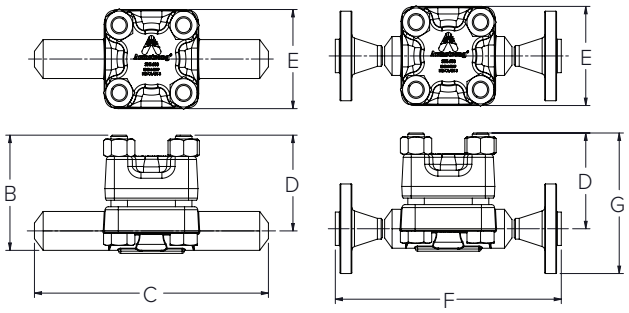
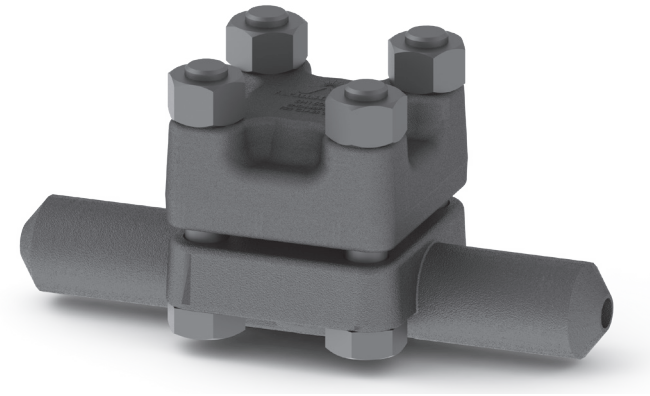
SH-1600 Bimetallic Steam Trap for Superheat Conditions

For Pressures to 120.6 barg (1 750 psig)...Cold Water Capacities to 2 950 kg/hr (6 500 lb/hr)



Model SH-1600



Description

SH Series superheat steam traps operate by the effect that rising temperature has on the 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 trap reaches steam temperature, the bimetallic elements pull the valve into the seat closing the trap. 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. The SH-1600 series utilizes titanium valves and seats to ensure extremely long service life in the harsh environment of superheated steam systems.

Specifications

Steam trap shall be a bimetallic style. The trap shall be forged chrome-moly steel with integral stainless steel strainer,in-line 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.

How to Order

- Specify model number.
- Specify maximum operating pressure.
- Specify size and type of pipe connections.
- When flanges are required specify type of flange.

Maximum operating conditions

Maximum allowable pressure
(vessel design): 120.6 barg @ 520°C
Maximum operating pressure: 120.6 barg
Suggested minimum operating pressure: 41 bar)

Table ST-185-2. Model SH-1600 Cold Water Capacity

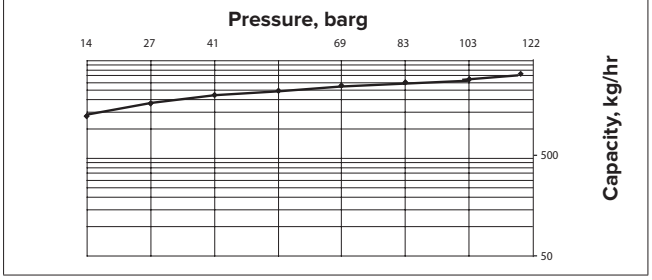


Table ST-185-2 Model SH-1600 Pressure/Temperature Rating

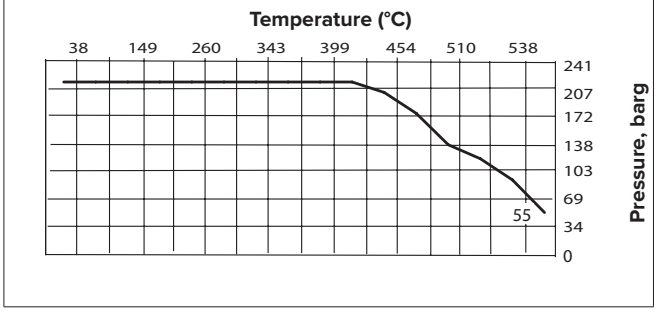


Table ST-185-3.SH-1600

Model	SH-1600	
Pipe Connections	mm	
	20	25
"B" (Height)	148	148
"C" (End-to-End) - Socket Weld / Butt Weld	315	315
"D" (Centerline to Top)	123	123
"E" (Width)	129	129
"F" (Face-to-Face) - Flanged 1500#	475	481
"G" (Height) - Flanged 1500#	188	198
Weight in kg - SW/BW	17.3	17.3
Weight in kg - Flanged 1500#	22.6	22.6

Table ST-185-4 SH-1600

Connections	Socketweld, Buttweld, Flanged EN 1092-1 or ASME B16.5
Material	
Body and Cap	ASTM A-182 F22 Class 3
Valve	Titanium
Seat	
Bimetallic Elements	Nickel-chrome and stainless steel
Screen	Stainless Steel
Bolts	ASTM A193 Gr. B16
Nuts	ASTM A194 GR. 7