**THERMODYNAMIC STEAM TRAP**

**Features**
- High pressure applications up to 600 PSIG
- Hardened stainless steel seat and disc for extended service life even at high pressure
- Single trap will operate over the entire pressure range of 3.5-600 PSIG (recommended above 30 PSIG)
- Suitable for superheated steam
- Freeze-proof when trap is piped in a vertical orientation for complete drainage of condensate
- Three-hole balanced discharge extends life of the seat area
- Trap will function in any orientation (horizontal preferred)

**Sample Specification**

The steam trap shall be a thermodynamic disc type with all stainless steel construction. Integral seat design and disc to be hardened for long service life. Unit shall be capable of installation in any orientation and self-draining when mounted vertically.

**Installation and Maintenance**

The TD600 can be installed in any orientation; however, horizontal with cap facing upward is preferred for longest service life. The one piece body-seat design is extremely simple and economical; however, this configuration is generally considered not fully repairable since the seat cannot be repaired if damaged or worn. Welding of trap body directly into pipeline is not recommended since excessive heat may cause distortion of the seat area. The TD600 does not contain an integral strainer and separate strainer should therefore be installed to protect from dirt and pipe scale. If a fully in-line repairable design or a trap that can be welded into pipeline is desired, the TD700S, TD900S or the UTD450 with Universal Quick-Change connector is recommended.

**Helpful Selection Information**

The TD600L has reduced size discharge orifice holes which are preferable in terms of performance, longevity, and efficiency; particularly on pressures over 150 psi. For most drip applications the 1/2" TD600L should have sufficient capacity. For higher load drip applications or if a 3/4" pipe connection is required, use 3/4" TD600L for best results. Choosing a model with a condensate handling capacity in the range of the specific application will prolong trap life.

**Options**

An insulation cap is available to reduce cycle rates and steam loss in rain, snow, or cold environments.
Steam Traps
Thermodynamic Steam Trap

How to Size / Order
Select working pressure; follow column down to correct capacity (lbs/hr) block. Example:

Application: 500 lbs/hr at 100 PSIG working inlet pressure
Size/Model: 3/4” TD600L-13-N

MATERIALS
Body: Stainless Steel, AISI 420F
Disc: Stainless Steel, AISI 420
Cover: Stainless Steel, AISI 416
Insulation Cap: Stainless Steel, AISI 304

CAPACITIES – Condensate (lbs/hr)

| Size | Model Code | Connection | 3.5 | 5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 75 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
|------|------------|------------|-----|---|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1/2” | TD600L-12-N | NPT | 180 | 185 | 190 | 195 | 200 | 215 | 220 | 230 | 250 | 310 | 375 | 500 | 620 | 710 | 800 | 825 | 900 | 1070 | 1120 | 1185 | 1290 |
| 3/4” | TD600L-13-N | NPT | 300 | 315 | 350 | 380 | 415 | 440 | 470 | 515 | 580 | 710 | 825 | 1020 | 1165 | 1300 | 1440 | 1565 | 1670 | 1775 | 1880 | 1960 | 2060 |
| 3/8” | TD600-11-N | NPT | 180 | 185 | 190 | 195 | 200 | 215 | 220 | 230 | 250 | 310 | 375 | 500 | 620 | 710 | 800 | 825 | 900 | 1070 | 1120 | 1185 | 1290 |
| 1/2” | TD600-12-N | NPT | 300 | 315 | 350 | 380 | 415 | 440 | 470 | 515 | 580 | 710 | 825 | 1020 | 1165 | 1300 | 1440 | 1565 | 1670 | 1775 | 1880 | 1960 | 2060 |
| 3/4” | TD600-13-N | NPT | 415 | 430 | 475 | 520 | 565 | 610 | 650 | 720 | 825 | 1020 | 1185 | 1480 | 1710 | 1950 | 2110 | 2265 | 2490 | 2625 | 2780 | 2985 | 3140 |
| 1”  | TD600-14-N | NPT | 650 | 680 | 740 | 815 | 885 | 940 | 1000 | 1080 | 1225 | 1500 | 1800 | 2215 | 2625 | 2935 | 3300 | 3600 | 3875 | 4120 | 4350 | 4560 | 4840 |

Notes:
1) Maximum back pressure not to exceed 80% of inlet pressure (measured in absolute pressure) or trap may not close.
2) For optimum performance, recommended for operating pressure above 30 PSIG.