All Stainless Steel Welded Element
For Condensate & Air Removal
Vacuum to 125 psig

Series TT25 & 125 THERMOSTATIC STEAM TRAPS

Applications

The Series TT25 and TT125 Steam Traps are designed to automatically remove condensate and air from steam lines. Typical uses are:

- Heating Systems (*vapor or vacuum*)
- Sterilizers
- Steam Tables
- Coffee Urns

Features

- All Welded Stainless Steel Element (*highest quality in the industry*)
- Vacuum to 125 psig Operation
- Simplicity of Construction Minimizes Maintenance
- Maintenance Performed Without Removing Trap from System
- Easily Installed
- Available with Different Spuds on Inlet Side of Trap

How It Works

The thermostatic element is partially filled with a volatile liquid and hermetically-sealed at the factory. This liquid vaporizes at a temperature slightly below the boiling point of water.

When cool, the trap is wide open, permitting air to be rapidly removed from the system and steam to fill the heating space. The trap remains open for the discharge of air and condensate. As condensate and steam warm the system, the liquid in the element vaporizes and expands pushing the ball closer to the seat. When the temperature approaches that of steam, internal pressure in the element exceeds the external pressure in the trap body, causing the element to expand further and push the ball tightly into the seat.

Conversely, the accumulation of cool condensate in the trap causes the element fill to liquefy which contracts the element, opening the flow path through the trap and discharging the condensate and air.

WATSON McDANIEL COMPANY
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Manufacturers of:
PRESSURE & TEMPERATURE REGULATORS - RELIEF VALVES - STEAM TRAPS - CLEAN STEAM PRODUCTS
LIQUID DRAINERS - PRESSURE PUMPS - EJECTORS - SPECIALTY PRODUCTS

ISO 9001 Certified Quality System
ASME Sect VIII Div I

ST-420
(1/01)

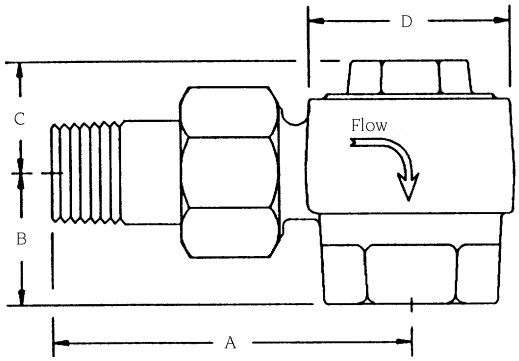
TT25 & TT125 Specifications

General Repair & Maintenance

Close isolation valves and allow trap to cool down before disassembly to prevent overexpansion damage to element. The thermostatic element is the only moving part. The ball and seat must be clean for tight shut-off.

The thermal element should be away from the seat at room temperature. If defective, the element remains slightly expanded and does not move when placed in boiling water.

Make sure gasket is in place and seat is torqued down tight when replacing trap seat.



Capacity (*lbs of condensate/hr*)

Pipe Size NPT	Pressure Differential (*psig*)				
	15	25[1]	40	65	125[2]
1/2"	825	1070	1323	1610	1950
3/4"	1290	1700	2100	2575	3300

[1] TT25, maximum working range
[2] TT125, maximum working range

Dimensions

Pipe Size NPT	A*	B	C	D
1/2"	2 13/16"	1 3/16"	1"	2 1/8"
3/4"	3 1/16"	1 3/16"	1"	2 1/8"

* Specified lengths to meet preexisting conditions available

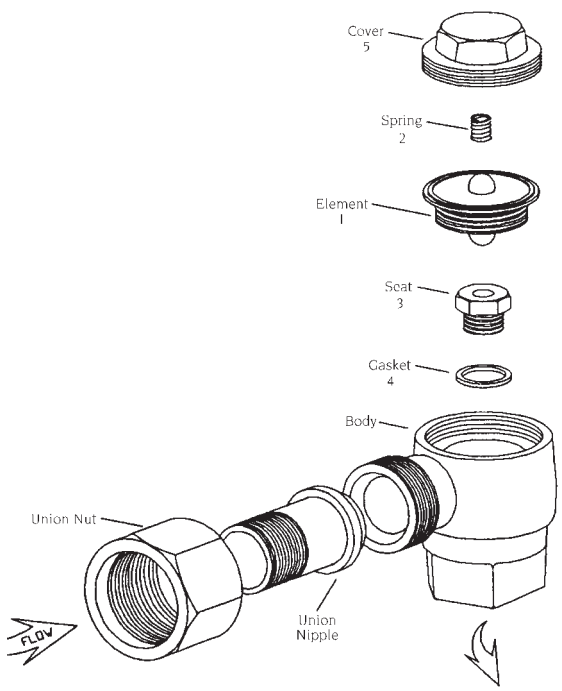
Seat Material

Pressure Class	Pipe Size NPT	
	1/2"	3/4"
TT25	Brass	Brass
TT125	Stainless	Stainless

Materials

Body & Cover .....Forged Brass, CA 377
Element, P/N 1 .....Welded Stainless Steel, AISI 302
Cover, P/N 5 .....Forged Brass, CA 377
Spring, P/N 2 .....Stainless Steel, AISI 304
Seat, P/N 3 .....Brass,* ASTM B-21
Gasket, P/N 4 .....Brass, ASTM B-21
Body .....Forged Brass, CA 377
Union Nipple .....Brass, ASTM B-16
Union Nut .....Brass, ASTM B-16

* Also available in 303 Stainless Steel



Ordering Spare Parts

Seat & Element Ass'y 1, 2, 3, 4

Note: Use description above, stating size and type of trap.
Example: Element Seat & Element Ass'y for 1/2" TT125 steam trap.

KIT NUMBERS

1/2" 25 psig Repair Kit.....w-kit-tt25-12-025 br
1/2" 125 psig Repair Kit.....w-kit-tt125-12-125 ss
3/4" 25 psig Repair Kit.....w-kit-tt25-13-025 br
3/4" 125 psig Repair Kit.....w-kit-tt125-13-125 ss