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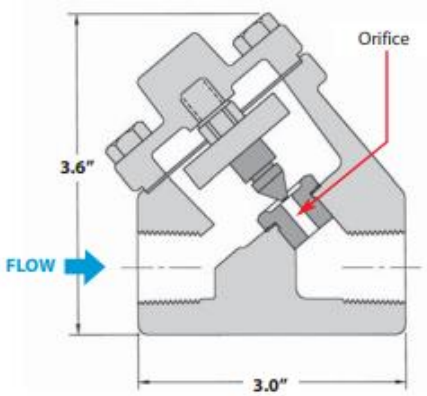
Series WT2500 – Thermostatic Steam Trap - Installation, Operation, & Maintenance Instructions



Installation

1. Before installing the trap, blow out piping thoroughly to remove loose scale and dirt. Use pipe dope or Teflon tape sparingly when attaching the trap to the pipe.
2. Install the trap below the equipment being drained in a location easily accessible for maintenance and inspection. Be certain that the flow arrow on the trap points in the proper direction.
3. Install a drip pocket to keep dirt away from the trap.
4. Discharge piping should be amply sized to avoid excessive back pressures.
5. To provide for easy maintenance and service, install a block valve on each side of the trap and install a strainer ahead of the inlet connection.
6. All valves should be fully ported to achieve the rated capacity of the trap.
7. If discharge piping is to be elevated, be certain that the available differential pressure is adequate to permit proper drainage. Remember, two feet of lift equals approximately one psig.

Note: Trap can be installed in any orientation. All internal working components are extremely easy to replace and can be performed while the trap body remains in line by removing the four-bolt cover. Repair kit includes ALL parts to fully rebuild the steam trap including thermal element, seat and gasket.

How to Size/Order:

Application: 1827 lbs/hr at 100 PSIG inlet pressure
Size/Model: WT2500-12-N, 1/2" NPT, 3/16" orifice

MAX. Operating Conditions:

Cast Iron	PMO	250 PSIG
	TMO	406°F
	PMA	250 PSIG up to 450°F
	TMA	450°F @ 250 PSIG

Operation

1. The thermostatic trap contains a welded stainless steel thermal element that expands when heated and contracts when cooled.
2. When air and condensate are present, the trap is in the open discharge position. When steam reaches the trap, the element expands and closes off tightly.

Troubleshooting:

Problem	Cause	Solution
Trap does not discharge	Isolation valve closed	Open valve
	Strainer or trap is blocked	Check units and clean
Trap does not close	Dirt lodged on seat area	Clean trap (with compressed air) or replace and install strainer if none exists.
	Damaged thermostat	Replace thermostat

FOR FURTHER RESOURCES & ASSISTANCE USE THE FOLLOWING QR CODE, CALL (610)-495-5131, OR VISIT www.watsonmcdaniel.com.