



SH Series

Bimetallic Superheat
Steam Traps



Armstrong

Armstrong SH Series Superheat Traps

Bimetallic Steam Traps for Superheat Conditions

Armstrong's SH Series Bimetallic Steam Traps for superheat or low load conditions, are the ideal traps for applications where other trap styles are not suitable for long life.

Advantages:

- Compact
- Lightweight
- High Temperature Capabilities
- High Pressure Capabilities
- Long Service Life on Superheat
- Easy In-line Repairability
- Fail Open Design
- Resists Water Hammer
- Multiple Pipe Sizes & Connections Available
- Integral Strainer
- Large Start-Up Capacity
- Quiet Discharge
- Forgiving of Piping Errors
- Corrosion Resistant Stainless Steel (Model SH-900)

The Armstrong SH Series Bimetallic Traps also have the ability to handle the large start up loads associated with superheat applications. The unique bimetallic element allows for tight shut off before superheat reaches the trap thus preventing steam loss. The SH Series utilizes a titanium valve and seat to ensure extremely long service life in the harsh environment of superheated steam systems.

Specification

The steam trap shall be an Armstrong bimetallic style, Model The trap shall be investment cast carbon steel (Model SH-600) or investment cast stainless steel (Model SH-900) 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 and superheat applications throughout its pressure/temperature range.

Maximum Operating Conditions

Maximum allowable pressure (vessel design)

Model SH-600: 600 psig @ 750°F (41 bar @ 399°C)

Model SH-900: 900 psig @ 900°F (62 bar @ 482°C)

Maximum operating pressure

Model SH-600: 600 psig (41 bar)

Model SH-900: 900 psig (62 bar)

Suggested Minimum operating pressure

Model SH-600: 200 psig (14 bar)

Model SH-900: 200 psig (14 bar)

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Connections

Model SH-600: Screwed NPT, BSPT, Socketweld and Flanged
 Model SH-900: Socketweld, Buttweld and Flanged

Materials

Model SH-600

Body and cap: ASTM A216 WCB
 Valve and seat: Titanium
 Elements: Ni-Cr and stainless steel
 Strainer: Stainless Steel

Model SH-900

Body and cap: ASTM A351 CF8M
 Valve and seat: Titanium
 Elements: Ni-Cr and stainless steel
 Strainer: Stainless Steel

How to Order

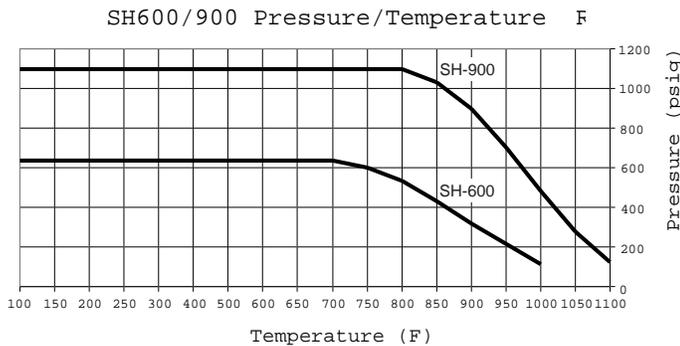
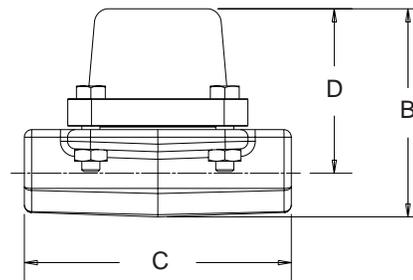
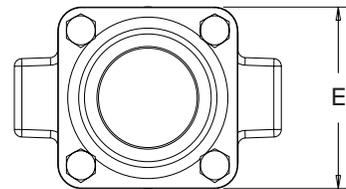
Specify:

- Model number
- Size and type of pipe connection. When flanges are required, specify type of flange in detail.

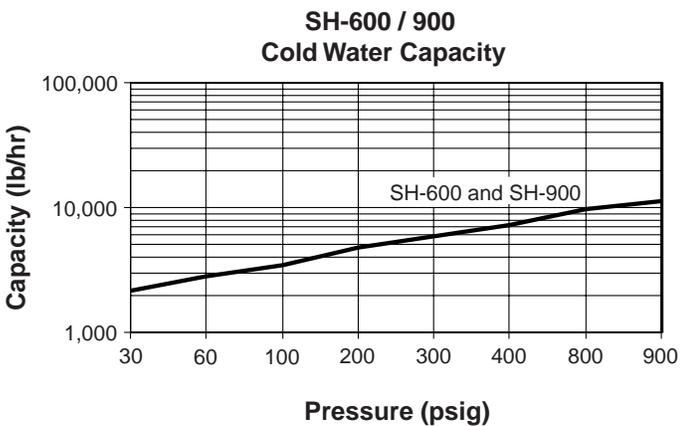
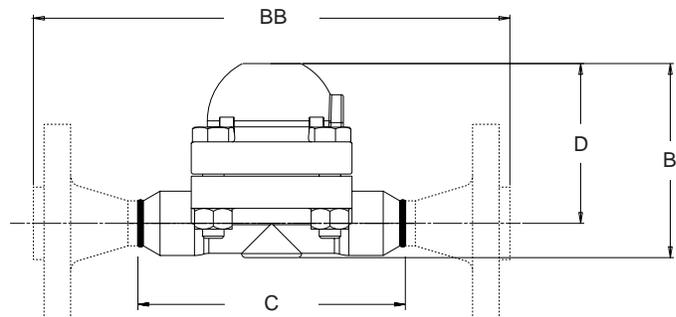
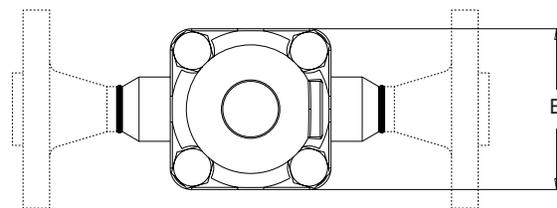
SH Series				
Model	SH-600		SH-900	
Pipe Connections	in	mm	in	mm
"B" Height	3-1/2	91	4-1/2	115
"C" Face to Face	4-5/8	117	6-1/4	158
"D" Centerline to Top	2-13/16	72	3-3/4	95
"E" Width	3-1/8	79	3-3/4	95
* "BB"	—	—	11-1/8*	282*
Weight lb (kg)	5 (2.3)		10 (4.4)	

* "BB" Dimensions shown are for 3/4" connection, Class 600 Flanged. Consult factory for dimensions of models with other connection sizes and/or flanges.

SH-600



SH-900



Armstrong International, Inc.

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Steam Traps \ Humidifiers \ Steam Coils \ Valves \ Air Vents \ Pumping Traps \ Water Heaters

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