

## STEAM TRAPS

**WD600S**

## Thermodynamic Steam Trap

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Model	<b>WD600S, WD600LS</b>
Sizes	<b>1/2", 3/4", 1"</b>
Connections	<b>NPT</b>
Body Material	<b>Stainless Steel 420F</b>
Options	<b>Blowdown Valve, Insulation Cap</b>
PMO Max. Operating Pressure	<b>600 PSIG</b>
TMO Max. Operating Temperature	<b>750°F</b>
PMA Max. Allowable Pressure	<b>915 PSIG up to 250°F</b>
TMA Max. Allowable Temperature	<b>610°F @ 750 PSIG</b>



**WD600S  
Strainer**



**WD600SB  
Strainer & Blowdown Valve**

## TYPICAL APPLICATIONS

**DRIP, TRACER:** The **WD600S** thermodynamic steam trap is commonly used as a drip trap on steam mains and steam supply lines. Supplied with integral strainer and optional blowdown valve to protect the trap from contamination. These traps can be used on tracing applications; however, thermostatic traps are normally recommended for this service. 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

- Integral strainer with optional blowdown valve to protect trap from contamination
- 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 (Not recommended for use below 10 PSI)
- Suitable for superheated steam
- Freezeproof 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 all stainless steel thermodynamic type with hardened integral seat and disc with integral strainer and blowdown valve.

## INSTALLATION

Trap can be installed in any position; however, horizontal is preferred. Installation should include isolation valves. Do not weld or damage can occur to the seat area.

## MAINTENANCE

If trap fails, close isolation valves and remove cap. Clean disc and seating surfaces and replace cap and disc with groove side toward seat. NOTE: Do not over tighten cap. For full maintenance details see Installation and Maintenance Manual.

## OPTIONS

An insulation cap is available to reduce cycle rates and steam loss in rain, snow, or cold environments. Blowdown valve, used for flushing dirt and scale from strainer.

**SB** = Strainer and Blowdown Valve

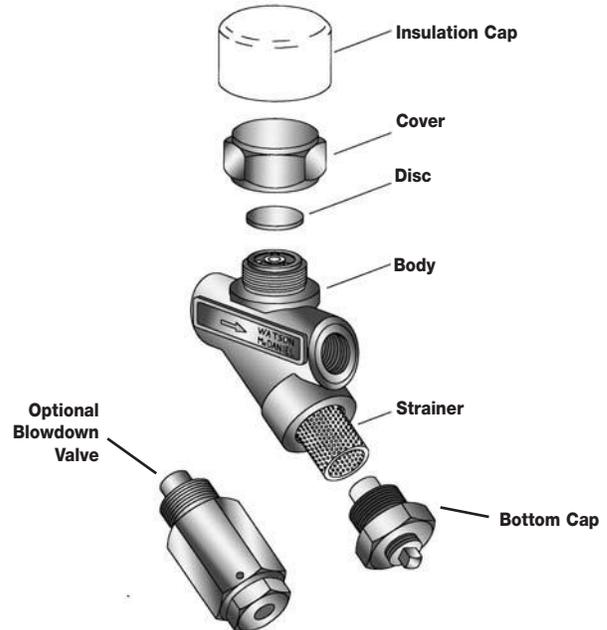
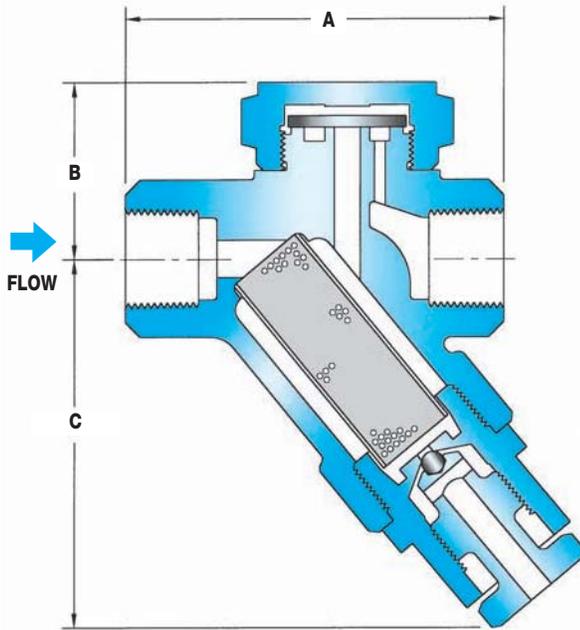
**L** = Low Capacity

## WD600LS

**WD600LS** is a low capacity version of the standard **WD600S** model. **3/4" WD600LS** has the same capacity as the **1/2" WD600S**.

## WD600S

Thermodynamic Steam Trap



### DIMENSIONS & WEIGHTS – inches/pounds

Size/Model	Connection	A	B	C	Weight (lbs)
<b>Series WD600S (Strainer)</b>					
1/2" WD600S	NPT	3.156	1.5	2.531	2
1/2" WD600LS	NPT	3.156	1.4375	2.531	1.5
3/4" WD600S	NPT	3.5625	1.625	2.531	2.5
3/4" WD600LS	NPT	3.5625	1.5625	2.531	2.4
1" WD600LS	NPT	3.75	1.4375	2.531	2.5
<b>Series WD600SB (Strainer &amp; Blowdown Valve)</b>					
1/2" WD600SB	NPT	3.156	1.5	3.5	2.3
1/2" WD600LSB	NPT	3.156	1.4375	3.5	2.0
3/4" WD600SB	NPT	3.5625	1.625	3.5	2.8
3/4" WD600LSB	NPT	3.5625	1.5625	3.5	2.7
1" WD600LSB	NPT	3.725	1.4375	3.5	2.7

### MATERIALS

Body	Stainless Steel, AISI 420F
Disc	Stainless Steel, AISI 420
Cover	Stainless Steel, AISI 416
Insulation Cap	Stainless Steel, AISI 304
Strainer Screen	Stainless Steel, AISI 304
Blowdown Valve	Stainless Steel, AISI 303

### HOW TO SIZE/ORDER

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

Application: 650 lbs/hr at 30 PSIG working inlet pressure

Size/Model: 3/4" **WD600S**

### CAPACITIES – Condensate (lbs/hr)

Size/Model	Steam Inlet Pressure (PSIG)																				
	3.5	5	10	15	20	25	30	40	50	75	100	150	200	250	300	350	400	450	500	550	600
1/2" WD600LS	180	185	190	195	200	215	220	230	250	310	375	500	620	710	800	825	900	1070	1120	1185	1290
1" WD600LS	180	185	190	195	200	215	220	230	250	310	375	500	620	710	800	825	900	1070	1120	1185	1290
1/2" WD600S	300	315	350	380	415	440	470	515	580	710	825	1020	1165	1300	1440	1565	1670	1775	1880	1960	2060
3/4" WD600LS	300	315	350	380	415	440	470	515	580	710	825	1020	1165	1300	1440	1565	1670	1775	1880	1960	2060
3/4" WD600S	415	430	475	520	565	610	650	720	825	1020	1185	1480	1710	1950	2110	2265	2490	2625	2780	2985	3140

Note: Maximum back pressure not to exceed 80% of inlet pressure (measured in absolute pressure) or trap may not close.

Note: For optimum performance, recommended for operating pressure above 10 PSIG.