SH-300 Bimetallic Steam Trap

Carbon Steel

For Pressures to 22 bar...Capacities to 1 800 kg/h

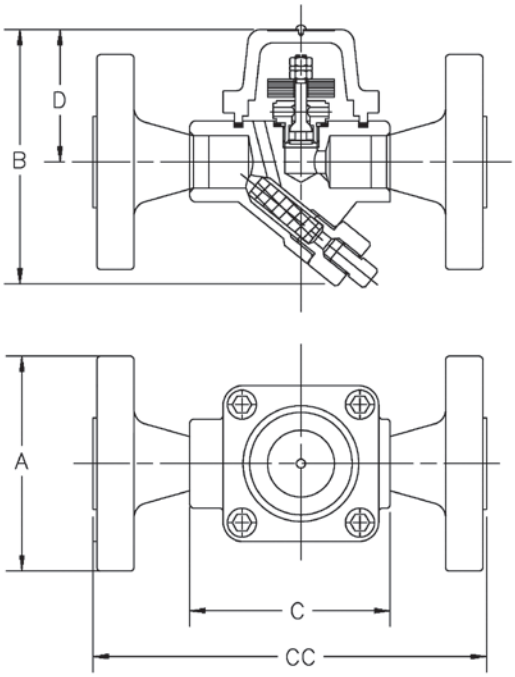


Table ST-182-2. SH-300 Traps	
Model	**SH-300**
Connections	Screwed BSPT and NPT Socketwelded Flanged EN 1092-1 or ASME B16.5***
Matériau	
Cap and Body	ASTM A105 ASTM A350-LF2
Valve	Acier au chrome 440C
Seat	Stainless steel 303
Bimetallic elements	Nickel plated

Description

The SH-300 steam trap operates on the temperature principle using two layers of bimetallic elements that have different expansion coefficients. The stem connected to these elements moves a valve into either an open or closed position. During start-up, the trap is cold so the elements are flat and the valve is wide open. This results in air and condensate being easily removed from the system.

In standard operation, the position of the valve depends on two parameters: first, the pressure, which will cause the valve to open; and second, the temperature, which will cause the elements to convex and the valve to close. When no condensate is present and set temperature is reached, the force of the elements is then high enough to completely close the valve.

The SH-300 steam trap can adjust itself to changing conditions, because if the pressure rises, the higher pressure works on the valve. At the same time, the higher temperature will work on the elements.

Table 182-1. Model SH-300 Trap (dimensions in mm)	
Model No.	**SH-300**
Pipe Connections	15 – 20 – 25**
«B» Height (screwed & SW)	115
«A» Height (flanged EN1092-1 PN40*)	95 – 105 – 115
«C» Face-to-Face (screwed & SW)	90 – 90 – N/A
«CC» Face-to-Face (flanged EN1092-1 PN40*)	150 – 150 – 160
«D» ℄ to Top	60
Weight in kg (screwed & SW)	1,9
Weight in kg (flanged PN40*)	4,3 – 4,5 – 4,7

Maximum Operating Conditions

Maximum allowable pressure (vessel design)ŧ: 40 bar @ 350°C
Maximum operating pressure: 22 bar
Maximum back pressure: 99% of inlet pressure

Specification

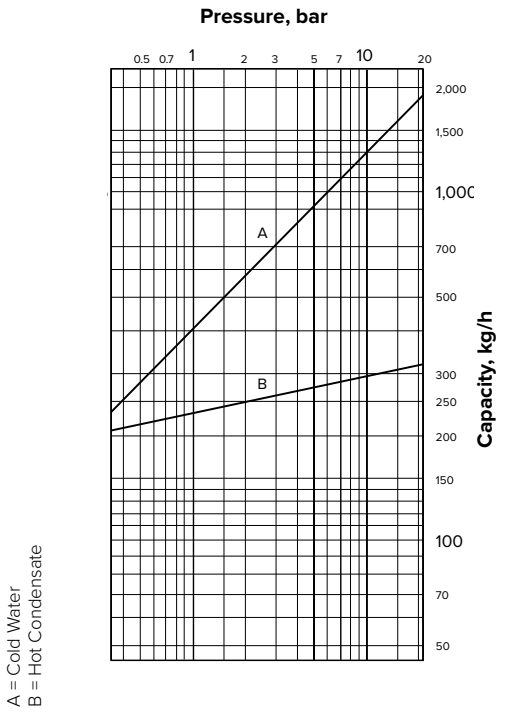
Bimetallic steam trap, type SH-300 in carbon steel. Maximum allowable back pressure 99% of inlet pressure.

How to Order

Specify:

- Model number
- Size and type of pipe connection.

Table ST-182-3. SH-300 Capacity



ŧ May be derated depending on flange rating and type. * Other flange sizes, ratings and face-to-face dimensions are available on request. ** pipe connections only available if flanged. ***Standard flanges are in carbon steel, ASTM A350 LF2 are optional.
All sizes comply with the Article 4.3 of the PED (2014/68/UE).

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