

**SERIES USIB450 INVERTED BUCKET STEAM TRAP
MODULE with SERIES UC450 UNIVERSAL CONNECTOR**

INSTALLATION INSTRUCTIONS:

1. Before installing trap, blow out piping thoroughly to remove loose dirt and scale. Observe the pressure limitations shown on the trap label.
2. Install a pipe line strainer and collecting leg ahead of trap to protect the trap seat from debris.
3. To provide for easy maintenance and service, install a block valve on each side of the trap.
4. Install the trap below the equipment being drained in a location easily accessible for maintenance and inspection. Be certain the flow arrow on the Universal Connector is pointing in the right direction.

Note: Trap must be primed (filled with water) before start up. Without priming, trap will not operate. This style trap is not recommended for superheated steam service as the prime may be lost to the excessive heat.

For more detailed installation instruction, see full service manual online at watsonmcdaniel.com or call the factory at 610-495-5131.

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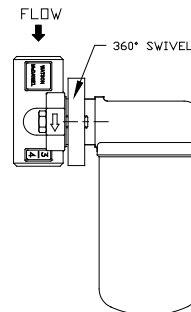
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OPERATION:

During start-up, the trap is open, air and gases vent slowly out of the top of the bucket through the vent hole. Condensate entering through the feed tube forms a water seal on the bottom of the bucket, turning it into a float. When all condensate has been discharged, the steam enters to fill the bucket which then snaps up closing the trap. The bucket would stay in this position, however when the steam condenses, more condensate enters the trap pushing the gases out through the vent hole causing the bucket to be completely submerged in condensate. Loosing its buoyancy, the bucket (its weight being greater than the weight of water) falls, opening the trap.



PRIMING THE TRAP

One way to prime the trap is to fill it with water before installation, or after installation close the isolation valve upstream of the trap for a few minutes so the steam just upstream of the valve will condense, and then slowly open the valve so the condensate fills up the trap.