

# spirax/sarco®

## Freezeton II Temperature Actuated Drain Trap

The Freezeton II thermostatic unit is designed to open at 35°F and be full open at 32°F and re-close at 40°F at all pressures within its range. Trap to be mounted in vertical or horizontal position to insure drainage occurs.

Model ↔	Freezeton II
PMO	200 psig
Size	1/2"
Connections	NPT
Construction	Stainless Steel / Brass



### Limiting Operating Conditions

Max Operating Conditions (PMO) 200 psig (13.8 barg)

Max Operating Temperature (TMO) 180°F continuous\*  
*\*short spikes on steam system startup acceptable*

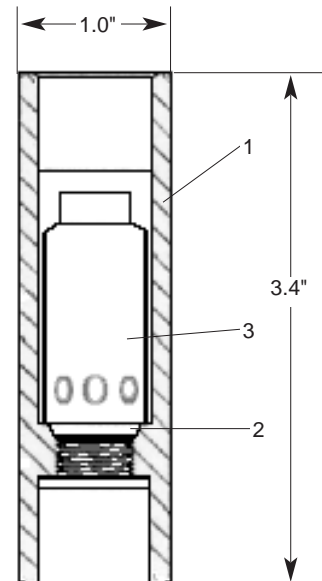
### Pressure Shell Design Conditions

PMA 200 psig (13.8 barg)

TMA 388°F (198°C)

### Construction Materials

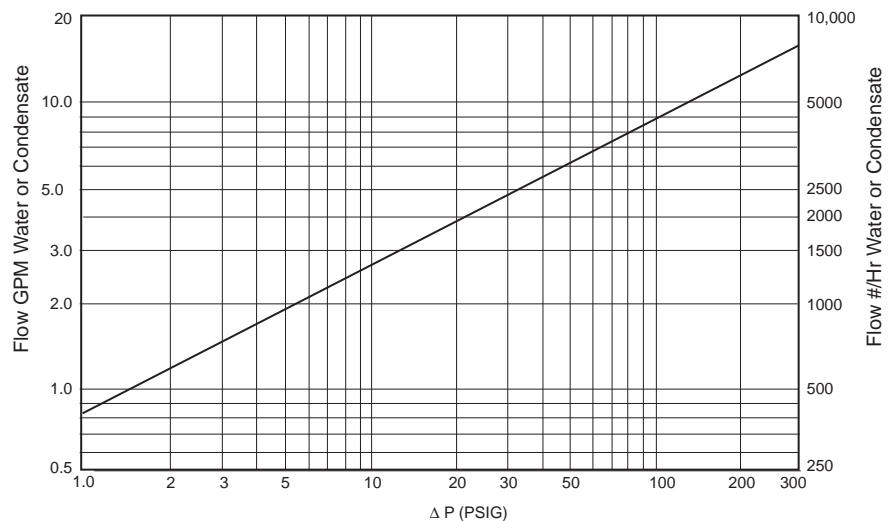
No.	Part	Material	
1	Body	Stainless Steel	ASTM-A581-95B
2	O-Ring	EPDM	ASTM D1418
3	Thermostat	Brass	ASTM B16



### Typical Applications

Freeze protection for float & thermostatic steam traps, coils, tanks, water lines on docks, eyewash stations, safety showers, tracing condensate manifolds, tracing steam manifolds, condensate return lines, pressure powered pumps, electric pumps, and flash tanks.

### Flow Capacities (water)



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.

TIS 2.205 US 01.03

# Freezeton II Temperature Actuated Drain Trap

## Sample Specification

Temperature actuated drain trap shall have a stainless steel body with brass thermostatic actuator, which will operate in a vertical or horizontal position. Thermostatic actuator to be tamper proof and a sealed encapsulated unit. Thermostatic actuator to crack open at 35°F, be full open at 32°F and be closed tight at 40°F. Drain trap to operate from 0 to 200 psig pressure range.

## Operation

The Freezeton II should be used for any application where flow to replenish temperature is required to prevent freezing of water or condensate lines or to drain a vessel which is prone to freezing due to ambient conditions. The normal failure mode is in the open position unless plugged by debris.

## Installation

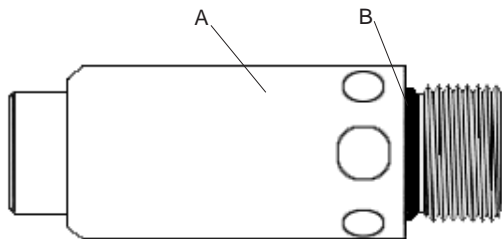
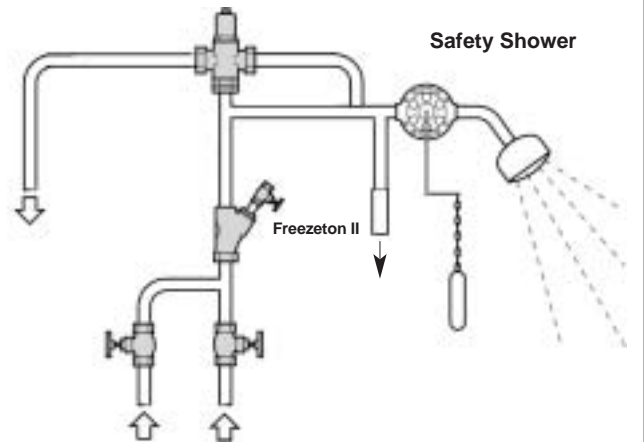
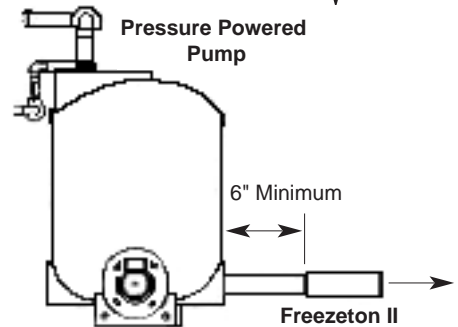
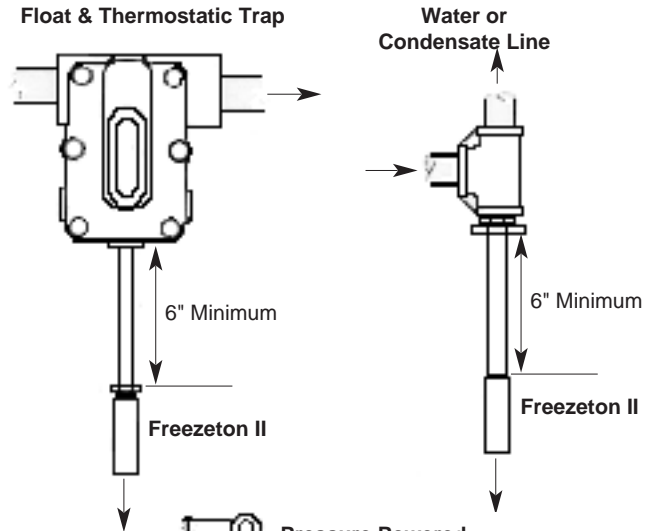
The marking on the trap indicates the flow direction if placed on water line, condensate line, tank etc. An isolation valve should be placed ahead of trap to allow for removal of trap without draining the system. When used on steam trap isolation valves, should be on the steam trap itself so no isolation is required ahead of the Freezeton II. Discharge must go to zero atmospheric pressure only, to avoid damage to the thermostat. The pipe connections should never be welded. The trap can be mounted in a vertical or horizontal position. Vertical is the preferred position where space is available. When used in a horizontal position, pitch piping toward the trap. When used on steam service or hot condensate the trap must be at least 6" or more from the device.

## Maintenance

Complete isolation of the trap from both supply and return line is required before any servicing is performed.

Worn or damaged parts should be replaced using a complete Thermostatic Assembly Set.

Complete installation and maintenance instructions are given in the IMI sheet, which accompanies the product.



## Thermostatic Assembly Set A, B

Available spare parts are shown in heavy outline. Parts drawn in broken line are not supplied as spares.



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