



N25 SERIES

THERMOSTATIC STEAM TRAPS

Pressures to 25 PSIG (1.72 barg)

Temperatures to 267°F (131°C)

- **Superior Performance** — Encapsulated element is factory tested and inspected for years of trouble free service.
- **Improved Energy Savings** — Maximum elimination of air and non-condensibles—trap closes at saturated steam temperature.
- **Temperature Sensitive Actuators** — One moving part. Stainless Steel, fail open, welded actuator for maximum corrosion, thermal and hydraulic shock resistance.
- **Freeze Proof** — Threaded male union horizontal inlet and vertical outlet—self draining.
- **In-line Maintenance** — Threaded cover for one step removal, inspection and service without breaking pipe connections.
- **Guaranteed** — Guaranteed against defects in materials and workmanship for 2 years. Factory calibrated, inspected, and tested.

APPLICATIONS

- Commercial/ Residential
- Cast Iron Radiators
- Finned Tube Radiators
- Convector
- Air Handlers
- Sterilizers
- Drip Legs
- Tracing
- Vacuum Conditions

MAXIMUM CAPACITY - lbs/ hr 10° F Below Saturation (Kg/ hr 5°C Below Saturation)

Trap	Orifice	Differential PSIG (barg)								
		1/4 (0.02)	1/2 (0.03)	1 (0.07)	1 1/2 (0.10)	2 (0.14)	5 (0.34)	10 (0.70)	15 (1.03)	25 (1.72)
1/2" N25	5/16" (8)	225 (102)	300 (136)	413 (187)	500 (227)	575 (261)	800 (363)	1250 (568)	1563 (709)	2063 (936)
3/4" N25	5/16" (8)	375 (170)	575 (261)	825 (375)	1000 (454)	1163 (528)	1825 (829)	2600 (1180)	3250 (1476)	4250 (1930)

OPERATION

The thermal actuator is filled at its free length with a liquid having a lower boiling point than water. On start-up, the valve is normally open. When steam enters the trap, the fill liquid's vapor pressure increases above line pressure. This forces the valve into its seat, preventing any further flow. As con-

densate collects, heat transfers from the actuator to the condensate, lowering the internal pressure. Line pressure will then compress the actuator, opening the valve for condensate discharge. Since the actuator's vapor pressure is a function of the operating conditions, the valve modulates automatically based on load.

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SPECIFICATION

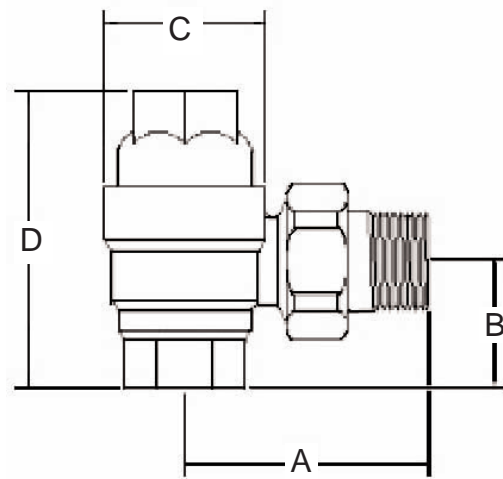
Steam trap shall be of balanced pressure design with stainless steel welded actuator capable of discharging condensate within 10°F of saturated temperature. Trap shall be bronze bodied suitable for pressures through 25 psig and available in 1/2" and 3/4" NPT connections.

MAXIMUM OPERATING CONDITIONS

PMO: Max. Operating Pressure 25 psig (1.72 barg)
 TMO: Max. Operating Temperature 267°F (131°C)
 PMA: Max. Allowable Pressure 25 psig (1.72 barg)
 TMA: Max. Allowable Temperature 267°F (131°F)

MATERIALS OF CONSTRUCTION

Body & Cover..... ASTM B283 CA377
 Actuator, Valve and Seat.....Stainless Steel



Connections: 1/2"–3/4" NPT

DIMENSIONS

Size	Inch (mm)				Weight lb (kg)
	A	B	C	D	
1/2"	2.6 (66)	1.35 (34)	3.0 (76)	1.82 (46)	1.15 (0.52)
3/4"	2.6 (66)	1.35 (34)	3.0 (76)	1.82 (46)	1.25 (0.57)