

CDS SANITARY THERMOSTATIC STEAM TRAPS

Pressures to 100 PSIG (6.9 barg)
Temperatures to 338°F (170°C)

Steepest Interior Surfaces—Designed to completely drain without puddling.

Stainless Steel Body—Body Material is 316L Stainless Steel with 20 µ in. Ra internal finish and 32 µ in. Ra external finish. Available with mechanical polishing to 10 µ in. Ra and/or electropolish.

Self centering Valve—Leak tight shut off. Assembly of actuator and valve to impingement plate allows the valve to self align with center of the orifice.

Temperature Sensitive Actuator—One moving part. 316L Stainless Steel, full open, welded actuator for maximum corrosion, thermal and hydraulic shock resistance.

Directional Discharge—Erosion prevented by directing discharge to center of piping.

Maintenance—Can be easily removed and disassembled for sterilization and/or repair.

Three Year Guarantee—Guaranteed for three years against defects in material or workmanship.

Industry Standard Food Grade Gasket—White Viton food grade gasket offers superior performance for higher pressure steam applications.

Large Orifice Selection—Broad selection of orifice sizes provide greatest sizing and selection flexibility.

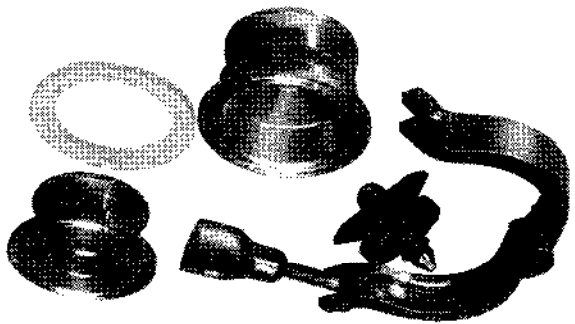
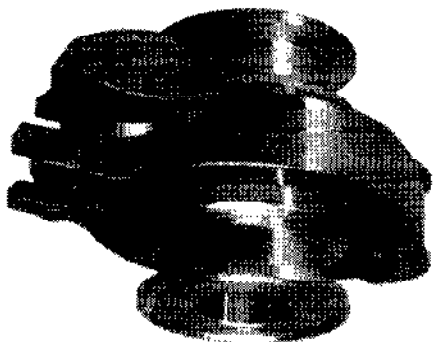
Superior Air Handling—Best air handling capability provides for fast startup.

Unique SLR Orifice Option—Provides drainage at saturated temperatures, instant reaction to load changes and guaranteed fail-open operation for extra critical operations. **Bar Stock**—Connection fittings are not welded onto inlet and outlet pieces.

MODELS

- CDS202—Low capacity
- CDS203—Medium capacity
- CDS204—High capacity

NOTE: Please specify if Material Test Reports (MTR) or Certificates of Conformance (COC) are required.



APPLICATIONS

- CIP/SIP System Condensate Drainage
- Sterilization of Process Vessels
- Cullinary Steam
- Humidifiers
- WFI System Sterilization
- Fermenter Sterilization

OPTIONS

- MP - Mechanical Polish to 10 Ra
- EP - Electropolish
- SLR - SLR Orifice
- Tef-Steel, PTFE, Teflon®, E.P.D.M., & other gasket materials available
- B-Bellows for low subcool

Canadian Registration # 0E0591.9

OPERATION

Thermal actuator is filled at its free length with a liquid having a lower boiling point than water. On start-up, valve is normally open to discharge air, non-condensibles and condensate. When steam enters trap, thermal actuator fill vaporizes to a pressure higher than line pressure. This

forces valve into seat orifice to prevent any further flow. As condensate collects, it takes heat from the actuator, lowering internal pressure. Line pressure will then compress thermal actuator to open valve and discharge condensate. Valve opening automatically adjusts to load conditions from minimum on very light loads to full lift at maximum load.