

LIQUIDATOR UMT-TD Series Thermodynamic Steam Trap

Applications

- Unit Heaters
- Laundry Equipment
- Steam Tracing
- Plating Tanks
- Drip Legs
- Platen Presses
- Tire Presses
- Cooking Equipment

**Pressures To 450 PSIG
Temperatures to 650°F**

Easily Maintained

Four bolt cover permits easy in-line rebuilding for less than the cost of replacement.

Optional Integral Strainer

Helps prevent dirt and scale build-up on valve seat.

Excellent Energy Savings

Positive shutoff assures no loss of steam during normal operation.

Fits all Universal Connectors

Liquidator body will replace any manufacturers' universal mount trap body.

Easily Replaced

Two bolt design permits rapid removal without breaking pipe connections.

Freeze Proof

Self draining when installed vertically.

Durability and Long Service Life

Stainless steel body and cover with stainless steel Celtron® Cartridge for maximum corrosion, thermal and hydraulic shock resistance.

Unaffected by Ambient Conditions

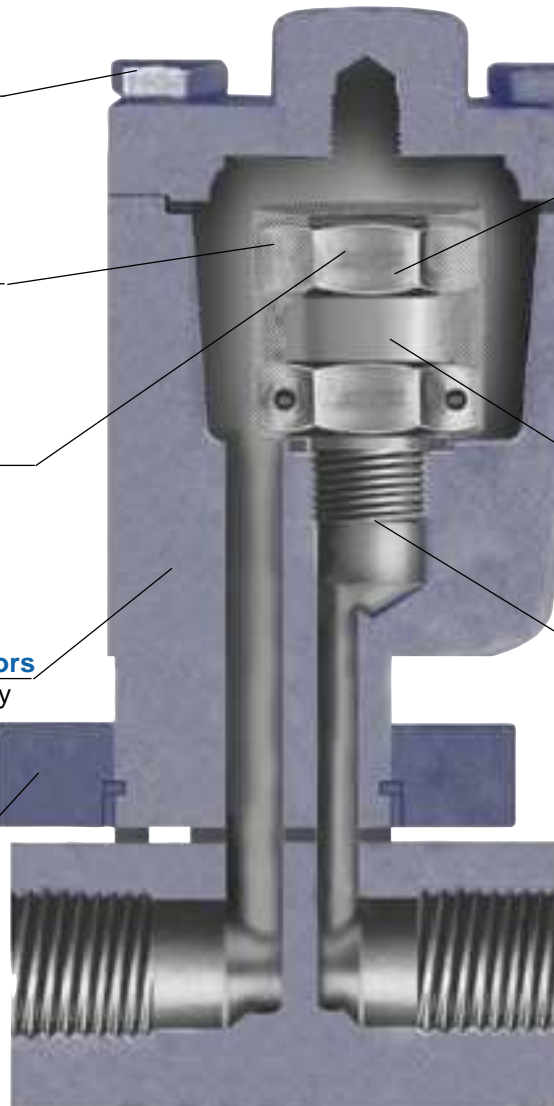
Steam jacketing minimizes steam loss.

Blast Discharge

Clears away dirt and scale.

3 Year Guarantee

Guaranteed against defects in material and workmanship.





UMT-TD SERIES TRAP AND UMTC CONNECTOR

APPLICATIONS

- Steam Tracing
- Drips
- Light Process

OPTIONS

- SW - Socketweld Connections
- B - Blowdown Valve

Canadian Registration # 0E13886

For information on Big Block UMTVS-BB Connector
SEE PAGE 116

Celtron®
plastic-packed
replaceable cartridge
for fast and simple
replacement



OPERATION

Incoming air and condensate flow through the trap body and into the Celtron® cartridge. Line pressure raises the disc off the seat allowing complete discharge. When flashing condensate enters the cartridge, flow velocity increases, creating low pressure underneath the disc. Flashing condensate at high velocity strikes the inside wall of the disc chamber and is

LIQUIDATOR UMT-TD UNIVERSAL MOUNT THERMODYNAMIC STEAM TRAPS

Pressures To 450 PSIG (31 barg)
Temperatures to 650°F (343°C)

Easily Maintained — Universal two bolt swivel mounting simplifies removal from system. Kits allow flexibility to replace or rebuild.

Simple Installation — Stainless mounting block mounts permanently into system. Trap installs via two bolt universal connection.

Improved Energy Savings — Lowers steam waste due to steam jacketing. Trap cycle is unaffected by ambient temperatures or precipitation.

Extended Trap Life — Integral strainer keeps disc and seat clean. Non-violent discharge reduces wear. Heavy disc prevents warpage and improves performance.

Easily Maintained — Completely renewable without disturbing piping connections by removing cover, unscrewing and replacing Celtron® cartridge. Celtron® replacement cartridges are packaged individually with cover and gaskets in a protective bag.

Freeze Proof — When mounted vertically or on its side horizontally.

Multi-functional — Integral check valve eliminates need for additional fittings.

Economical — First cost and maintenance cost are low.

MODELS

- **UMT-TD10L**—Low Capacity Trap
- **UMT-TD10**—Standard Capacity Trap
- **UMTC**—Standard connector (1/2" & 3/4" only)
- **UMTCY**—Connector w/Y strainer
- **UMTCYR**—Right Hand Connector w/Y strainer
- **UMTCYL**—Left Hand Connector w/Y strainer
- **UMTVS-BB**—Connector with Isolation Valves, Strainer, Blowdown Valve and Test Port

For complete unit, order trap and connector as separate items.

deflected to the top of the disc causing a pressure buildup. The disc is forced down onto the seat by this pressure imbalance. The trap remains closed as steam in the jacket prevents exposure of the Celtron® cartridge to ambient temperatures. Pressure inside the cap is not lowered until the trapped flash vapor condenses. Condensing steam lowers the pressure above the disc. Disc is then lifted and the cycle repeated.

LIQUIDATOR UMT-TD UNIVERSAL MOUNT THERMODYNAMIC STEAM TRAPS

SPECIFICATION

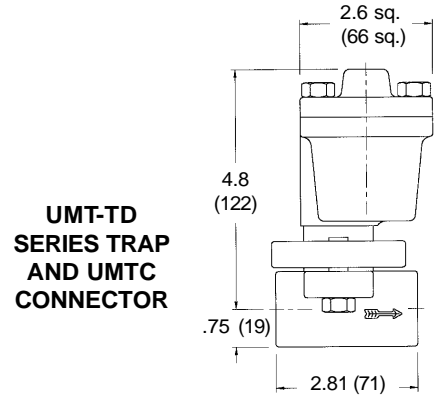
Steam trap shall be of a thermodynamic capsule design. The body shall be of a 304 stainless steel 2 bolt universal swivel construction with a stainless steel in line renewable Celtron capsule. Celtron capsule shall contain all working components. Capsule shall be hardened throughout. Seat shall be stress relieved to eliminate warping. Trap shall seal to body with spiral wound graphite gaskets. Trap shall be suitable for pressures through 450 psi and available in 1/2" through 1" NPT or socketweld connections.

MAXIMUM OPERATING CONDITIONS

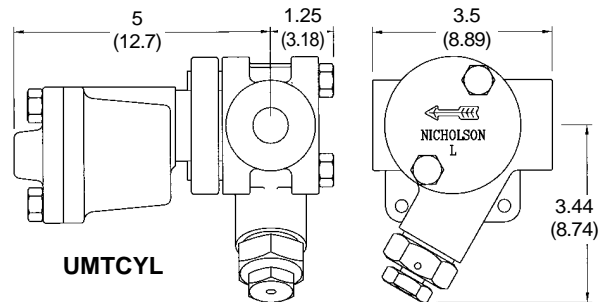
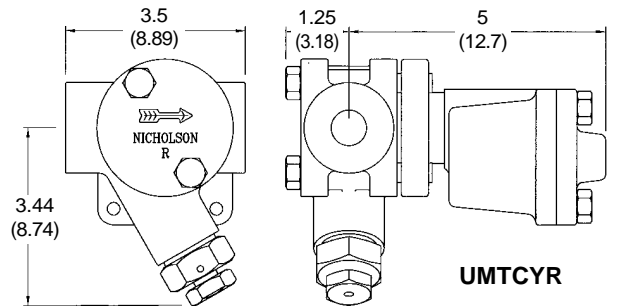
PMO: Max. Operating Pressure	450 psig	(31 barg)
TMO Max. Operating Temperature	650°F	(343°C)
PMA: Max. Allowable Pressure	450 psig	(31 barg)
TMA: Max. Allowable Temperature	650°F	(343°C)

MATERIALS OF CONSTRUCTION

Body & Cover:ASTM A351 Grade CF8 (304)
 Cover Gasket:304 stainless spiral wound w/graphite fill
 Celtron® Cartridge:416 Stainless Steel w/hardened disc & seat
 Strainer:(.033 perf.) 304 Stainless Steel
 Mounting Block:ASTM A351 Grade CF8 (304)



Connections:
1/2", 3/4" or 1" NPT or socketweld



DIMENSIONS - INCHES (MM)

WEIGHT

TRAP - 3.2 LBS. (1.4 KG)

STD. MOUNTING BLOCK - 1.1 LBS. (0.5 KG)

Y STRAINER MOUNTING BLOCK - 2.3 LBS. (1.0 KG)

Maximum Capacity—lbs/hr 10°F Below Saturation										
Trap	Differential – PSIG (barg)									
	5 (0.34)	10 (0.7)	25 (1.7)	50 (3.4)	75 (5.2)	100 (6.9)	200 (13.8)	300 (20.7)	400 (27.6)	450 (31)
UMT-TD10L	105	150	235	330	395	435	550	630	690	715
UMT-TD10	240	265	420	590	700	770	980	1120	1240	1280

For Kg/Hr Multiply by .454

The UMT-TD Series trap works efficiently at all line pressures between 5 and 450 psi and back pressures to 80% of line pressure.