RADIATOR TRAP
Low Pressure (750-A)

Thermostatic Trap (750-A)

Technical Specifications

The Sterlco® Low Pressure Radiator Trap (The Sterlco® Smart Trap) will operate efficiently regardless of steam pressure variation. All thermostats and seats are replaceable without shimming or adjustment. Every trap is thoroughly tested. Components are inspected and tested during manufacture; completed traps undergo complete operating tests before shipment.

Features

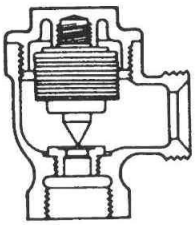
Vacuum Thermostat Features

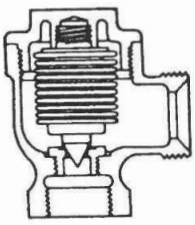
- Bellows convolutions are formed under extremely high hydraulic pressure
- Smooth bellows surfaces means no tool marks where wear or corrosion can start.
- Multiple convolutions provide free travel of the valve cone. There is no danger of failures due to excessive bellows flexing.
- Vacuum charged...not charged at atmospheric pressure. The trap will close immediately if damaged.

Construction

Trap bodies, covers, union nuts and nipples are close grained red brass castings. Accurate machining assures steam-tight fit and complete interchangeability of parts. Sterlco® low pressure 750-A traps have valve cones of long-wearing tobin bronze and seats of brass. Stainless steel cones and seats are available on the 1/2" 750-AX trap.

Operating Fundamentals

A. 

B. 

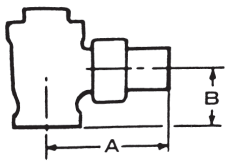
A. In a trap which is cold, or which is full of condensate below the boiling point, the Sterlco® thermostat remains compressed because of its internal vacuum. The trap is open and condensate flows out.

B. Whenever live steam strikes the bellows, the water inside the thermostat starts to vaporize or boil. As soon as the steam pressure inside the thermostat becomes almost equal to the steam pressure surrounding the thermostat, the spring action of the bellows causes it to extend itself and close the trap. Because the thermostat is filled with pure water, the relationship of inside and outside pressures is always the same. This trap will always pass condensate and hold back steam in spite of any variations in steam pressure.

If the thermostat is damaged, the vacuum inside will be lost and the trap will remain closed whether it is hot or cold. The location of the trouble will be easy to find because the radiator will be cold. Meanwhile, no steam is wasted.

Product Dimensions

Pressure Rating Lbs./Sq. In.	Inlet and Outlet Size (Am. Std. Pipe Thd.)	Model	Pattern	Dimensions (inches)			Pressure Differential (PSI) Lbs. Condensate Per Hour						
				A	B	C	1/4 lb.	1/2 lb.	1 lb.	2 lb.	5 lb.	10 lb.	15 lb.
0-25 Low Pressure	1/2"	750-A	Angle	3 1/4*	1 1/4		20	30	40	60	90	130	160



Angle

Note: Above ratings are in accordance with the standards of the Steam Heating Equipment Manufacturers Association. Since actual test capacities are from two to four times these ratings, trap may be selected directly from the table for the lowest pressure differential expected.

* Available with tail pieces to reduce or increase "A" dimension by 3/8".

Meeting the standards of

FCI
Fluid Controls Institute

Sterlco® thermostatic radiator traps accurately and efficiently free radiators of air and condesnate without allowing steam to be wasted into returns. They are especially effective on vacuum heating systems. Their simple design and rugged construction assure long, dependable service.