

November 2021

Spence FTN Series Float and Thermostatic Steam Trap

Introduction

This installation sheet covers the installation and maintenance of the FTN Series Steam Trap.

Specifications

Available Models

- Type FTN-15:** Steam pressures to 15 psig / 1.03 bar
- Type FTN-30:** Steam pressures to 30 psig / 2.07 bar
- Type FTN-75:** Steam pressures to 75 psig / 5.17 bar
- Type FTN-125:** Steam pressures to 125 psig / 8.62 bar
- Type FTNA-75:** Air pressures to 75 psig to 5.17 bar
- Type FTNA-125:** Air pressures to 125 psig / 8.62 bar

Available Sizes

NPS 1/4, 1, 1-1/4, 1-1/2 and 2 / DN 25, 32, 40 and 50

Maximum Temperature

450°F / 232°C

Maximum Operating Pressure

125 psig / 8.62 bar

Maximum Allowable Pressure

250 psig / 17.2 bar

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.

To avoid personal injury or property damage from sudden release of pressure, isolate the steam trap from the pressure system and release all pressure and steam from the trap before performing maintenance operations.

The maximum differential pressure (ΔP) stamped on product name plate must be greater than the maximum pressure differential across the trap.

Before installing:

- Install traps in an accessible position and location for easy servicing. Be sure to install trap straight and in a level position to ensure proper operation.
- Install trap below and close to the equipment being drained, avoid long lengths of horizontal piping ahead of trap.
- Pitch all horizontal inlet lines toward the steam trap to help eliminate potential water hammer.
- Recommended installation to always provide a dirt pocket and strainer with blow down above the trap, see Figure 1.

Following the piping combinations, see Figure 2, place the pipe plugs in the two unused connections on all NPS 3/4, 1 and 1-1/4 / DN 20, 25 and 32, Types FTN-15 and FTN-30 traps.

Maintenance



WARNING

To avoid personal injury or property damage from sudden release of pressure, isolate the steam trap from the pressure system and release all pressure and steam from the trap before performing maintenance operations.

- Install union fittings and shut off valves on both sides of the trap for ease of servicing and trap testing.
- Remove accumulated dirt and sludge by “blowing down” through the drain in the bottom of the trap.
- Inspect the trap mechanism periodically and remove all dirt from the working parts.
- Replace worn parts.

FTN Series

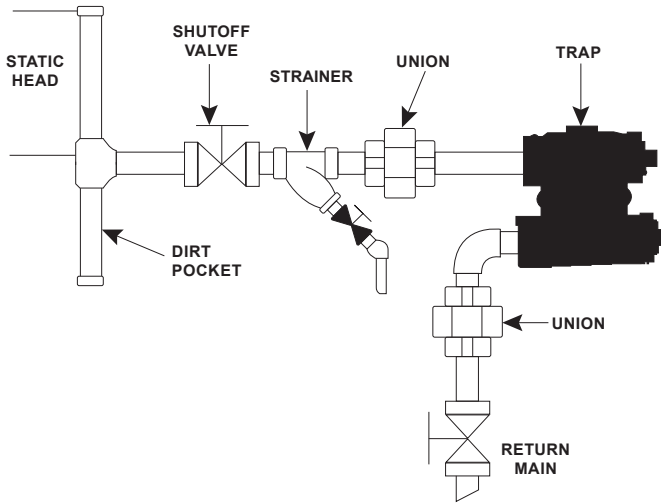


Figure 1. Typical Installation

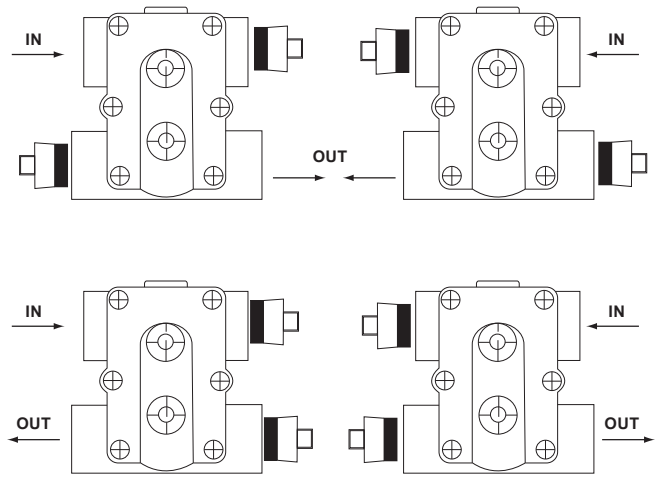


Figure 2. Piping Combinations

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