

UNIVERSAL STEAM TRAPS

WD450

Thermodynamic Module (mounts to WU450 Universal Connector)

Watson McDaniel reserves the right to change the designs and/or materials of its products without notice.
©2006 Watson McDaniel Company

Model	WD450
Connections	Fits WU450 universal connector
Body Material	Stainless Steel
PMO Max. Operating Pressure	450 PSIG
TMO Max. Operating Temperature	750°F
PMA Max. Allowable Pressure	720 PSIG @ 100°F
TMA Max. Allowable Temperature	800°F @ 400 PSIG

Steam trap modules **must be used** with the WU450 Universal Connectors which are shown on previous pages.

TYPICAL APPLICATIONS

DRIP, TRACER: The WD450 steam trap module mounted on a universal connector can be used anywhere conventional thermodynamic steam traps are used. Used on drip, tracing and light process applications where removal of air is not critical. The WD450 module mounts to the WU450 universal connector.

HOW IT WORKS

The universal connector is permanently installed into the pipeline where the steam trap would normally be placed. The trap module is bolted to the universal connector with two bolts and sealed with a gasket. 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 manufacturer's 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 thermodynamic design. Universal connector shall conform to the two bolt industry standard with integral strainer and blowdown options.



WD450
Thermodynamic
Steam Trap
Module

INSTALLATION

Isolation valves should be installed before and after the universal connector to facilitate maintenance. The universal connector can be installed in any orientation. Trap module is attached to the connector using two bolts and a sealing gasket.

MAINTENANCE

If the trap fails for any reason, replace only the trap module. If universal connector is equipped with an integral strainer it should be cleaned periodically. For full maintenance details see Installation and Maintenance Manual.

OPTIONS

Universal Connector are available with an integral strainer and blowdown valve. Connector is purchased separately. See the WU450 Universal Connector section for more information.

MATERIALS

Body	Stainless Steel, AISI 420
Disc	Stainless Steel, AISI 420
Cap	Stainless Steel, AISI 416
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	Differential Pressure (PSI)																
	4	10	15	20	25	30	40	50	75	100	150	200	250	300	350	400	450
WD450L	140	215	242	270	295	320	355	390	455	510	600	670	730	790	840	880	925
WD450	247	370	420	475	520	560	625	685	800	900	1060	1185	1300	1400	1485	1560	1630