

spirax sarco

Steel Liquid Drain Trap 3" (DN80) and 4" (DN100) FA450

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

Model	FA450	
Sizes	3" (DN80)	4" (DN100)
Connections	NPT, SW, Flanged	Flanged
Construction	Carbon Steel Body Stainless Steel Internals	

Typical Applications

Draining a liquid from a gas in large process applications.

Compliance

The product fully complies with the requirements of the European Pressure Equipment Directive 2014/68/EU, and carries the CE mark when so required.

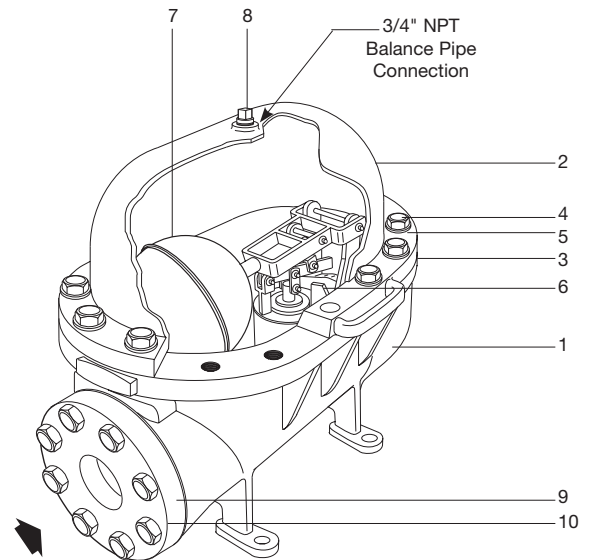
Certification

This product is available with certification to EN 10204 3.1. Designed in accordance with ASME VIII DIV 1. **Note:** All certification/inspection requirements must be stated at the time of order placement.

Note: The double seated valve may not shut tight under no-load conditions. Normally, the liquid load will always be greater than the small residual leakage.

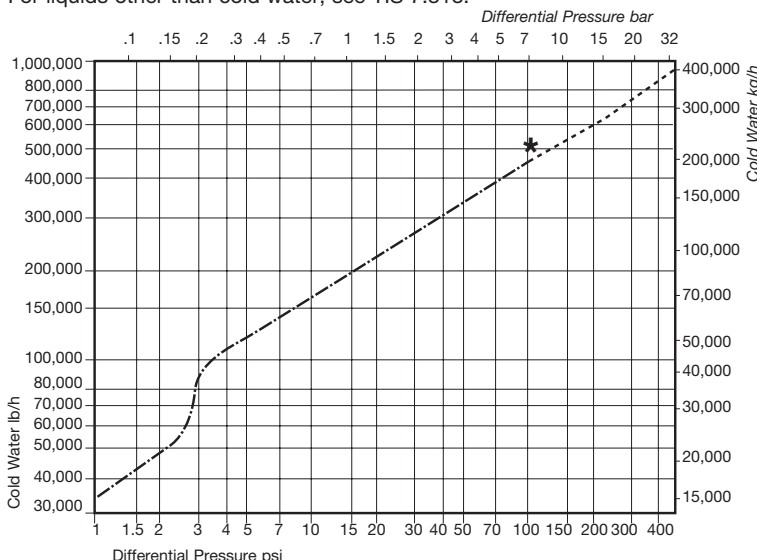
Construction Materials

No.	Part	Material
1	Body	Cast Carbon Steel ASTM A216 WCB
2	Cover	Cast Carbon Steel ASTM A216 WCB
3	Cover Gasket	Graphite with SS insert
4	Cover Bolts	Steel ASTM A193 GR B7
5	Lockwashers	Steel
6	Main Valve Assembly	Stainless Steel
	Valve Mech. Gasket	Graphite
	Valve Mech. Screws	Stainless Steel
7	Float	Stainless Steel ASTM A240 Type 304
8	Cover Plug (3/4" NPT)	Steel
	Drain Plug (3/4" NPT)	Steel
9	Companion Flange	Forged Steel
10	Flange Bolts	Steel ASTM A193 GR B7



Capacities

For liquids other than cold water, see TIS 7.318.



Limiting Operating Conditions*

Max. Operating Pressure (PMO) Up to 450 psig (31 barg), depending on the specific gravity of the liquid being drained. See TIS 7.318.

Max. Operating Temperature 650°F (343°C) at 450 psig (31 barg)

750°F (400°C) at operating pressures below 375 psig (26 barg)

Pressure Shell Design Conditions*

PMA 450 psig/0-650°F (31 barg/0-343°C)
 Max. allowable pressure 425 psig/700°F (29 barg/371°C)
 375 psig/750°F (26 barg/400°C)

TMA Max. allowable temperature 750°F/0-375 psig (400°C/0-26 barg)

* The limiting operating and design conditions for ANSI 150 flanged units will be limited by the flange rating.

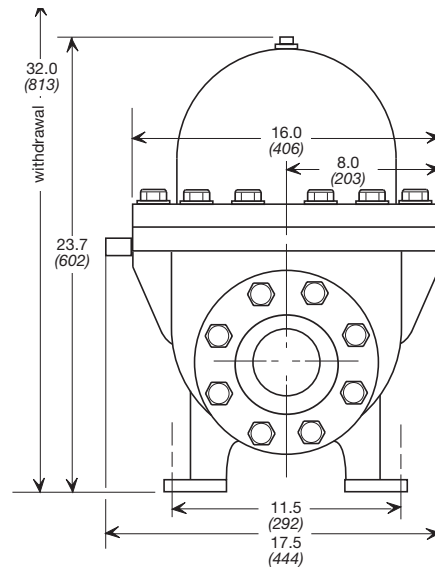
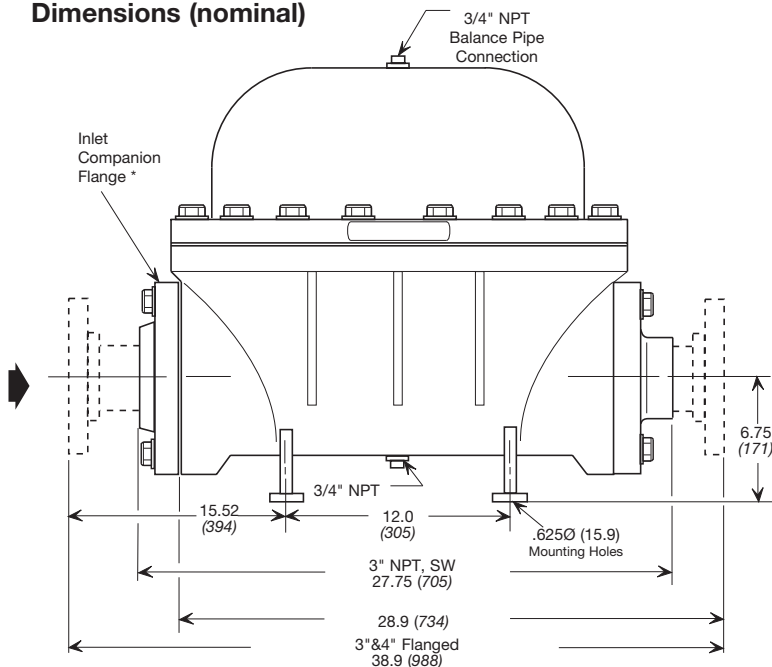
Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.

In the interests of development and improvement of the product, we reserve the right to change the specification.

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Steel Liquid Drain Trap 3" (DN80) and 4" (DN100) FA450

Dimensions (nominal)



Weight 485 lb. (220 kg)

* The inlet connection on NPT and SW traps is a standard 4" (DN100) ANSI 300 RF Flange bolted to the trap body. The flange bore is 3" (DN80), NPT or SW to match the outlet connection of the trap.

Sample Specification

Liquid drain traps shall be of the mechanical ball float type having steel bodies with stainless steel internal parts. The piping connections shall be horizontal in-line, and the body shall incorporate mounting legs with drilled pads. The trap body shall be horizontally split and all internal parts shall be completely serviceable without disturbing the inlet and outlet piping.

Installation

The trap should be located below and close to the equipment drain point. A pipeline strainer should be installed ahead of the trap, and full-flow isolating valves should be placed to permit servicing. The mounting legs should be bolted to a firm horizontal support. Access above the trap must be provided for servicing. The cover has a plugged 3/4" NPT balance pipe connection. The balance pipe must be connected with a continuous rise between the trap and the equipment being drained.

Complete installation instructions are given in IMI 7.3151.

Maintenance

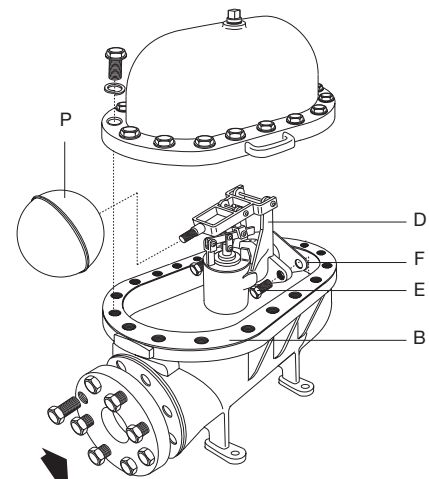
This product can be maintained without disturbing the piping connections. Complete isolation from both supply and return line is required before any servicing is performed. The trap should be disassembled periodically for inspection and cleaning of the valve mechanism.

Complete installation and maintenance instructions are given in IMI 7.3151, 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.

Spare Parts



Valve Mechanism Kit	D,E,F
Gasket Kit (pkt of 3 each)	B,F
Float Kit	P

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