

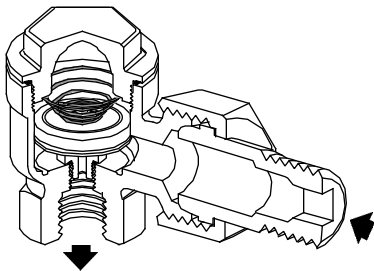


## INSTALLATION AND MAINTENANCE INSTRUCTIONS

IMI 2.004

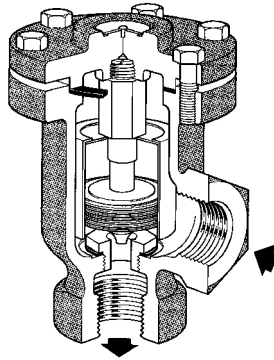
MAY 2004

# Balanced-Pressure Thermostatic Steam Traps



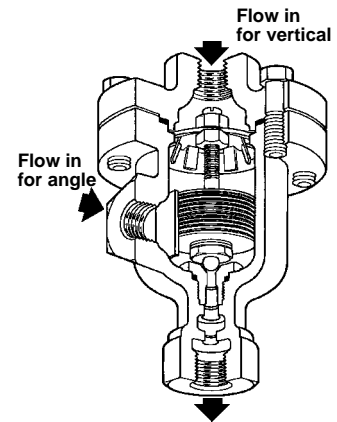
### Type

RTA-125	25" vac-125" / 8.6 bar
RTH-25	25" vac-25 / 1.7 bar
RTH-125	0-125 / 8.6 bar
TV-125	0-125 / 8.6 bar



### Type

T250 Angle
T-250 Straightway
0-250 psi / 17.2 bar



### Thermo-Matic®

TM-600, TM600L, TM600N
5-600 psi / .3-41.4 bar

Thermostatic steam traps sense the temperature difference between steam and condensate using an expanding bellows to operate a valve head. They are wide open when cold providing a self-draining freezeproof design with high air venting capability. These traps are self-adjusting and will work equally well at any pressure up to the maximum for each type as stamped on the nameplate. Bellows thermostatic traps are **NOT RECOMMENDED FOR SUPERHEAT SERVICE** or for applications where elevating condensate may damage the bellows.

## Installation

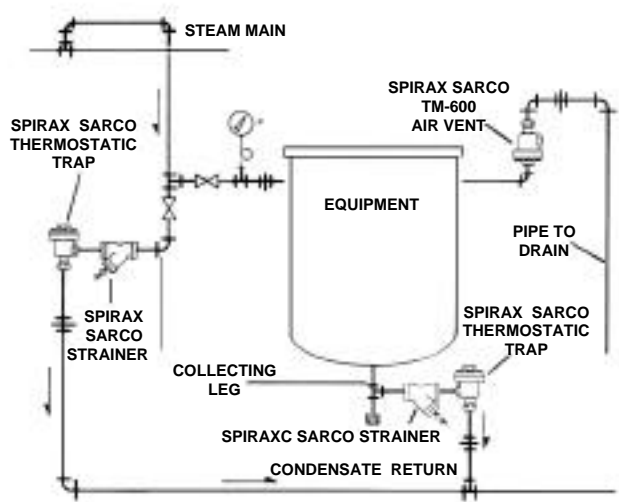
A pipeline strainer should be installed ahead of any trap to protect the head and seat from dirt and scale. Install at low point of equipment with a collecting leg before the trap. For best operation, the trap should be installed with the bellows in a horizontal position. For a freezeproof installation lines must be pitched toward the trap for gravity flow; keep trap outlet free of any piping.

## Maintenance

Allow the trap to cool down before disassembly to prevent over-expansion damage to the bellows. The thermostatic bellows is the only working part and its valve head and seat must be clean for tight shutoff. At room temperature the bellows should be away from the seat. Bellows usually expand slightly when defective and will not move when placed in boiling water. *Note: Do not heat bellows with*

*torch or flame as it could burst.* The TM-600 bellows module is factory calibrated and its setting must not be changed in the field.

**Repair Parts: See TIS for trap model.**



Typical Steam Main and Equipment Installation

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## Torque Requirements for Balanced Pressure Steam Traps

### RTA, RTH, & TV Series BP Traps

Torque Ft-Lbs.		
Size & Type	Valve Seat	Cap
1/2", 3/4" RTA-125	20-25	50-55
1/2", 3/4", TH-125	20-25	50-55
1/2", 3/4", TV-125	17-21	78-85

### TM-Series

Torque Ft-Lbs.		
Size & Type	Valve Seat	Cover Screws
1/2", 3/4" TM600	68-70	25-30

### T250-Traps

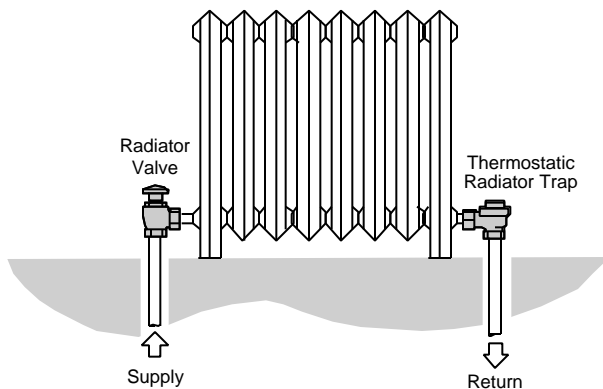
Torque Ft-Lbs.			
Size & Type	Valve Seat	EIE. Holder	Cover Screws
1/2", 3/4" 1" T250 Strway & Angle Traps	45-55	27-31	20-25

### Trap Pressure Ratings

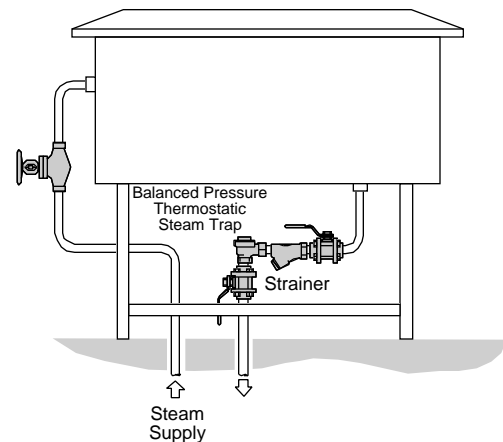
Trap	psig/Bar
RTA-125 Series	0-125/ 8.6
RTH-125 Series	0-125/ 8.6
T-250 Series	0-250/ 17.2
TM-600 Series	0-600/41.4

## Typical Hook-Ups

Steam Radiator



Trapping Small Utensil Sterilizer



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