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SERIES WSI450/WSIB450H

INVERTED BUCKET TRAP MODULE WITH UNIVERSAL CONNECTOR

INSTALLATION INSTRUCTIONS

INSTRUCTION PART NO. 2291000 REVISION 2

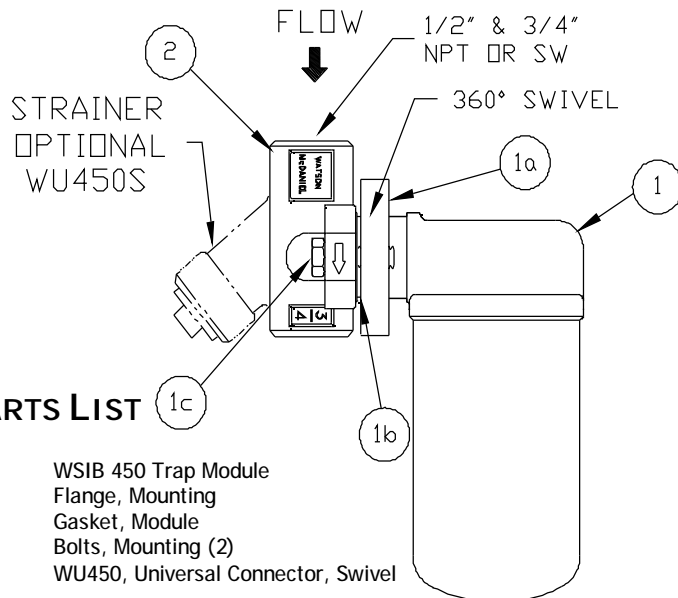
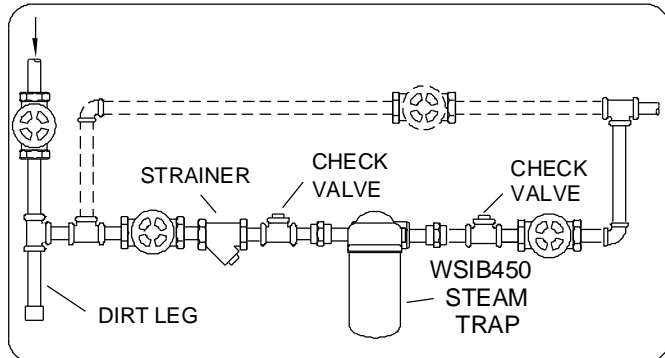
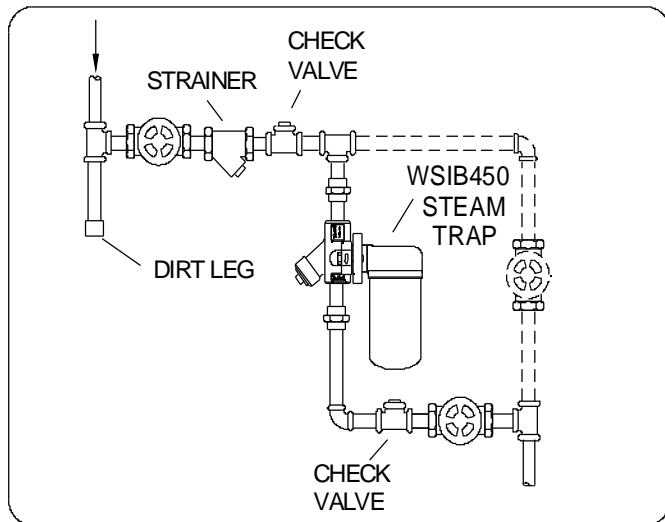
INSTALLATION

Before installing the Watson McDaniel Inverted Bucket Steam Trap, blow down the piping that leads to the trap's inlet. Use full line pressure to remove all scale, chips, debris, etc. Be sure the trap differential pressure rating is adequate for the installation.

Install the trap with the inlet below the liquid level of the equipment to be drained. A sketch of a recommended hookup arrangement is shown below. Make inlet piping as short as possible with a minimum of elbows and other restrictions. Install a dirt leg in the line ahead of the trap. To allow for maintenance, install a valve on each side of the trap and a strainer ahead of the trap inlet. All valves should be of the full ported type to avoid restricted flow.

If the discharge piping is to be elevated, be sure that the differential pressure is adequate to overcome this lift. Install a check valve (optional) in the discharge piping near trap to prevent backflow when the system is not operational.

NOTE: Trap must be primed (fill 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. (See superheat note.)



PARTS LIST

- 1) WSIB 450 Trap Module
- 1a) Flange, Mounting
- 1b) Gasket, Module
- 1c) Bolts, Mounting (2)
- 2) WU450, Universal Connector, Swivel

MODULE REPLACEMENT

Isolate unit from both supply and return line pressures.

Wait until trap module can be comfortably touched by hand.

Remove (2) bolts and discard old WSIB450 trap module.

Inspect seating area of universal connector & remove remnants of old gasket. Do not scratch sealing surfaces.

Attach new trap module to universal swivel connector. Apply anti-seize compound to bolt threads and evenly torque 35 - 40 ft-lbs.

Slowly open upstream and downstream valves.

MAX. ALLOWABLE CONDITIONS:

PMO	450 PSIG	PMA	720 PSIG @ 100°F
TMO	750°F	TMA	750°F @ 400 PSIG

MAXIMUM OPERATING PRESSURES

WSIB450 - 20	20 psig (1.4 barg) PMO
WSIB450 - 80	80 psig (5.5 barg) PMO
WSIB450 - 125	125 psig (8.6 barg) PMO
WSIB450 - 200	200 psig (13.8 barg) PMO
WSIB450 - 450	450 psig (31 barg) PMO

IF SUPERHEAT IS PRESENT

To maintain prime in trap install a check valve at the trap inlet, and/or install a bypass above trap.

Each Watson McDaniel Company Product is warranted against defects in material and workmanship for one year from date of shipment. This warranty extends to the first retail purchaser only. All defective material must be returned to the person from whom you purchased the Product, transportation prepaid, free of any liens or encumbrances, and if found to be defective will be repaired free of charge or replaced, at the warrantor's or seller's option. If the material is replaced, any replacement will be invoiced in the usual manner and after inspection of alleged defective material an adjustment will be made for depreciation caused by purchaser's use. In no event will Watson McDaniel Company be liable to do more than refund the original contract price. Incidental and consequential damages are excluded, whether under this warranty or otherwise. All implied warranties, including warranties of merchantability and fitness for a particular purpose, are disclaimed and excluded.