

Installation, Operating & Maintenance Instructions

Thermodynamic Steam Traps

Introduction

The COLTON thermodynamic steam trap is designed to automatically drain the condensate from steam equipment and steam mains.

Warning:

Steam systems can be dangerous and safety precautions must be observed. Before working on steam equipment, make sure that the pressure has been released and the equipment has cooled.

Installation:

There is an arrow on the body of the thermodynamic steam trap to indicate direction of flow and this unit may be installed in any position below and close to the equipment being drained. If the unit to be trapped does not have a sump or reservoir then a drip leg must be fitted at the drain location and your steam trap should be installed below the drain point in an accessible position and location for easy servicing. The maximum pressure differential across the selected steam trap must not exceed the maximum operating pressure (PMO) shown on the nameplate.

Before installing your steam trap, blow all dirt and scale from the equipment and piping. Install the trap below and close to the equipment being drained - avoiding long lengths of horizontal piping leading to the steam trap. The thermodynamic steam trap is freeze-proof when installed in the vertical downward position with the discharge piping exhausting to a gravity return or to atmosphere.

All models (even those with an integral screen) should have a line strainer installed ahead of them and union fittings and shut-off valves should be installed on both sides of the trap for ease of testing and maintenance. A test and exhaust valve installed on the trap outlet can be used to relieve line pressure prior to servicing and to allow you to visually check the trap for steam leaks during future inspections.

Maintenance:

We recommend blow down of accumulations in the strainer shortly after installation and at each scheduled maintenance or inspection of the steam trap. The steam trap disc and seating surface should be inspected periodically and all dirt removed from the working parts - clean with a cloth to avoid scratching the seating surfaces.

