

All 316L Stainless Steel
Pressures to 300 psig

Series FDA 900/S/SB THERMOSTATIC CLEAN STEAM TRAPS

Applications

The Watson McDaniel FDA 900 Thermostatic Clean Steam Traps are full open during start-up, giving excellent venting and condensate removal characteristics. Typical applications are:

- Sterilizers/Autoclaves
- Fermenters
- Bioreactors
- SIP/CIP Systems
- Steam Barriers
- Process Piping Equipment

Features

- Discharges condensate close to steam temperature- minimal sub-cooling
- Repairable In-line
- Fast Start-Up – full orifice open on start-up
- Simple Design – low maintenance
- Temperature Sensitive Trap
- Water Hammer-Resistant - due to all welded stainless steel element
- Thermal element is only moving part
- All Stainless Steel 316L construction
- Available with optional strainer & blowdown

How It Works

During start-up, the element is fully open to discharge all air, non-condensable gases, and condensate. The heat of the entering steam causes the element to expand, closing the valve. Condensate then accumulates in the body, cooling the element, causing a reduced pressure internally. The line pressure will then compress the element to open the valve and discharge condensate. The element self-adjusts to load conditions from a minimum opening on light loads to full opening at maximum load.



CLEAN STEAM
PRODUCTS

Watson McDaniel reserves the right to change the designs and/or materials of its products without notice



WATSON McDANIEL COMPANY

975 Madison Ave. Valley Forge Corporate Center Norristown, PA 19403
www.watsonmcdaniel.com 610 666-5711 Fax 610 666-0404

Manufacturers of:

**PRESSURE & TEMPERATURE REGULATORS - RELIEF VALVES - STEAM TRAPS - CLEAN STEAM PRODUCTS
LIQUID DRAINERS - PRESSURE PUMPS - EJECTORS - SPECIALTY PRODUCTS**



ASME Sect VIII Div I
ST-520

(1/01)

Series FDA 900/S/SB Specifications

Pressure/Temperature Rating

Maximum Allowable Pressure (PMA)	975 psig
Maximum Allowable Temperature (TMA).....	750°F
Maximum Operating Temperature.....	Saturated Steam Temperature
Maximum Operating Pressure (PMO)	300 psig

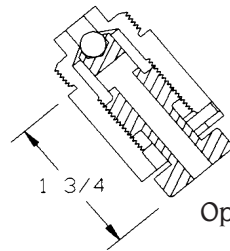
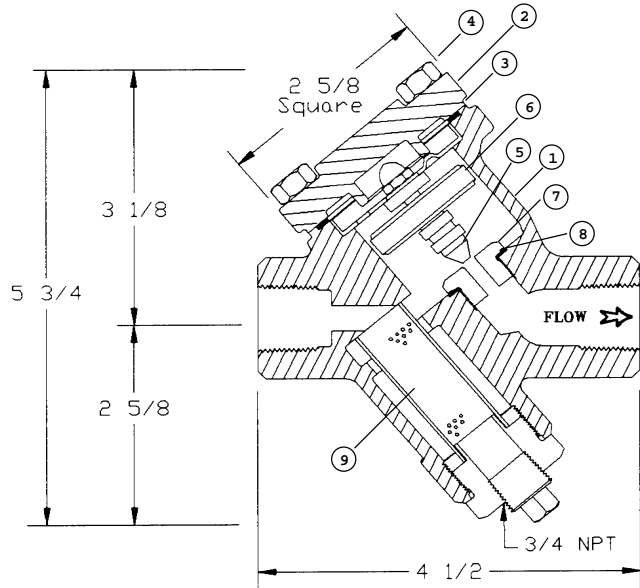
Components & Materials

Body ①	Stainless Steel, AISI 316L
Cover ②	Stainless Steel, AISI 316L
* Cover Gasket ③	Stainless Steel, AISI 316
Cover Bolts (4) ④	Stainless Steel
* Thermal Assembly	
Valve ⑤	Hardened Stainless Steel AISI 416
Thermal Element ⑥	Stainless Steel
* Seat ⑦	Hardened Stainless Steel AISI 416
* Seat Gasket ⑧	Stainless Steel, AISI 316
Screen ⑨046" Perforated Hardened SS, AISI 316L
Blowdown Valve	Stainless Steel AISI 303

*Denotes RECOMMENDED SPARE PARTS KIT

Sizes & Weights

Model No.	Size	Weight
FDA 900	1/2" x 3/4"	4.0
FDA 900S	1/2" x 3/4"	4.1
FDA 900SB	1/2" x 3/4"	4.3



Optional Blowdown Valve

Maximum Condensate Capacity (lbs/hr)

Trap No.	Orifice Size	Steam Inlet Pressure (psig)									
		5	10	20	50	100	125	150	200	250	300
FDA 900	5/16"	860	1210	1725	2725	3575	3850	4095	4505	4850	5155
FDA 900S											
FDA 900SB											

NOTE: Convert to kg/hour, multiply values by 0.454

Typical Installation

