

WMT-AB Bimetallic Steam Trap Installation and Operation Manual

IOM-27



General Safety Information

Selection or installation of equipment should always be accompanied by competent technical assistance. You are encouraged to contact Armstrong International, Inc. or its local sales representative for additional information.

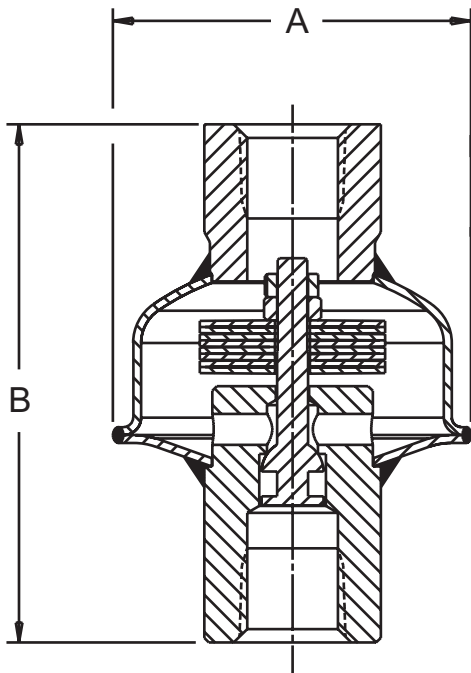
Product Information

The thermostatic bimetallic steam trap, type WMT-AB stainless steel is designed for pressures to 250 psig (17 barg) Cold water Start-Up Capacities to 2,850 lb/hr. (1,292 kg/hr.) This trap adjusts automatically to flow rates, including start-up loads, at all pressures within its range.

The WM-AB is targeted for light load tracing applications in chemical plants and refineries. In some of these applications, condensate return for the tracers is not possible or has not yet been implemented by the customer.

In remote areas of the plant or simply areas where the individual tracer lines are permitted to hang down from the pipe work a lightweight trap is required.

The WMT-AB can also be installed in any position and is freeze-proof if installed vertically down. Unlike thermostatic traps containing liquid filled wafers or capsules, the WMT-AB incorporates a rugged bimetallic element that gives it a greater tendency to fail open. It also has better dirt plugging resistance than a thermostatic capsule or wafer trap. Its start-up capability (ability to flush out cold water and dirt particles) is very high relative to its compact size.



WMT-AB Thermostatic Wafer Steam Trap				
Model No.	WMT-AB			
Pipe Connections	in	mm	in	mm
	3/8	10	1/2	15
"A" (Diameter)	2-1/4	57	2-1/4	57
"B" (Height)	3-5/16	84	3-5/16	84
Weight lb (kg)	1-1/4 (0.6)		1-1/4 (0.6)	

Model	WMT-AB
Connections	Screwed NPT
Material	
Cap and body	ASTM A240 Type 304L
Valve	Chrome Steel
Seat	ASTM A479 Type 304
Element	Nickel Plated
Maximum Operating Conditions	
Maximum allowable pressure (vessel design)	250 psig @ 406°F (17 barg @ 207°C)
Maximum operating pressure	250 psig (17 barg)

Product Installation

Steam Trap installation is critical from both a performance and maintenance aspect. Installation of the trap is simplified if you follow these guidelines:

1. Prior to any type of maintenance work taking place, insure that the steam main which is going to be worked on is isolated and no live steam is in the line. Test the line to be worked on prior to removing or installing any equipment to insure it is safe.
2. Before installing the Trap, insure cleanliness of the line and connections.
3. Install the trap so that it is accessible for inspection and repair. Use pipe thread sealant sparingly.
4. For proper operation the trap body must be installed with respect to the flow direction. Installation of the trap in a vertical position with downward flow will insure that this trap will not freeze.
5. On tracer applications, be sure to use only one trap for each tracer line. Always insure that the tracer line is pitched downward towards the trap.
6. In tracing applications it is best to insulate the trap as well as the product and tracer lines.
7. Additional supports or bracketing are not needed for the trap.

Maintenance Requirements

Prior to any type of maintenance work taking place, insure that the steam main which is going to be worked on is isolated and no live steam is in the line. Test the line to be worked on prior to removing or installing any equipment to insure it is safe.

When performing maintenance on any steam trap, the common practice is to remove the trap in question and immediately install a good trap in its place. Maintenance can then be performed with minimum equipment downtime. There are no internal parts on the WMT-AB that can be serviced. If the trap has been deemed failed, it should be removed from service and replaced.

Troubleshooting

1. Tracer traps should be tested yearly on application up to 100 psig (7 barg), and twice a year for higher pressures.
2. When a steam trap is suspected of malfunctioning, it can be checked by observing the discharge of the trap.
3. If the trap cannot be made to operate normally, verify that the trap is correct for the application (capacity, differential pressure, etc.). If correct, install a new Armstrong steam trap of the same series and of equal capacity in its place.

****Note:** For additional information on Bimetallic Steam Traps, contact your Armstrong Representative.

Repair Parts

There are no internal parts on the WMT-AB that can be serviced therefore repair parts are not available for this product.

Limited Warranty and Remedy

Armstrong International, Inc. or the Armstrong division that sold the product (“Armstrong”) warrants to the original user of those products supplied by it and used in the service and in the manner for which they are intended, that such products shall be free from defects in material and workmanship for a period of one (1) year from the date of installation, but not longer than 15 months from the date of shipment from the factory, [unless a Special Warranty Period applies, as listed below]. This warranty does not extend to any product that has been subject to misuse, neglect or alteration after shipment from the Armstrong factory. Except as may be expressly provided in a written agreement between Armstrong and the user, which is signed by both parties, Armstrong **DOES NOT MAKE ANY OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

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