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Installation, Operating & Maintenance Instructions Flash Vessels

INTRODUCTION

The IFC flash vessels are designed to separate flash steam from high pressure/high temperature condensate to supplement a lower pressure steam system.

Note: If the steam system or equipment providing the high pressure/high temperature condensate for flashing cannot withstand the continuous back pressure of the lower pressure steam system to be supplemented, *do not utilize a flash vessel.*

WARNING:

Piping systems can be dangerous - safety precautions must be observed. Before working on equipment, make sure that it has been isolated, the pressure has been released and, where necessary, the unit has been cooled.

INSTALLATION:

This vessel is designed for vertical installation and is provided with three support legs and foot pads with anchor holes for securing the unit to the floor.

The condensate inlet is the flanged connection on the side of the vessel and the flash outlet is the flanged connection at the top.

The operating pressure and temperature of this flash vessel (stamped on the nameplate) must be greater than the maximum operating pressure of the lower pressure steam system being supplemented.

ANCILLARY EQUIPMENT:

Each flash vessel requires:

- Pressure Gauge - a pressure gauge, syphon and cock should be installed at the provided 1/2" NPT connection.
- Steam Trap - a properly sized steam trap and strainer is to be fitted to the bottom outlet connection.
- Safety valve - a properly sized safety valve (set no higher than the stamped operating pressure) is to be fitted to the provided NPT connection directly above the flanged condensate inlet.

MAINTENANCE:

Colton flash vessels are fabricated from standard schedule 40 pipe and fittings, they have no moving parts and are relatively maintenance free. However, we do recommend an annual inspection for wall erosion due to internal velocity. Much like any steam piping system, wall erosion is inevitable and will reduce the allowable operating pressure of the vessel.

See the following diagram:

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