Installation and Maintenance Guide

SPENCE
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NICHOLSON STEAM TRAP
A division of CIRCOR International, Inc.



ELIMINATOR STEAM SEPARATOR

for Steam and Compressed Air Systems

It is solely the responsibility of the system designer and the user to select products and materials suitable for their specific application requirements and to ensure proper installation, operation and maintenance of these products. Assistance shall be afforded with the selection of the materials based on the technical information supplied to Spence Engineering Company, Inc.; however, the system designer and user retain final responsibility. The designer should consider applicable Codes, material compatibility, product ratings and application details in the selection and application. Improper selection, application or use of the products described herein can cause personal injury or property damage. If the designer or user intends to use the product for an application or use other than originally specified, he must reconfirm that the selection is suitable for the new operating conditions.

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CAUTION!

The piping system must be adequately designed and supported to prevent extraordinary loads to the pressure equipment.

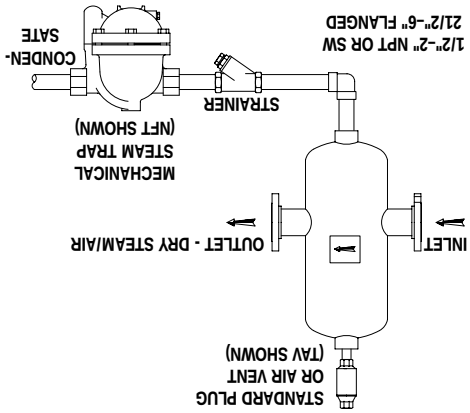
INSTALLATION

1. Be sure to use the correct Eliminator Steam Separator Sizing Tables for Steam or Compressed Air Service.
2. Install the steam separator as close to the point of use as possible to assure the cleanest and driest air or steam possible.
3. The steam separator shall be installed in a horizontal pipe configuration with the drain directly below the line.
4. The steam separator must be installed according to the directional flow arrow for effective operation. With the faceplate showing, the flow is from left to right.
5. A properly sized mechanical steam trap must be installed on the NPT drain connection at a minimum of 6" below the Steam Separator. For every inch of horizontal piping to trap, add one inch to the vertical piping. Do not reduce separator drain size except at trap inlet. Never allow the top of the trap to extend above separator drain connection. A Y-strainer positioned after the steam separator drain and before the steam trap will help prevent dirt and scale from reaching the steam trap and is highly recommended.
6. In steam systems where air is present, it may be necessary to install an air vent on the top NPT connection of the steam separator. If an air vent is not installed, the standard plug must remain in the NPT connection port.
7. The steam separator may be insulated to provide more efficient operation.
8. When replacing a unit, the pressure in the system should be isolated and vented to atmosphere. Allow time for the unit temperature to normalize before conducting removal.

SIZING INSTRUCTIONS

Refer to product literature for sizing information.

TYPICAL INSTALLATION



MAINTENANCE

Warning: Injury or death can occur due to failure to completely isolate valve from all sources of pressure before beginning disassembly. Do not proceed until valve has been completely isolated from process stream and vented to atmosphere.

1. Once installation is complete, regular maintenance is not required.
2. Steam traps, Y-strainers, and other associated components must be maintained and serviced as recommended.