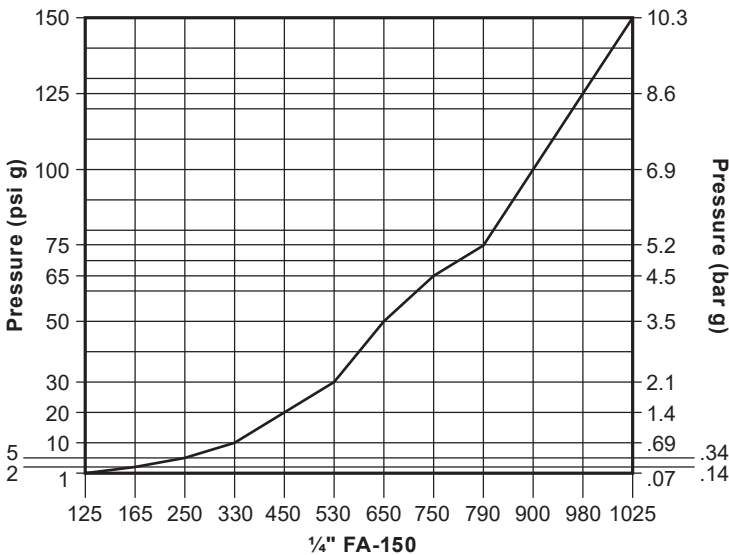


Weight

2 lb (0.9 kg)

Capacities

Cold Water Capacity lb/h .10" (2.5mm) orifice diameter



For kg/h, multiply lb/h by .454

Sizing and Selection

Draining Cold Water and Liquids of specific gravity 1.0

Obtain the required cold water capacity by multiplying the peak load by a safety factor of 1.5. Select the drain trap from the capacity table which satisfies the required cold water capacity and operates at the minimum pressure differential of the application.

Draining Liquids of specific gravity 0.55 to 0.95

Determine the "Equivalent Cold Water Capacity" of the light liquid by multiplying its peak load (include a safety factor of 1.5) by the conversion factor given in the table above. If the maximum load is accurately known, the safety factor can be reduced or eliminated.

Refer next to Limiting Conditions table which gives the maximum operating pressure with various gravity liquids. For liquids between those listed, use the next lower specific gravity. Ensure that the maximum operating pressure is equal to, or greater than, the inlet pressure of the application.

Sample Specification

The liquid drain trap shall be of the float type with screwed NPT connections. Body shall be stainless steel, and valve mechanism shall be stainless steel with hardened working surfaces 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.