USIB450

Inverted Bucket Steam Trap Module (mounts to UC450 Series Universal Connectors)

Model USIB450, USIB450H
Connections Fits UC450 Series Universal Connectors
Body Material Stainless Steel
PMO Max. Operating Pressure 450 PSIG*
TMO Max. Operating Temperature 800°F
PMA Max. Allowable Pressure 720 PSIG @ 100°F
TMA Max. Allowable Temperature 800°F @ 400 PSIG

*750°F @ operating pressures below 400 PSIG. See installation note regarding using trap in superheated applications.

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

Typical Applications

DRIP, TRACER: The USIB450 inverted bucket steam trap modules must be mounted to a universal connector. They are typically used for drip applications such as draining condensate from steam mains or steam supply lines as well as for steam tracing applications. USIB450H is the higher capacity model.

How It Works

The UC450 universal connector is permanently installed into the pipeline where the steam trap would normally be placed. The trap module, which functions like any standard inverted bucket steam trap, 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.

Sample Specification

The steam trap shall be an all stainless steel modular design, inverted bucket type with a frictionless valve lever assembly. The trap shall have a 360 degree swivel mount on a stainless steel Universal Connector that is available with integral strainer and blowdown valve options.

Options

Universal Connectors are available with an integral strainer and blowdown valve. Connector is purchased separately. See the UC450 Universal Connectors section for more information.

Installation and Maintenance

Universal connector is first permanently threaded or welded into piping system. The USIB trap module is attached to the universal connector with two bolts. When a new trap is needed, it can be easily removed and replaced with a standard open-end or socket wrench without disturbing the existing piping. Trap must be installed in upright position as shown to function properly. With superheated steam, a check valve must be installed at inlet of trap to prevent the loss of prime. In vertical piping installations with upward flow, use of a blowdown valve is not recommended because discharge would be in upward and possibly unsafe direction.

Features

- Trap module can be easily removed and replaced in minutes without having to disconnect any piping
- Hardened stainless steel valves and seat
- Freeze resistant
- Connectors available with integral strainers and blowdown valves
- 360° swivel design for convenient installation

MATERIALS

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<thead>
<tr>
<th>Body Material</th>
<th>Stainless Steel GR CF3</th>
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<tr>
<td>Cover</td>
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<td>Internals</td>
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<td>Gasket</td>
<td>Spiral-Wound 304 Stainless Steel with Grafoil Filler</td>
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<td>Swivel Flange</td>
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CAPACITIES – Condensate (lbs/hr)

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**USIB450**

**Quick-Change Trap Module**

**Inverted Bucket Steam Trap Module** (mounts to UC450 Universal Connectors)

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**Horizontal Piping (Connector with Strainer)**

**Steam Flow to the Right (Standard)**

Trap shown with UC450SR Connector
(Use L Style if a Piping Constraint exists)

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**Vertical Piping (Connector with Strainer)**

**Steam Flow Downward**

Trap shown with UC450SR Connector

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**Vertical or Horizontal Piping (No Strainer)**

**Steam Flow Any Direction**

Trap shown with UC450 Connector

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

<table>
<thead>
<tr>
<th>UC450 CONNECTOR</th>
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**Steam Traps**

- **Inverted Bucket** Steam Trap Module (mounts to UC450 Universal Connectors)
- Connectors available in 1/2", 3/4" and 1" sizes in NPT or Socket-Weld Connections
- **USIB450** and **USIB450H**
  - A-Dimension = 5.81"
  - A-Dimension = 6.81"

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**Contact Information**

- **Tel:** 610-495-5131
- **Pottstown, PA • USA**
- **www.watsonmcdaniel.com**