STEAM TRAPS

WD900S

Thermodynamic Steam Trap

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Model	WD900S/WD900LS
Sizes	1/2", 3/4", 1"
Connections	NPT, SW, 600# FLG
Body Material	Low Carbon Chrome-Moly
Options	Insulation Cap
PMO Max. Operating Pressure	900 PSIG
TMO Max. Operating Temperature	842°F
PMA Max. Allowable Pressure	1500 PSIG @ 100°F
TMA Max. Allowable Temperature	842°F @ 981 PSIG



TYPICAL APPLICATIONS

DRIP: The **WD900S/WD900LS** thermodynamic steam trap is primarily used as a drip trap on high pressure steam mains and steam supply lines. Ideal for outdoor applications that are subject to freezing and for superheated steam conditions.

HOW IT WORKS

The thermodynamic trap has cyclic on-off operation with a disc that is pushed open by incoming condensate and closes tightly when steam tries to escape.

FEATURES

- "Quick-Change" seat and disc for easy in-line repair
- High pressure applications up to 900 PSIG
- Integral strainer to protect trap from contamination
- Hardened stainless steel seat and disc for extended service life even at extremely high pressures
- Single trap model will operate over the entire pressure range (20-900 PSIG)
- Suitable for superheated steam
- Freezeproof when trap is piped in a vertical orientation for complete drainage of condensate
- Trap will function in any orientation (horizontal preferred)

SAMPLE SPECIFICATION

The steam trap shall be a thermodynamic style with body material in chrome-moly alloy steel. Available in size 1/2" and 3/4" Class 600 socket weld ends or flanges. Also available in ANSI 300 FNPT. 1" Unit shall have hardened stainless steel seat and disc with a removable stainless steel strainer.

INSTALLATION

Trap can be installed in any position; however, horizontal is preferred. Installation should include isolation valves.

MAINTENANCE

The complete replacement of seat and disc can be performed while the steam trap remains in line. The strainer should be periodically cleaned to eliminate dirt, which is the most common cause of premature failure. For full maintenance details see Installation and Maintenance Manual.

OPTIONS

Customized Flanged Connections:

Specify size, face-to-face dimensions and metallurgy required for application.

WD900LS

The **WD900LS** is a low capacity version of the standard **WD900S** and recommended for working pressures of 120 PSIG and above.

HOW TO SIZE/ORDER

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

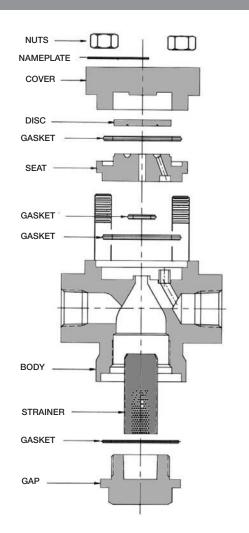
Application: 220 lbs/hr at 650 PSIG working inlet pressure Size/Model: **WD900LS**, specify pipe size and connections

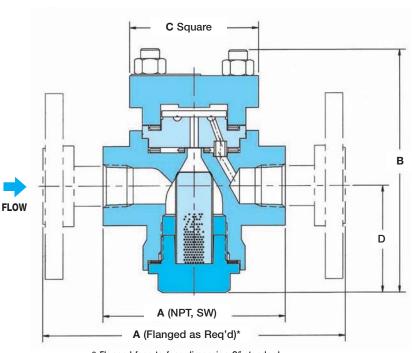


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* Flanged face-to-face dimension 9" standard. For custom sizes consult factory (9" minimum).

DIMENSIONS & WEIGHTS - inches/pounds								
Size/Model	Connection	Α	В	С	D	Weight (lbs)		
1/2" WD900S/WD900LS	NPT, SW	3.6	4.8	2.6	2.1	4.5		
1/2" WD900S/WD900LS	*600# FLG	9.0	4.8	2.6	2.1	9.0		
3/4" WD900S/WD900LS	NPT, SW	3.6	4.8	2.6	2.1	4.5		
3/4" WD900S/WD900LS	*600# FLG	9.0	4.8	2.6	2.1	11.0		
1" WD900S/WD900LS	NPT, SW	6.5	4.8	2.6	2.1	4.5		
1" WD900S/WD900LS	*600# FLG	9.0	4.8	2.6	2.1	11.0		

MATERIALS						
Body	Alloy Steel, GR WC9					
Seat	Stainless Steel, AISI 420					
Cover	Alloy Steel, GR WC9					
Strainer Cap	Alloy Steel, GR WC9					
Strainer	Stainless Steel, AISI 300					
Disc	Stainless Steel, AISI 420					
Gasket	Stainless Steel, AISI 304					
Studs	SA-193, GR B7					
Nuts	SA-194, GR 2H					

CAPACITIES - Condensate (lbs/hr)												
	Steam Inlet Pressure (PSIG)											
Model	20	50	100	150	200	300	400	500	600	700	800	900
WD900S	243	411	555	641	700	781	835	874	905	930	951	968
WD900LS				181	210	253	290	325	360	381	405	429

Notes: WD900S:

- 1) Mnimum recommended working pressure: 20 PSIG.
- 2) Maximum back pressure not to exceed 80% of inlet pressure (measured in absolute pressure) or trap may not close.

WD900LS:

- 1) Minimum recommended working pressure: 120 PSIG.
- 2) Maximum back pressure not to exceed 50% of inlet pressure (measured in absolute pressure) or trap may not close.

