



YARWAY ST600 AND ST800 SERIES SANITARY THERMOSTATIC STEAM TRAPS

INSTALLATION INSTRUCTIONS

Before installation, these instructions must be read carefully and understood.

INTRODUCTION

This document covers the installation and maintenance of the ST600 and ST800 Series Sanitary steam traps.

SPECIFICATION DATA

Maximum Operating Temperature

338°F (170°C)

Maximum Operating Pressure

100 psig (6.9 bar)

Gasket Approvals

FDA

USDA

USP Class VI

3A Sanitary Standard

NSF

Options

Electropolish Finish

SLR Orifice

Sensitive Bellows

INSTALLATION

WARNING

Personal injury, property damage, equipment damage or leakage due to escaping steam or bursting of pressure-containing parts may result if this trap is over pressured or is installed where service conditions could exceed the limits given in the specifications or where conditions exceed any ratings of the adjacent piping or piping connections. To avoid such injury or damage, provide pressure-relieving or pressure-limiting devices (as required by the appropriate code, regulation or standard) to prevent service conditions from exceeding those limits.

1. Install trap in a vertical line with the inlet at the top and the outlet at the bottom.

NOTE

Although these traps function both horizontally and vertically, the ST600 Series is self-draining when installed vertically, while the ST800 Series is self-draining when installed in horizontal or angled piping configuration.

2. Install 1/2 to 3/4 in. (12.7 to 19.0 mm) service trap with 3/4 in. (19.0 mm) inlet gasket.

Install 1 to 1-1/2 in. (25.4 to 38.1 mm) service trap with 1-1/2 in. (38.1 mm) inlet gasket.

3. Isolate the sanitary steam trap by using a valve suitable for sanitary steam applications.

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MAINTENANCE INSTRUCTIONS

WARNING

To avoid personal injury, property damage or equipment damage caused by sudden release of pressure or explosion of accumulated gas, do not attempt any maintenance or disassembly without first isolating the trap from system pressure and return lines. Relieve all internal pressure from the steam trap and ensure the trap is cool prior to any maintenance.

Steam traps that have been disassembled for repair must be tested for proper operation before being returned to service. Only parts manufactured by Emerson should be used for repairing steam traps.

Due to normal wear or damage that may occur from external sources, this steam trap should be inspected and maintained periodically. The frequency of inspection and replacement of parts depends upon the severity of service conditions or the requirement of local, state and federal rules and regulations.

If a leak develops, service to the unit may be required. Failure to correct trouble could result in a hazardous condition. Only a qualified person must install or service the unit.

CAUTION

Do not remove the hot thermostatic element from the steam trap.

1. Once steam trap is isolated from system pressure and cooled, unscrew and remove the wing nut off the clamp.
2. Remove the clamp.
3. Separate the outlet and inlet parts from the assembly.
4. Remove and inspect the gasket and replace as necessary.
5. Remove the actuator plate.
6. Remove the bellows element and replace as necessary.
7. Remove the steam trap outlet with internal seat, gasket and element for inspection, cleaning or replacement.
8. Reassemble using a new gasket and place element assembly into position.
9. Check for leaks after pressurizing system.

To reassemble:

1. Position the bellows valve down on the outlet.
2. Ensure the actuator plate sits into the groove.
3. Spray food grade silicone on both sides of the gasket when replacing.
4. Place the gasket onto the outlet, such that the outer lip of the gasket sits over the outside of the outlet.
5. Place the inlet into the gasket.
6. Wrap the clamp around the inlet and outlet.
7. Hand-tighten the wing nut.
8. Check for leaks after pressurizing the system.

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