

January 2022

Spence NTD600 Series Steam Trap



WARNING

CALIFORNIA PROPOSITION 65

This product can expose you to chemicals including nickel, which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Introduction

This installation sheet covers the installation and maintenance of NTD600 Series Steam Trap.

Specifications

Maximum Temperature

800°F / 426°C

Pressure Range

2 to 600 psig / 0.14 to 41.3 bar

Maximum Back Pressure

80% of Line Pressure

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 before performing maintenance operations.

1. Before installing trap, blow all dirt and scale from apparatus and piping.
2. Install trap with arrow on body in flow line as close as possible to apparatus with strainer and valve upstream of trap as shown in Figure 1.
3. Pitch all drain lines toward trap.

Note

Approved practice is to install separate traps on each piece of apparatus to be drained. Steam supplied to inlets of several units may be of uniform pressure, but invariably there is a differential at the outlets. Although this differential may be small, unit discharging highest pressure will control the action of trap, while other units become air-bound and waterlogged.

Piping upstream and downstream of trap should be at least equal to or one size larger than trap connection. Trap installation as shown in Figure 1 is freeze-proof.

4. Retighten cap screws of all socket weld traps after field or shop welding. See recommended torque values on Table 1.
5. Record the location of the trap for maintenance accessibility.

NTD600 Series

Maintenance



WARNING

If a leak develops, service to the unit may be required. Failure to correct trouble could result in a hazardous condition. Only a qualified person must install or service the unit.

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 before performing maintenance operations.

- Blow-off of accumulations in strainer a day or two after the system has been installed.
- Perform a periodic blow-off or cleaning of strainer.
- Clean disk or base of Celtron® unit with soft cloth and solvent. Do not wire brush or use any rough implement. Dirt or sediment on these parts will cause abnormal operation.
- Reassemble Celtron® unit with groove in disk down.
- Apply anti-seize compound on all threads and gaskets. Avoid getting compound on disk or base seating surfaces.
- Trap can be rebuilt by insertion of new Celtron® unit.

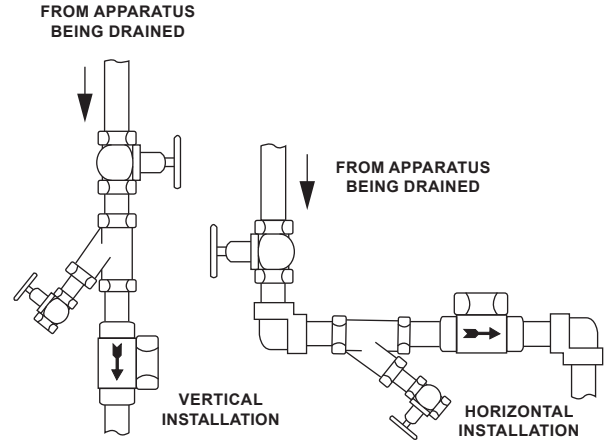


Figure 1. NTD600 Series Steam Traps Installation

Table 1. NTD600 Series Steam Traps Torque Values

| TRAP SIZE | | COVER TORQUE | |
|-----------|----|--------------|------------|
| NPS | DN | Ft-lbs | N•m |
| 3/8 | 10 | 65 to 75 | 88 to 102 |
| 1/2 | 15 | 85 to 95 | 115 to 129 |
| 3/4 | 20 | 105 to 115 | 142 to 156 |
| 1 | 25 | 120 to 130 | 163 to 176 |

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