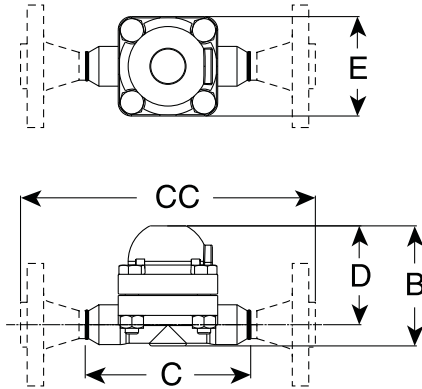


# SH-900 Bimetallic Superheat Steam Trap

**Stainless Steel**

For Pressures to 62 bar...Capacities to 4 990 kg/h



**Model SH-900**



Steam Trapping and Steam Tracing Equipment

## Description

SH Series superheat steam traps operate by the effect that rising temperature has on the thermostatic bimetallic elements.

At start-up the valve is wide open, which allows a large volume of non-condensables and cold condensate to be removed from the system. When the system reaches steam temperature, the elements become sufficiently hot to pull on the trap's valve stem, closing the valve.

The valve remains closed until the bimetallic elements cool, thus allowing the valve to crack open, vent the condensate and non-condensables, and then close again when steam temperature is reached.

The SH Series superheat steam traps adjust automatically to changing conditions. Hot elements in the valve generate forces to offset rises in pressure.

## Specification

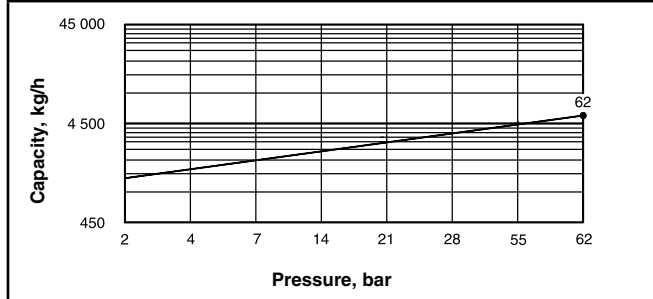
Bimetallic style steam traps type SH-900 in stainless steel with integral stainless steel strainer, inline repairable. The mechanism shall consist of a stacked nickel-chrome bimetal operator with titanium valve and seat. The steam trap shall be capable of operation on low-load applications throughout its pressure/temperature range. Maximum allowable back pressure 99% of inlet pressure.

## How to Order

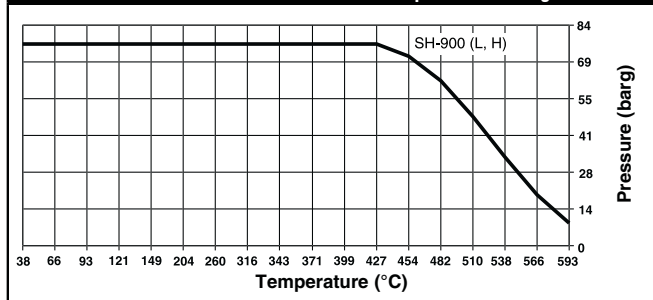
Specify:

- **SH-900 is available in two versions: low pressure from 14 - 44 barg (SH-900L) and high pressure from 41 - 62 barg (SH-900H)**
- Size and type of pipe connection
- Maximum working pressure that will be encountered
- Maximum condensate load

**Table ST-173-1. Model SH-900 Cold Water Capacity**



**Table ST-173-2. Model SH-900 Pressure/Temperature Rating**



## Maximum operating conditions

Maximum allowable pressure (vessel design)†: 62 bar @ 482°C  
 Maximum operating pressure: 62 bar  
 Maximum back pressure: 99% of inlet pressure  
 Suggested minimum operating pressure: 14 bar

**Table ST-173-3. SH Series**

Model	SH-900*
Pipe Connections	mm 15 – 20 – 25
"B" Height	115
"C" Face-to-Face (screwed & SW)	158
"CC" Face-to-Face (flanged PN64*)	233 – 240 – 278
"D" $\varnothing$ to Top	95
"E" Width	95
Weight kg (screwed & SW)	4,4

\* Standard flanges are in carbon steel, stainless steel flanges are optional. Other flange sizes, ratings and face-to-face dimensions are available on request. All sizes comply with the article 3.3 of the PED (97/23/EC).

† May be derated depending on flange rating and type.

**Table ST-173-4. Model SH-900**

Connections	15 – 20: Screwed NPT, BSPT, socketweld, flanged, buttweld	25: Flanged, buttweld
<b>Material</b>		
Body and Cap	ASTM A351 Gr. CF8M	
Valve	Titanium	
Seat	Titanium	
Bimetallic Elements	Nickel-chrome and stainless steel	
Strainer	Stain Steel Screen	

**All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.**