Freezeton III Temperature Actuated Drain Trap

The Freezeton III 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 a preferrable vertical or horizontal position to insure drainage occurs.

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

Limiting Operating Conditions

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

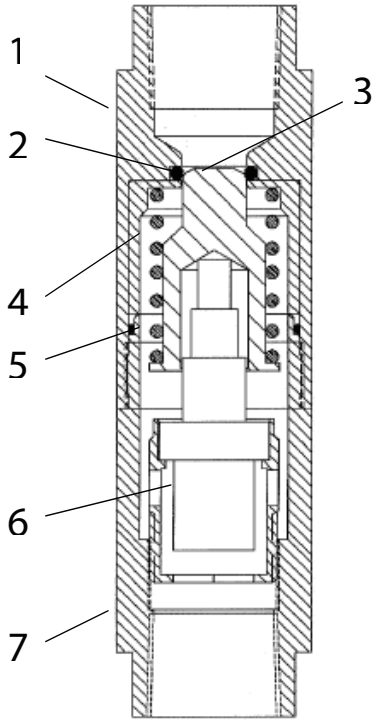
Max Operating Temperature (TMO) 180°F continuous*
**short spikes on steam system startup acceptable*

Pressure Shell Design Conditions

PMA	200 psig	(13.8 barg)
TMA	388°F	(198°C)

Construction Materials

No.	Part	Material
1	Body Inlet Side	Stainless Steel
2	Valve Seat	EPDM
3	Valve Head	Stainless Steel
4	Spring	Stainles Steel
5	Body Seal	EPDM
6	Thermal Actuator	Brass
7	Body Outlet Side	Stainless Steel



Overall length 4-1/2" (114 mm)
Maximum diameter 1-1/8" (32 mm)
Weight .9 lb (.41 Kg)

Flow Capacities (water) CV=1.3

Press psig	Flow #/hr.	Flow GPM
1	651	1.3
2	920	1.8
5	1455	2.9
10	2057	4.11
25	3253	6.5
50	4699	9.2
100	6505	13
150	7967	15.9
200	9200	18.4

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.

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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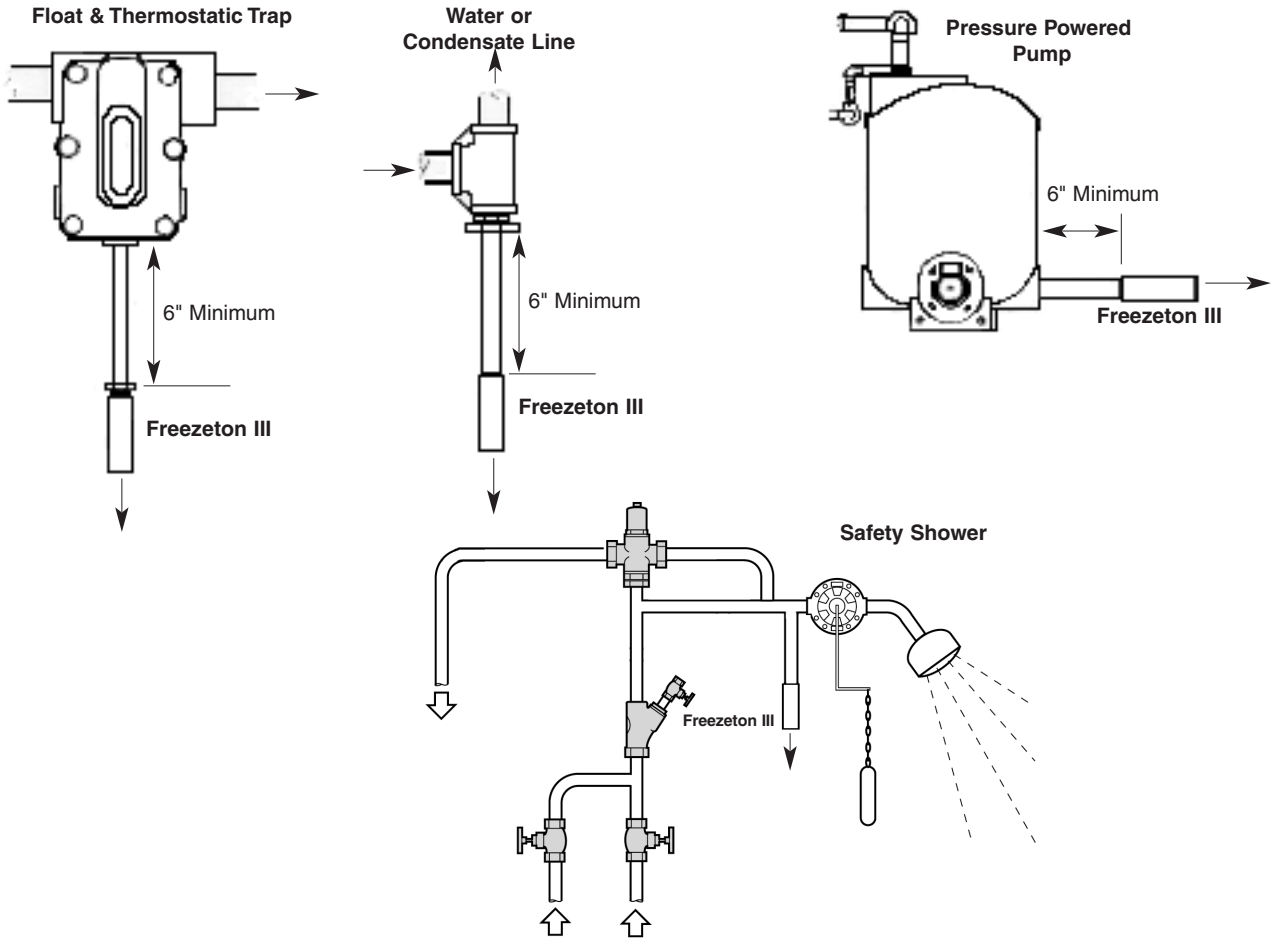

Sample Specification

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 III 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 itself so no isolation is required ahead of the Freezeton III. Discharge must go to zero atmospheric pressure only, to avoid damage to the thermostat. The pipe connections should never be welded. 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. Discharge into large diameter drain or ditch. Never create an "ICE PATCH" hazard by discharging on to slab or walkway.

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

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