

STEAM TRAPS

WD900S

Thermodynamic Steam Trap

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Model	WD900S
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** 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 disk that is pushed open by incoming condensate and closes tightly when steam tries to escape.

FEATURES

- 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)
- Unaffected by 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. 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 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.

Trap includes strainer. Blowdown option is NOT available.

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

HOW TO ORDER

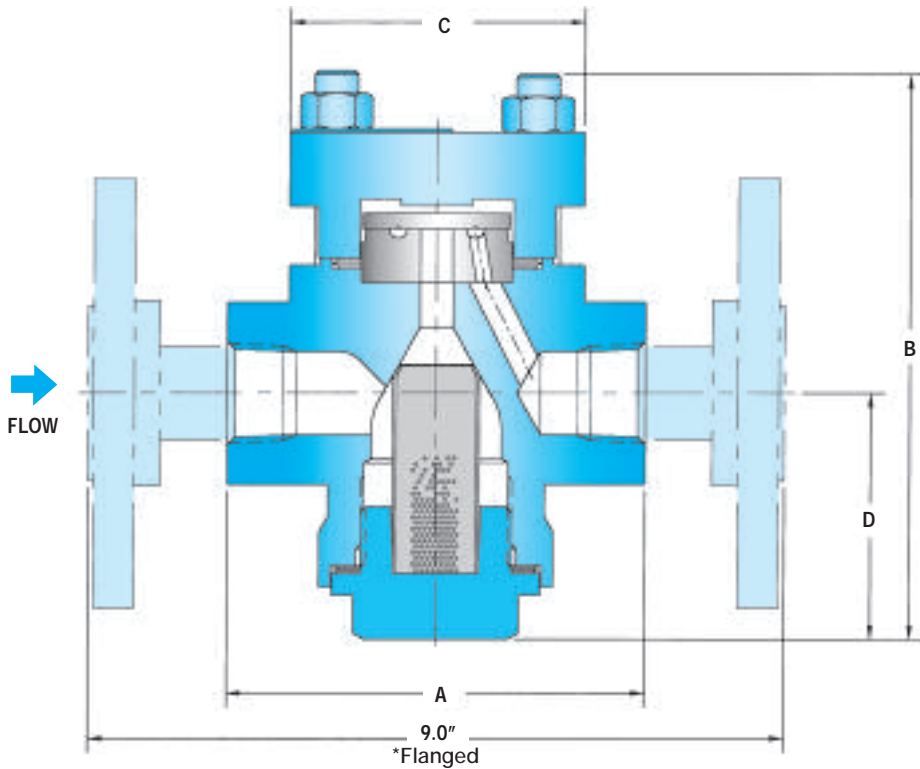
Specify the pipe size and type of connections required.

Example:

3/4" WD900S 600# FLG

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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	A	B	C	D	Weight (lbs)
1/2" WD900S	NPT, SW	3.6	4.8	2.6	2.1	4.5
1/2" WD900S	*600# FLG	9.0	4.8	2.6	2.1	9.0
3/4" WD900S	NPT, SW	3.6	4.8	2.6	2.1	4.5
3/4" WD900S	*600# FLG	9.0	4.8	2.6	2.1	11.0
1" WD900S	NPT, SW	6.5	4.8	2.6	2.1	4.5
1" WD900S	*600# FLG	9.0	4.8	2.6	2.1	11.0

CAPACITIES – Condensate (lbs/hr)												
Size	Pressure (PSIG)											
	20	50	100	150	200	300	400	500	600	700	800	900
1/2", 3/4", 1"	243	411	555	641	700	781	835	874	905	930	951	968

Note: Maximum back pressure not to exceed 80% of inlet pressure.