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Installation, Operating & Maintenance Instructions

CT Series Balanced Pressure Thermostatic Steam Traps

Introduction

The COLTON CT Series balanced pressure thermostatic steam trap is designed to automatically drain the condensate from steam equipment and steam mains and can be supplied with any of three different capsules for releasing condensate at different degrees below the temperature of saturated steam at any pressure within its operating range.

both the capsule and the nameplate are stamped with a letter designating the supplied capsule:

'S' (standard) 10 deg. C. 'H' (high) 5 deg. C. 'L' (low) 30 deg. C.

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 thermostatic 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 thermostatic steam trap (except the angle pattern model) 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 thermostatic capsule and seating surfaces should be inspected periodically and all dirt removed from the working parts - clean with a cloth to avoid scratching the seating surfaces. Worn parts must be replaced.