Universal Style
Quick-Change Trap Test Station

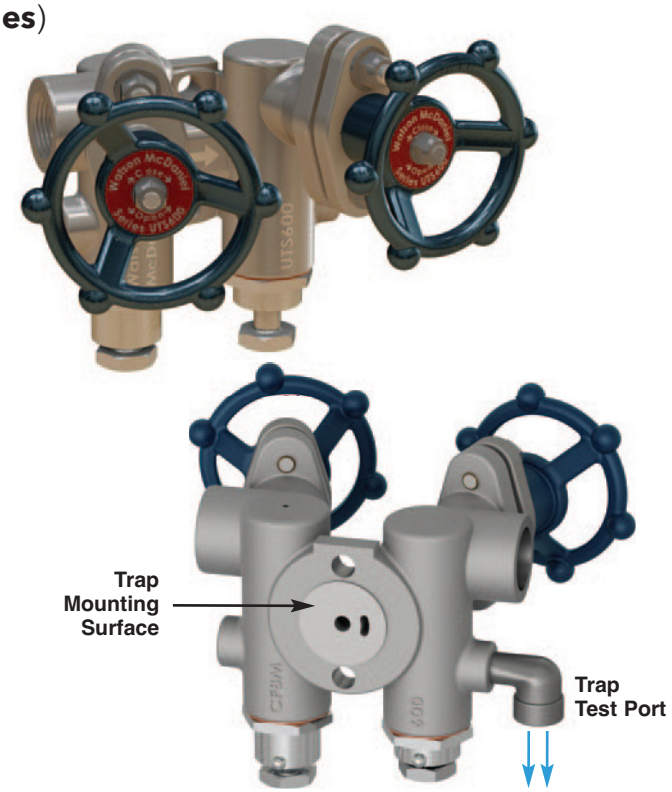
UTS600 Series

(For use with **Universal Quick-Change Trap Modules**)

Connector Design: Class 600 per ANSI/ASME B 16.34

Model	**UTS600**
Sizes	**1/2", 3/4", 1"**
Connections	**NPT, SW, FLG**
Body Material	**Stainless Steel**
PMO Max. Operating Pressure	**(trap module dependent)**
TMO Max. Operating Temperature	**(trap module dependent)**
PMA Max. Allowable Pressure	**1440 PSIG @ 100°F**
TMA Max. Allowable Temperature	**800°F @ 845 PSIG**

The UTS600 Steam Trap Test Station contains Inlet & Outlet Isolation Valves, Blowdown Valve & Steam Trap Test Valve.



Typical Applications

DRIP, TRACER: UTS600 Series Universal Connector Steam Trap Test Station reduce the time and manpower to test and replace steam traps. The Trap Test Station remains permanently in-line allowing steam trap module to be replaced in minutes. Integral isolation valves and trap test valve allow for simple trap testing by visually inspecting trap discharge. These Trap Test Stations can be used for drip service on steam mains and steam supply lines, tracing, or for small process equipment. The 2-bolt Universal Connectors are commonly used in chemical plants, petrochemical refineries, paper mills, and other industrial facilities. The 2-bolt Universal Connectors are considered an industrial standard, making them compatible with other manufacturers' universal steam trap modules.

How It Works

The Test Trap Station permanently installed in the piping system. The convenient 2-bolt mounting system allows the trap module to be removed and replaced quickly and easily using a socket or open-end wrench without disturbing the existing piping. The handwheels control the integral piston-style inlet and outlet isolation valves while the test valve opens a port to visually inspect trap discharge and function. A strainer and blowdown valve are included to protect the trap module from fouling due to pipe scale and debris. Blowdown can also be used to reduce start-up times.

Features

- Universal connector with 2-bolt mounting allows for fast, easy replacement of trap module making it more cost-effective than replacing conventional type steam traps
- Integral piston-style valves allow for reliable isolation of trap module for testing and replacement of trap
- All stainless steel construction
- Trap module can rotate 360° on the universal connector allowing any orientation during installation
- Compatible with other manufacturers' trap modules
- Available with integral strainer and blowdown valve

Sample Specification

The Universal Connector Steam Trap Test Station shall be all stainless steel construction designed to ANSI/ASME B16.34 Class 600. The unit shall include a two-bolt 360 degree swivel mount flange design, piston-style isolation valves, test valve, and integral strainer and blowdown valve.

Installation and Maintenance

The universal connector can be installed in vertical or horizontal piping and available in 1/2", 3/4" and 1" threaded NPT, socket weld (SW), and flanged (FLG). In horizontal installations, orientation of connecter body may be dependent on the specific type of trap module used. These connectors remain permanently installed in the piping system. The convenient 2-bolt mounting system allows the trap module to be easily replaced using a socket or open-end wrench without having to unthread piping. Pipe test port to safe location.

MATERIALS	
Connector Body	Stainless Steel, ASTM A351 CF8M
Bonnet	Stainless Steel, ASTM A351 CF8M
Bonnet Studs	A193 Grade B7
Bonnet Nuts	A194 Grade 2H
Valve Stem & Piston	Stainless Steel, 416
Valve Rings	Graphite & Stainless Steel
Handwheel	Ductile Iron
Washers	Stainless Steel
Gasket	Copper
Strainer Screen	Stainless Steel, 304
Blowdown Body & Stem	Stainless Steel
Test Valve Body & Stem	Stainless Steel

Option

Internal Check Valve available; Consult factory..

How to Size / Order

Connectors and Trap Modules are ordered separately.
See following pages for the Trap Modules.

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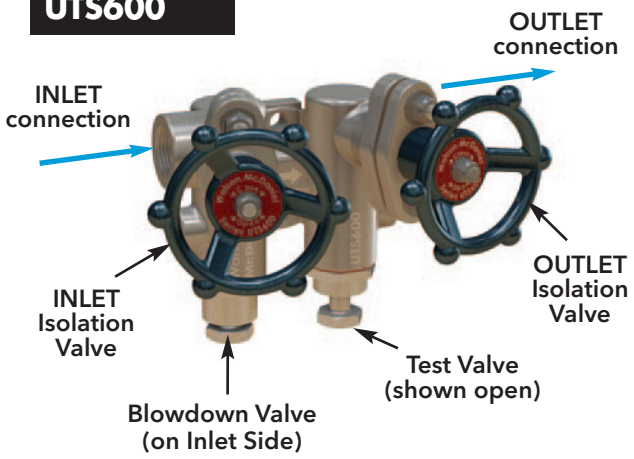
Helpful Selection Information
Choose the desired style connector:
UTS600R (Flow to Right)
UTS600L (Flow to Left)

All connector styles will operate with any trap module. UTS600 Series Connectors include integral inlet and outlet isolation valves, strainer and blowdown valve on inlet side and test valve on outlet side.

UTS600



Size	Model Code Threaded - NPT	Model Code Socket Weld	Weight lbs
Connector (with Isolation Valves, Test Valve, Strainer and Blowdown Valve) **FLOW TO RIGHT "R"**			
1/2"	UTS600R-12-N	UTS600R-12-SW	7
3/4"	UTS600R-13-N	UTS600R-13-SW	7
1"	UTS600R-14-N	UTS600R-14-SW	9
Connector (with Isolation Valves, Test Valve, Strainer and Blowdown Valve) **FLOW TO LEFT "L"**			
1/2"	UTS600L-12-N	UTS600L-12-SW	7
3/4"	UTS600L-13-N	UTS600L-13-SW	7
1"	UTS600L-14-N	UTS600L-14-SW	9

Note: 1" units include weld adapters.

UTS600F

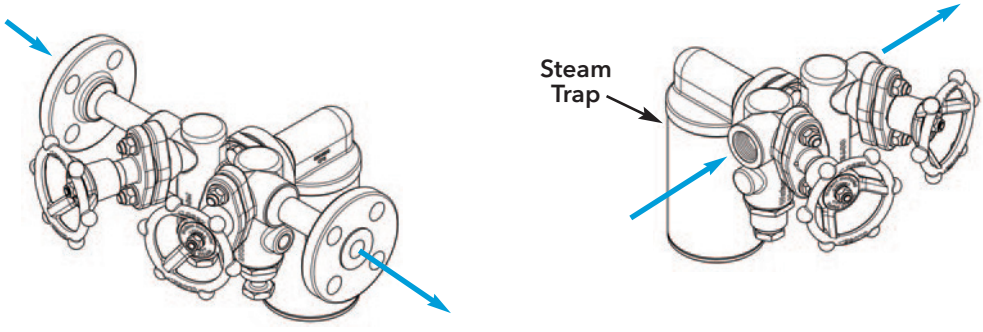
Size	Model Code Flanged - 150#	Model Code Flanged - 300#	Weight lbs
Connector (with Isolation Valves, Test Valve, Strainer and Blowdown Valve) **FLOW TO RIGHT "R"**			
1/2"	UTS600R-12-F150	UTS600R-12-F300	14
3/4"	UTS600R-13-F150	UTS600R-13-F300	14
1"	UTS600R-14-F150	UTS600R-14-F300	15
Connector (with Isolation Valves, Test Valve, Strainer and Blowdown Valve) **FLOW TO LEFT "L"**			
1/2"	UTS600L-12-F150	UTS600L-12-F300	14
3/4"	UTS600L-13-F150	UTS600L-13-F300	14
1"	UTS600L-14-F150	UTS600L-14-F300	15

Note: 600# FLG connections are available; consult factory.

Horizontal Piping

Steam Flow to the Right; Specify UTS600R
Steam Flow to the Left; Specify UTS600L

UTS600R Connector (shown below) with **USIB450 Inverted Bucket Trap Module**



Universal Style
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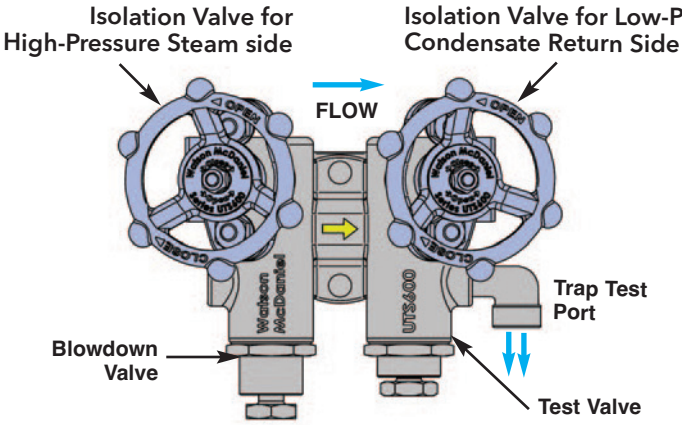
UTS600 Series

(For use with **Universal Quick-Change Trap Modules**)

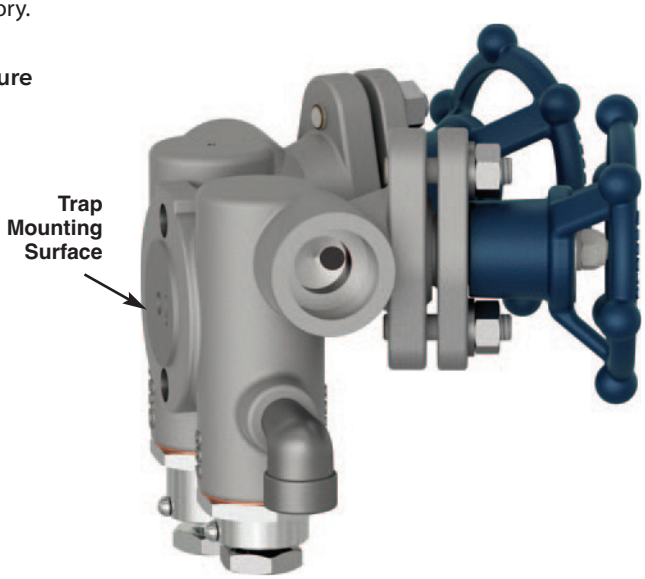
Dimensions & Model Codes

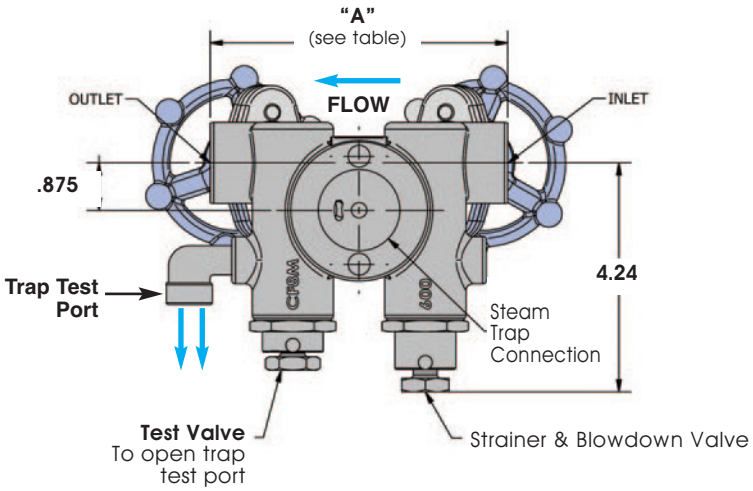
UTS600R Steam Trap Test Station

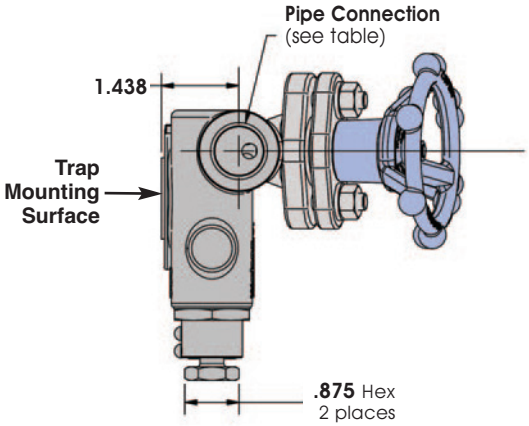
*Customized Flanged and Tube Fitting connections available; consult factory.

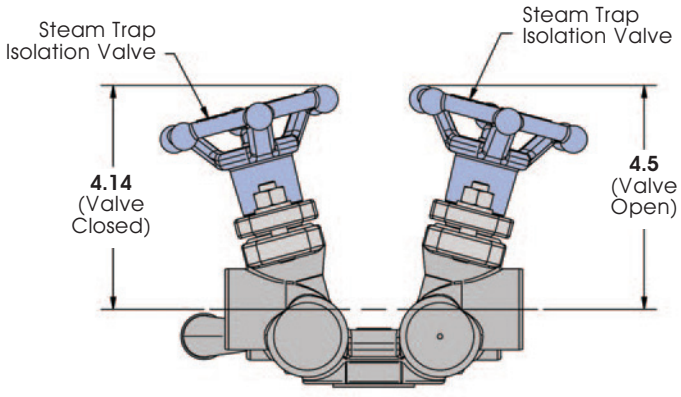


('**R**' Configuration Shown)
for Opposite Flow Order '**L**" Configuration









Note: Do not exceed 8 full handle rotations when opening Isolation Valves.

Pipe Connection Inlet x Outlet		Model Code	A (in.)
1/2"	NPT	**UTS600R-12-N**	5.50
1/2"	SW	**UTS600R-12-SW**	5.50
1/2"	150# FLG	**UTS600R-12-150**	12.00
1/2"	300# FLG	**UTS600R-12-300**	12.00
1/2"	600# FLG	**UTS600R-12-600**	12.00
3/4"	NPT	**UTS600R-13-N**	5.50
3/4"	SW	**UTS600R-13-SW**	5.50
3/4"	150# FLG	**UTS600R-13-150**	12.00
3/4"	300# FLG	**UTS600R-13-300**	12.00
3/4"	600# FLG	**UTS600R-13-600**	12.00
1"	NPT	**UTS600R-14-N**	8.25
1"	SW	**UTS600R-14-SW**	8.25
1"	150# FLG	**UTS600R-14-150**	12.00
1"	300# FLG	**UTS600R-14-300**	12.00
1"	600# FLG	**UTS600R-14-600**	12.00

UTS600 Series

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(For use with **Universal Quick-Change Trap Modules**)

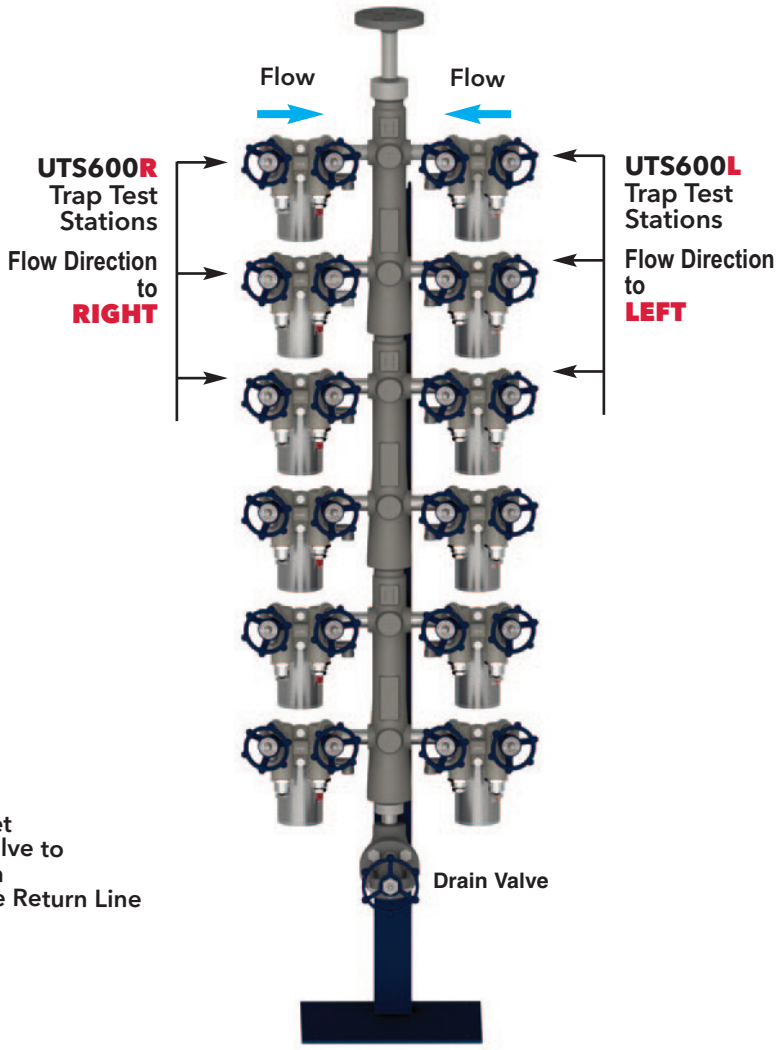
Used with the following Watson McDaniel Steam Trap Modules:

USIB450	- Inverted Bucket
UTD450	- Thermodynamic
UTD450SM	- Thermodynamic
UTD600LSM	- Thermodynamic
UT450	- Thermostatic
UFT450	- Float & Thermostatic
UB450	- Bi-Metallic

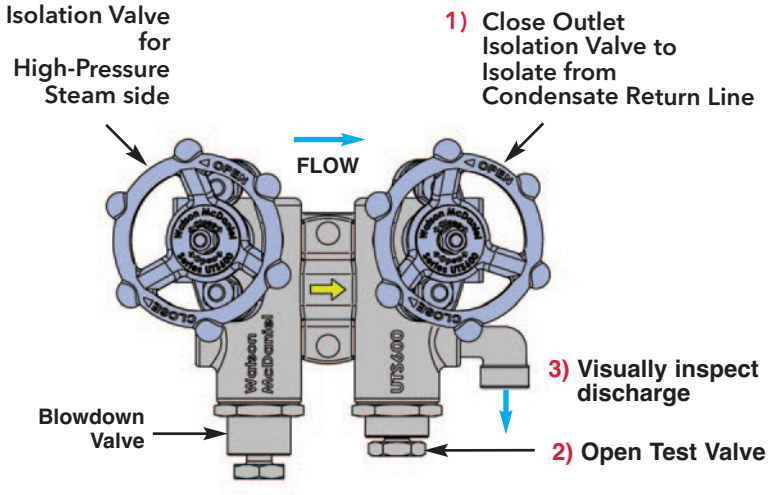
Features of the Watson McDaniel Steam Test Trap Station

Testing steam traps is critical to prevent energy loss and maintain steam system safety. However, testing steam traps is often overlooked due to the tedious and sometimes difficult procedure to accurately assess a steam trap's operation.

The UTS600 Trap Test Station greatly simplifies the process of testing and maintaining a facility's steam trap population. By simply closing the Outlet Isolation Valve and opening the Test Valve, the condensate discharge is isolated from the Condensate Return Line and then routed through the Trap Test Port elbow to visually observe trap discharge. Visual inspection of a steam trap's discharge is the most accurate method of determining if a trap is functioning properly.



UTS600
Trap Test Stations fitted with Inverted Bucket Trap Modules shown on a
CCM-12
(Condensate Collection Manifold)



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