CDS SANITARY THERMOSTATIC STEAM TRAPS

SPECIFICATION

Steam trap shall be of balanced pressure design with inconel welded bellows capable of releasing condensate within 10°F of saturated pressure. All other interior wetted components shall be of 316L stainless. It shall have interior body finish of at least 20 µ in. Ra and exterior body finish of at least 32 µ in. Ra. Trap shall utilize sanitary body clamp allowing disassembly for inspection or cleaning and be entirely self draining when installed in vertical configuration. Trap end connections shall be standard tri-clamp. Thermostatic actuator shall employ a conical valve lapped to the seat. A minimum of three orifices shall be available.Traps shall have SLR orifice where drainage at saturated temperatures s required. Traps shall be guaranteed against defects for 3 years.

MAXIMUM OPERATING CONDITIONS

PMO: Max. Operating Pressure	100 psig	(6.9 barg)
TMO: Max. Operating Temperature	338°F	(170°C)
PMA: Max. Allowable Pressure	150 psig	(10.3 barg)
TMA: Max. Allowable Temperature	366°F	(186°C)

BODY SURFACE FINISH

<20 µ in. Ra internal <32 µ in. Ra external

optional mechanical polishing to 10 µ in. Ra and/or electropolish

GASKET APPROVALS

FDA, USDA, USPH Class 6, 3A Sanitary Standard, NSF

SERVICE NOTES

Trap is designed to be self draining for vertical installation (discharge down).

½" - ¾" service trap should be installed with ¾" inlet gasket.

1" - 1½" service trap should be installed with 1½" inlet gasket.

SLR ORIFICE OPTION

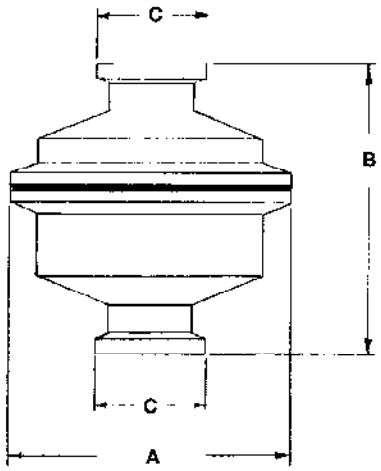
Specify when immediate elimination of condensate and improved sensitivity is desired. A 1/32" orifice at the apex of the valve allows for continuous discharge of condensate. Trap will nominally pass 50 lb/hr of condensate at 50 psi within 2°F of saturated temperature.

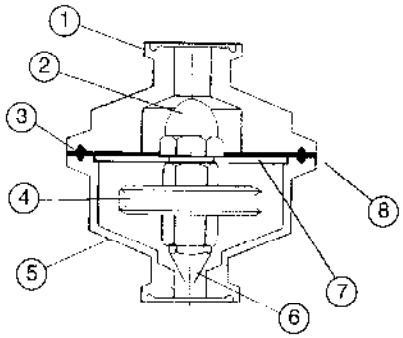
POLISHING PROCEDURE

All surface finishes are achieved without the use of additional buffing, compounds or grit.

-B BELLOWS

3°F subcool for sensitive applications under 45 psi (204 capacity only).





Connections: 1/2" – 1½" Tri-clamp

Dimensions				
Service	inches (mm)			Weight Lbs. (kg)
	A	B	C	
½", ¾"	2 1/2	2 5/8	1 63/64	1.8
1", 1 ½"	2 1/2	2 5/8	1 63/64	2.3

Materials of Construction		
Item	Part Name	Material
1	Body – Inlet	316L
2	Actuator Nut	316L
3	Gasket	Viton
4	Actuator	316L
5	Body – Outlet	316L
6	Valve	316L
7	Clamp (not shown)	304
8	Centering Plate	316L

Maximum Capacity—lbs/hr 10°F Below Saturation (Kg/hr 5°C Below Saturation)

Trap	Orifice Inches	Differential PSIG (bar) 5 (0.34)	10 (0.7)	20 (1.4)	30 (2.1)	40 (2.8)	50 (3.4)	60 (4.2)	70 (4.9)	80 (5.6)	90 (6.2)	100 (6.9)
CDS 202	5/32	291 (132)	411 (186)	581 (264)	719 (326)	831 (377)	919 (417)	1000 (454)	1075 (488)	1130 (513)	1174 (533)	1207 (547)
CDS 203	1/4	550 (249)	825 (374)	1210 (549)	1495 (678)	1750 (794)	1975 (896)	2175 (987)	2350 (1066)	2525 (1145)	2650 (1202)	2825 (1281)
CDS 204*	5/16	861 (391)	1217 (552)	1722 (781)	2150 (975)	2475 (1123)	2722 (1235)	2940 (1334)	3125 (1417)	3290 (1492)	3450 (1565)	3575 (1622)

For Kg/Hr Multiply by .454

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