

UT450

Universal Style Quick-Change Trap Module

Thermostatic Steam Trap Module (mounts to UC450 Universal Connectors)

Model	UT450
Connections	Fits UC450 Series Universal Connectors
Body Material	Stainless Steel
PMO Max. Operating Pressure	450 PSIG
TMO Max. Operating Temperature	Saturated Steam Temp.
PMA Max. Allowable Pressure	720 PSIG @ 100°F
TMA Max. Allowable Temperature	800°F @ 400 PSIG



UT450
Thermostatic
Steam Trap
Module

Steam trap modules can be used with other manufacturers' Universal Connectors.

Typical Applications

DRIP, TRACER, PROCESS: The **UT450** Thermostatic Steam Trap Module can be used anywhere conventional thermostatic steam traps are used. Used for drip, tracing and light process applications. Trap module mounts to any 2-bolt Quick-Change Universal Connector.

How It Works

The UC450 universal connector is permanently installed into the pipeline where the steam trap would normally be placed. The trap module is fastened to the universal connector with two bolts. When a new trap module is needed, it can be easily removed and replaced with a standard open-end or socket wrench without disturbing the existing piping.

Features

- Trap module can be easily removed and replaced in minutes without having to disconnect any piping
- Trap modules can be used with most manufacturers' 2-bolt universal connector
- All stainless steel construction with hardened seat

Sample Specification

The steam trap module shall be designed to attach to the industry standard two-bolt universal connector. Trap module shall be of a thermostatic design. The universal connector shall conform to the two-bolt industry standard with integral strainer and blowdown options.

Installation and Maintenance

Mounts to any two-bolt quick change universal connector. Trap module is attached to the connector using two bolts and two sealing gaskets. When a new trap module is needed, it can be easily removed and replaced with a standard open-end or socket wrench without unthreading the existing piping. In vertical piping installations with upward flow, use of a blowdown valve is not recommended. Discharge would be in upward and unsafe direction.

Options

Universal Connectors are available with an integral strainer and blowdown valve. Connector is purchased separately. See the Universal Connectors section for more information.

Special 43°F Sub-cool Bellows available.

(Note: Standard bellows are designed for approximately 5°F sub-cool temperature)

Helpful Selection Information

Connector selection to use with the UT450: UC450 (no strainer), UC450SR (strainer), UC450SBR (strainer and blowdown). Select this model for steam systems with maximum working pressure of 450 PSIG.

MATERIALS

Body	Stainless Steel, AISI 420
Thermal Element	Stainless Steel, AISI 302
Disc & Seat	Stainless Steel, AISI 420
Insulation Cover	Stainless Steel, AISI 304
Bolts	Steel, ASTM A193 GR B7
Gaskets (2)	Spiral Wound 304 Stainless Steel with Grafoil Filler

CAPACITIES — Condensate (lbs/hr)

Model	Orifice Size	Steam Inlet Pressure (PSIG)												
		5	10	20	50	100	125	150	200	250	300	350	400	450
UT450	3/16"	441	625	882	1391	1827	1969	2095	2305	2483	2636	2777	2903	3019

Note: 5/64" low capacity orifice is available upon request.

Back Pressure as Percentage of Inlet Pressure	10	20	25	30	40	50	60	70	80	90
Percent Decrease in Trap Capacity	0	0	0	2	5	12	20	30	40	55

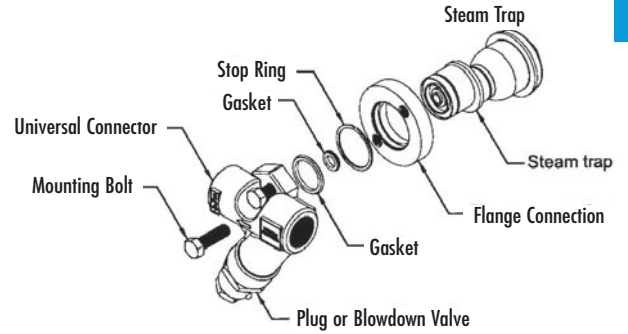
UT450

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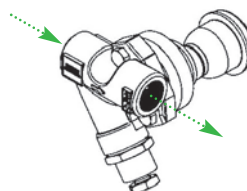

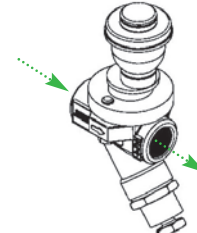
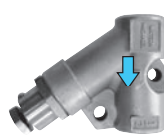
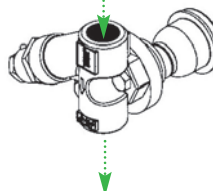
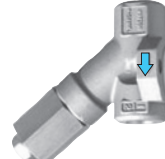
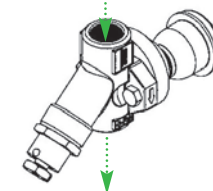

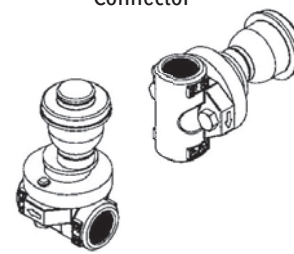
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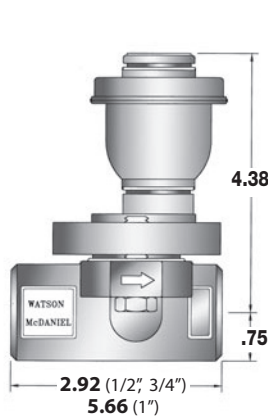
UT450
Thermostatic
Steam Trap
Module
shown with
UC450SL
Connectors



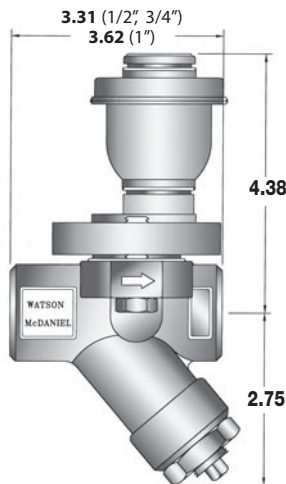
UT450 Trap Module may be mounted in any orientation

Horizontal Piping (Connector with Strainer)	Vertical Piping (Connector with Strainer)	Vertical or Horizontal Piping (No Strainer)
<p>Steam Flow to the Right or to the Left UC450SBR & UC450SB Connector shown below</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Trap shown with UC450SBR Connector</p>  </div> <div style="text-align: center;">  <p>Trap shown with UC450SB Connector</p>  </div> </div>	<p>Steam Flow Downward UC450SBR & UC450SB Connector shown below</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Trap shown with UC450SBR Connector</p>  </div> <div style="text-align: center;">  <p>Trap shown with UC450SB Connector</p>  </div> </div>	<p>Steam Flow Vertically or Horizontally UC450 Connector shown below</p> <div style="text-align: center;">  <p>Trap shown with UC450 Connector</p>  </div>

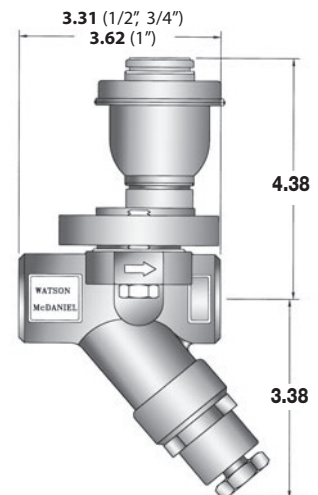
Connectors available in 1/2", 3/4" and 1" sizes in NPT and Socket-Weld Connections



UT450 Trap Module
with **UC450** Connector



UT450 Trap Module with **UC450S** Connector
(Strainer)



UT450 Trap Module
with **UC450SB** Connector
(Strainer & Blowdown)