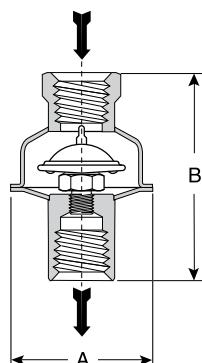




WMT Series Thermostatic Wafer Steam Traps

Stainless Steel or Carbon Steel

For Pressures to 17 bar...Cold Water Start-up Capacities to 450 kg/h



Model WMT-1 Trap

Description

The thermostatic wafer steam trap is sized precisely to handle the extremely low condensate load found in most instrument steam tracer lines. The WMT thermostatic wafer traps are designed to last longer than other oversized, all-purpose thermostatic and thermodynamic steam traps.

A water seal prevents loss of steam through the orifice of the WMT Series.

Adjusts automatically to flow rates, including large start-up loads, at all pressures within its range.

Specification

Thermostatic wafer steam trap, type WMT-1 in stainless steel. Maximum allowable back pressure 99% of inlet pressure.

How to Order

- Specify model number
- Specify size and type of pipe connection. When flanges are required, specify type of flange in detail

Table ST-168-2. WMT-1 Trap (dimensions in mm)

Model No.	WMT-1	
Pipe Connections	1/4" - 3/8"	1/2"
"A" Diameter	57	57
"B" Face-to-Face (screwed & SW)	84	84
Weight in kg (screwed & SW)	0,1	0,1

Table ST-168-3. WMT-1 Traps

Model	WMT-1
Connections	Screwed BSPT and NPT
Material	
Cap and Body	ASTM A240 to 304L
Capsule	All stainless steel – 304
Maximum Operating Conditions	
Maximum allowable pressure (vessel design)†	17 bar @ 204°C
Maximum operating pressure	17 bar

Maximum back pressure: 99% of inlet pressure

Table ST-168-1. WMT Series Capacity

Differential Pressure*	Cold Water Start-Up 21°C	Hot Water Start-Up 100°C	Operating Condensate 10°C Below Saturation
bar	kg/h	kg/h	kg/h**
0,35	54	45	4,5
0,7	68	77	5,9
1,4	145	113	8,2
2,0	177	136	9,1
3,0	191	159	10,9
3,5	222	181	11,8
5,0	259	218	13,6
7,0	295	263	15,9
10,5	318	318	18,1
14,0	408	363	20,9
17,0	454	431	22,7

* Capacities based on differential pressure with no back pressure.

** Capacities will vary with the degree of subcooling. When greater capacities are required, the trap will automatically adjust to the load, up to the maximum (cold water) capacity shown, by increasing the amount of subcooling.

† May be derated depending on flange rating and type.

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

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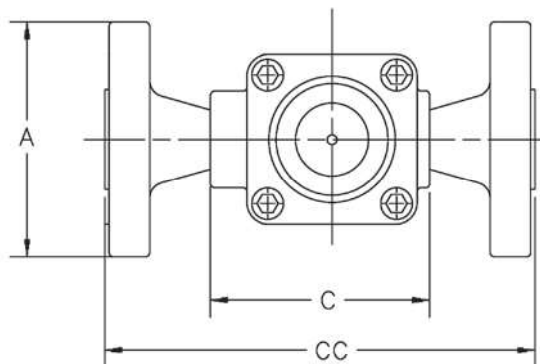
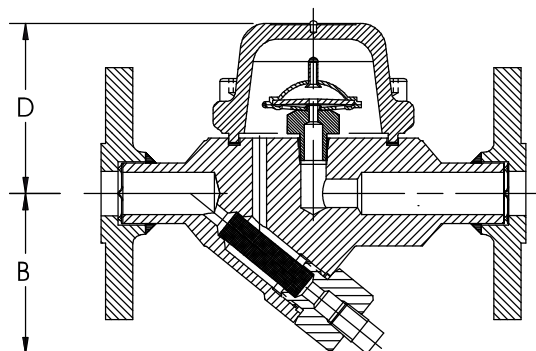
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TC-300 Series Thermostatic Capsule Steam Trap

Carbon Steel

For Pressures to 17 bar ... Cold Water Start-up Capacities to 454 Kg/h



Steam Trapping and
Steam Tracing Equipment

Description

The TC-300 is sized precisely to handle the extremely low condensate load found in most instrument steam tracer lines. The TC-300 traps are designed to last longer than other oversized, all-purpose thermostatic and thermodynamic steam traps.

This steam trap adjusts automatically to flow rates, including large start-up loads, at all pressures within its range.

How to Order

Specify: Model Number, Size and type of pipe connection. When flanges are required, specify type of flange in detail.

Table ST-169-1. TC-300 Series Capacity

Differential Pressure*	Cold Water Start-Up 21°C	Hot Water Start-Up 100°C	Operating Condensate 10°C Below Saturation
bar	kg/h	kg/h	kg/h**
0,35	54	45	4,5
0,7	68	77	5,9
1,4	145	113	8,2
2,0	177	136	9,1
3,0	191	159	10,9
3,5	222	181	11,8
5,0	259	218	13,6
7,0	295	263	15,9
10,5	318	318	18,1
14,0	408	363	20,9
17,0	454	431	22,7

* Capacities based on differential pressure with no back pressure.

** Capacities will vary with the degree of subcooling. When greater capacities are required, the trap will automatically adjust to the load, up to the maximum (cold water) capacity shown, by increasing the amount of subcooling.

Table ST-169-2. TC-300 Trap (dimensions in mm)

Pipe Connections	15 – 20 – 25
"B" Height (Screwed & SW)	117
"A" Height (flanged PN40*)	117
"C" Face-to-Face (Screwed & SW)	90 – 90 – N/A
"CC" Face-to-Face (Flanged PN40*)	150 – 150 – 160
"D" CL to Top	60
Weight in kg (Screwed & SW)	1,9
Weight in kg (Flanged PN40)	4,3 – 4,5 – 4,7

Table ST-169-3. TC-300 Traps

Model	TC-300
Connections	Screwed BSPT and NPT Socketwelded Flanged DIN and ANSI
Material	
Cap and Body	ASTM-A-105
Capsule	All Stainless Steel – 304
Maximum Operating Conditions	
Maximum allowable pressure (vessel design)†	32 bar @ 350 °C
Maximum operating pressure	17 bar @ 207 °C

† May be derated depending on flange rating and type.

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

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ST-169

WT Series Thermostatic Wafer Steam Traps

Stainless Steel or Carbon Steel

For Pressures to 41 bar...Cold Water Start-Up Capacities to 730 kg/h



Table ST-171-1. WT Series Capacity

Differential Pressure*	Cold Water Start-Up 21°C	Hot Water Start-Up 100°C	Operating Condensate 10°C Below Saturation
bar	kg/h	kg/h	kg/h**
0,35	54	45	4,5
0,7	68	77	5,9
1,4	145	113	8,2
2,0	177	136	9,1
3,0	191	159	10,9
3,5	222	181	11,8
5,0	259	218	13,6
7,0	295	263	15,9
10,5	318	318	18,1
14,0	408	363	20,9
17,0	454	431	22,7
21,0	476	465	25,4
24,0	522	544	28,6
28,0	590	567	31,8

* Capacities based on differential pressure with no back pressure.

** Capacities will vary with the degree of subcooling. When greater capacities are required, the trap will automatically adjust to the load, up to the maximum (cold water) capacity shown, by increasing the amount of subcooling.

Connectors

Besides the inverted bucket traps, the standard connectors or IS-2 connector with integral strainer can also be used on thermostatic, thermostatic wafer and controlled disc traps.



Table ST-171-2.

Model	WT-1 All Stainless Steel	WT-2000 Stainless Steel w/360° Connector	WT-3 Carbon Steel
Design	Welded		
Connections	Screwed BSPT and NPT – Socketweld – Flanged (WT-2000 only)		
Material			
Body	ASTM A240 – 304L		Carbon Steel C-1018
Cap			
Capsule wafer	Hastelloy		
Capsule body	Stainless Steel – 303		
Capsule cap			
Connector			
Standard	—	Stainless Steel – 304	—
IS-2 w/integral strainer	—	ASTM A351 Gr.CF8 w/20x20 mesh 304 SS screen	—
Maximum operating conditions			
Maximum allowable pressure (vessel design)†	28 bar @ 343°C		41 bar @ 399°C
Maximum operating pressure	28 bar		41 bar
Options WT-2000			
Blowdown Valve IS-2 Connector Only			

Maximum back pressure: 99% of inlet pressure

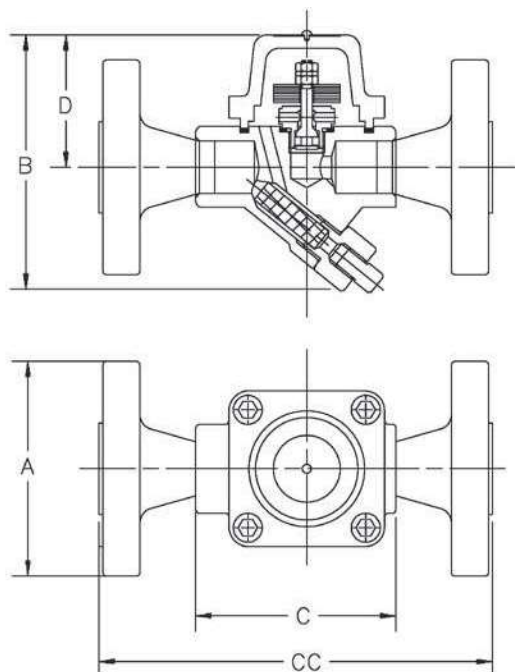
† May be derated depending on flange rating and type.

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

SH-300 Bimetallic Steam Trap

Carbon Steel

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



Connections

Screwed BSPT and NPT
Socketweld
Flanged PN40 1092-1 or ANSI (welded)

Materials

Body and cap: ASTM A105
ASTM A350-LF2
Valve: Chrome Steel - 440C
Seat: Stainless steel
Bimetallic elements: Nickel plated

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.

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.

Maximum Operating Conditions

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

Table 172-1. Model SH-300 Trap (dimensions in mm)

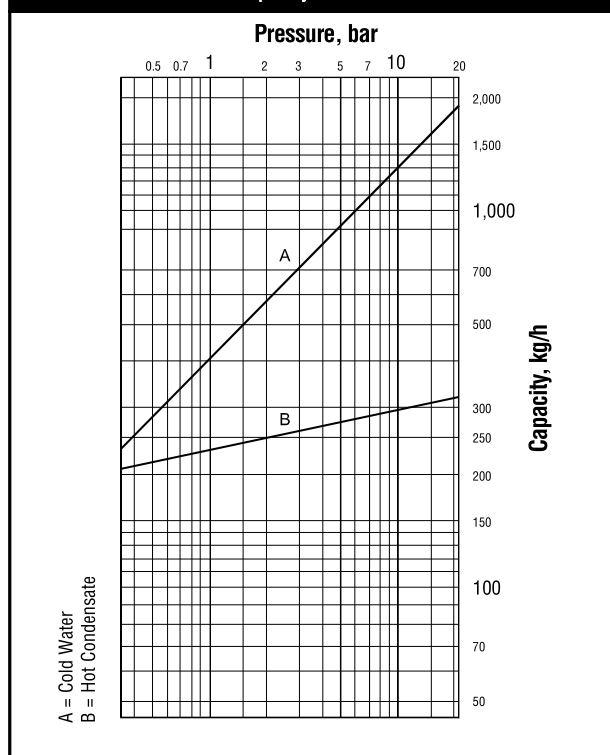
Model No.	SH-300
Pipe Connections	15 – 20 – 25
«B» Height (screwed & SW)	115
«A» Height (flanged PN40*)	115
«C» Face-to-Face (screwed & SW)	90 – 90 – N/A
«CC» Face-to-Face (flanged PN40*)	150 – 150 – 160
«D» $\varnothing$ to Top	60
Weight in kg (screwed & SW)	1,9
Weight in kg (flanged PN40*)	4,3 – 4,5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

* 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.

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

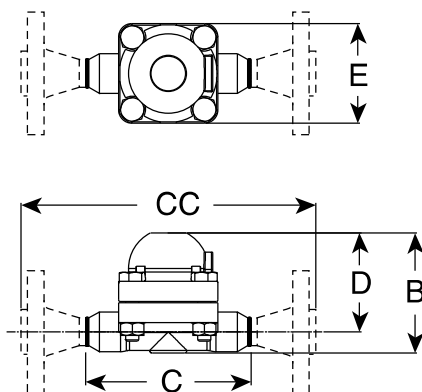
Table ST-172-2. SH-300 Capacity



SH-900 Bimetallic Superheat Steam Trap

Stainless Steel

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



Model SH-900

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-173-3. 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.

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



Steam Trapping and
Steam Tracing Equipment

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

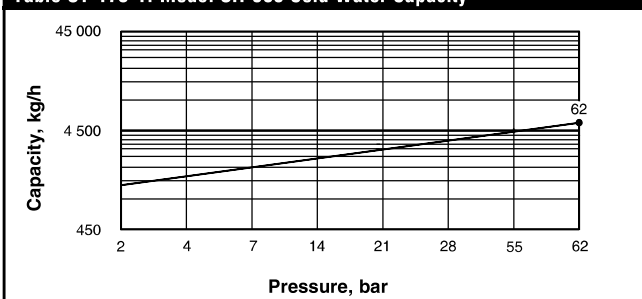
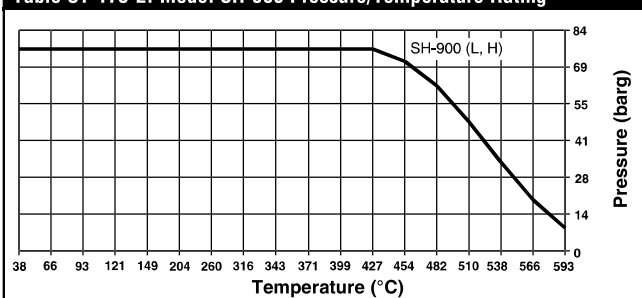


Table ST-173-2. Model SH-900 Pressure/Temperature Rating



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

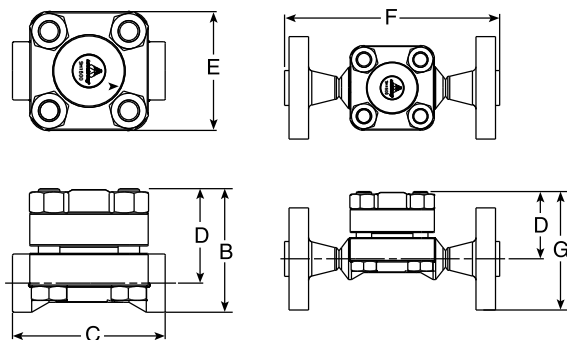
Table ST-173-4. Model SH-900

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

SH-1500 Bimetallic Superheat Steam Trap

Forged Chromemoly Steel

For Pressures to 124 bar...Capacities to 3 180 kg/h



Model SH-1500

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. The SH 1500 series utilizes titanium valves and seats to ensure extremely long service life in the harsh environment of superheated steam systems.

Specification

Bimetallic style steam traps type SH-1500 in investment cast chromemoly 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:

- Size and type of pipe connection
- Maximum working pressure that will be encountered
- Maximum condensate load

Table ST-174-3. SH Series

Model	SH-1500*	
	mm	
Pipe Connections	20	25
"B" (Height BW) in mm	129	129
"C" (Face-to-face BW - with extended nipples) in mm	157	157
"D" (Centerline to Top) in mm	98	98
"E" (Width) in mm	123	123
"F" (Face-to-face Flanged ANSI 1500#) in mm	305	311
"G" (Height Flanged ANSI 1500lbs) in mm	163	173
Weight in kg (BW)	10,4 kg	10,4 kg
Weight in kg (Flanged ANSI 1500#)	17,2 kg	18,1 kg

* 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.

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



Maximum operating conditions

Table ST-174-1. Model SH-1500 Cold Water Capacity

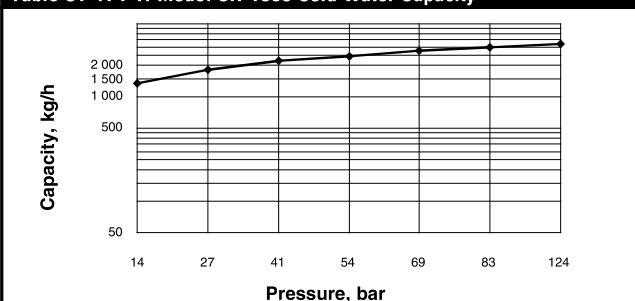
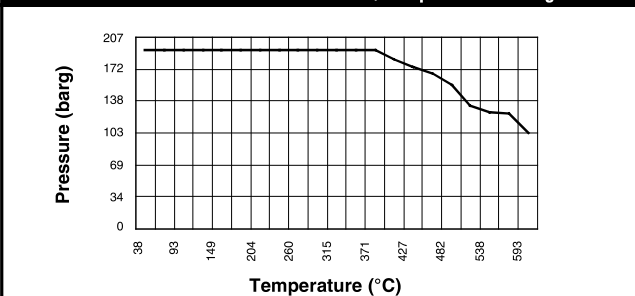


Table ST-174-2. Model SH-1500 Pressure/Temperature Rating



Maximum allowable pressure

(vessel design)†:

124 bar @ 565°C

Maximum operating pressure:

124 bar

Maximum back pressure:

99% of inlet pressure

Suggested minimum operating pressure:

41 bar

Table ST-174-4. Model SH-1500

Connections	20 – 25: Buttweld, Flanged
Material	
Body and Cap	ASTM 217 Gr. C12A
Valve	Titanium
Seat	
Bimetallic Elements	Nickel-chrome and stainless steel
Strainer	Stain Steel Screen

SH-2000 Bimetallic Steam Traps

All Stainless Steel

For pressures to 28 bar...Cold Water Capacities to 2175 kg/hr



Description

SH Series Superheat Steam Traps operate by the effect that rising temperature has on the thermostatic bimetallic elements.

The effect of rising temperature on bimetallic elements operates the Armstrong SH-2000 bimetallic steam trap. It adjusts to changing conditions because the curving of the bimetallic elements, caused by increasing temperature, compensates for increasing pressure.

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, venting the condensate and non-condensables, and then close again when steam temperature is reached.

The Armstrong SH-2000 has a sealed, stainless steel body that is lightweight, compact and highly resistant to corrosion. It is adaptable to an Armstrong 360° Universal Connector or a Trap Valve Station (TVS). This makes it easy to install and replace, as the trap can be removed while the connector remains in-line. That means savings in labor cost and ultimate flexibility—because inverted bucket, thermostatic, thermostatic wafer, disc, and float and thermostatic steam traps can all be installed on the same connector.

Maximum Operating Conditions

Maximum allowable pressure (vessel design):

28 bar @ 427°C

Maximum operating pressure: 400 psi (28 bar)

Materials

Body:	Stainless Steel
Valve & Seat Elements:	Titanium, Ni-Cr and Stainless Steel
Ring:	Stainless Steel
Cap Assembly:	Stainless Steel
Flange:	ASTM A105 Zinc plated
Retainer Ring:	Carbon Steel
Spiral Wound Gasket:	Stainless Steel
Label:	Aluminum

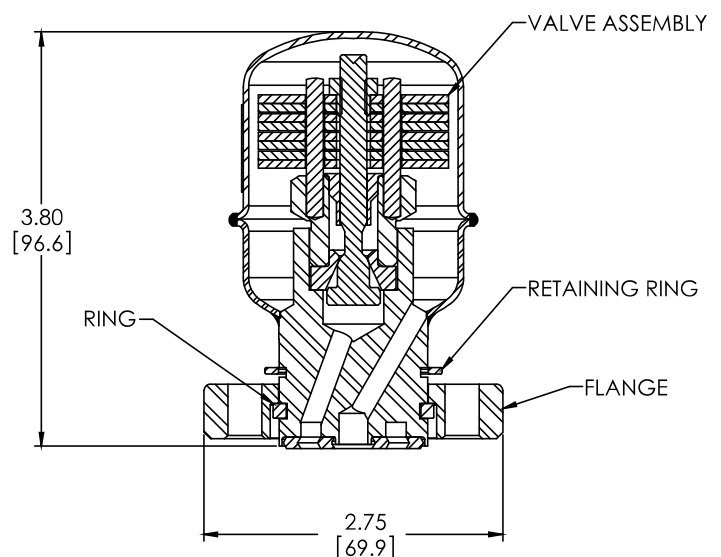
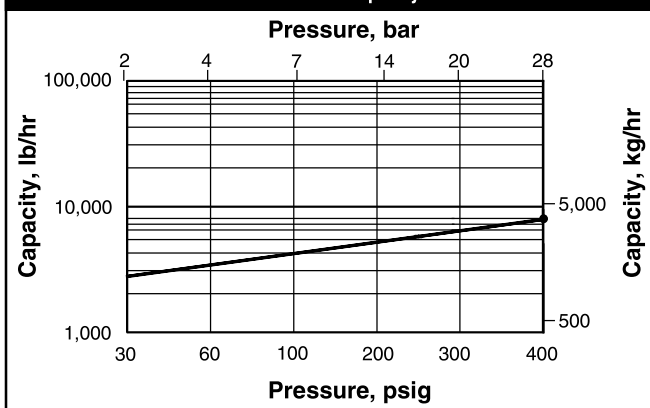


Table ST-175-1. SH-2000 Cold Water Capacity





SH-2500 Bimetallic Steam Trap

All Stainless Steel

For Pressures to 650 psig (45 bar)...Capacities to 6,000 lb/hr (2,722 kg/hr)

Description

Armstrong's SH-2500 Bimetallic Steam Trap is the ideal design for applications involving superheated steam.

During start-up, the bimetallic mechanism is fully open and allows large volumes of non-condensable gases and condensate to be removed from the system. As the system reaches saturated steam conditions, the mechanism begins to close preventing any live steam loss. The superheat during normal operating steam conditions keep the valve closed to ensure long service life.

In the event that operating conditions change and condensate forms at the steam trap inlet, the cooling effect allows the bimetallic mechanism to open and discharge any accumulation. The valve quickly closes once normal operating conditions return.

The SH-2500 consists of an investment cast, stainless steel body that is compact and highly resistant to harsh, corrosive environments. The integral mounting flange is compatible with the Armstrong IS-2, TVS-4000, std connector making for labor savings and easy steam trap replacement.



Maximum Operating Conditions

Maximum allowable pressure (vessel design):
45 bar @ 315°C

Maximum operating pressure:
45 bar @ 315°C

Materials and Weight

Body:	ASTM A351 Gr. CF8M
Valve & Seat Elements:	Titanium
	Ni-Cr
	Stainless Steel
Spiral Wound Gasket:	Stainless Steel
Bolts:	ASTM A193 B7
Weight:	2.8 lbs (1.3 kg)

Specification

Steam traps shall be a bimetallic style designed for superheated steam applications. The steam trap body shall be tamperproof, investment cast stainless steel A351 Gr. CF8M. The mechanism shall consist of a stacked nickel-chrome bimetal operator with titanium valve and seat. The gaskets shall be captured stainless steel spiral wound. The steam trap shall be compatible with the 2-bolt universal connector technology.

How to Order

Specify model number
Maximum working pressure and temperature

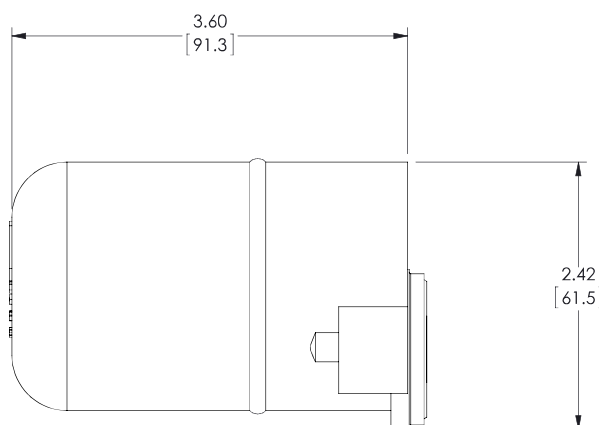
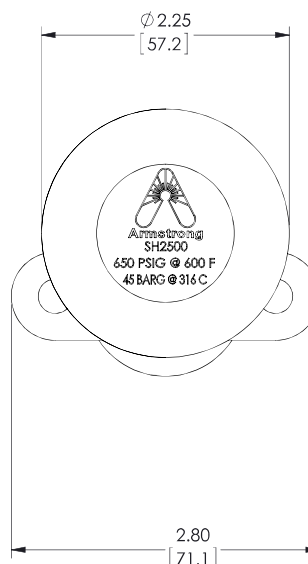
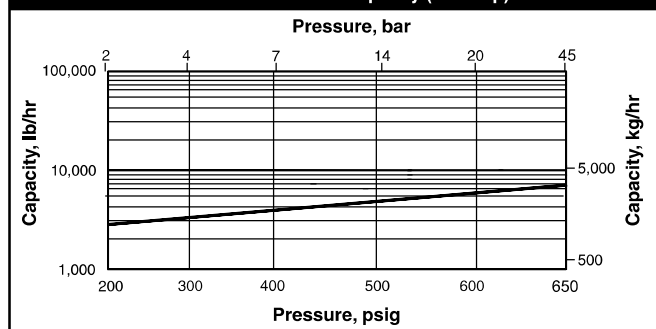


Table ST-176-1. SH-2500 Cold Water Capacity (Start Up)



Note: Cold water capacity for start-up loads only. When superheat present, there will be minimal condensate.

SH-4000 Series Bimetallic Steam Traps

All Stainless Steel

For Pressures to 86 bar ... Cold Water Start-up Capacities to 2 722 Kg/h



Armstrong's SH-4000 Bimetallic Steam Trap is the ideal design for applications involving superheated steam.

During start-up, the bimetallic mechanism is fully open and allows large volumes of non-condensable gases and condensate to be removed from the system. As the system reaches saturated steam conditions, the mechanism begins to close preventing any live steam loss. The superheat during normal operating steam conditions keep the valve closed to ensure long service life.

In the event that operating conditions change and condensate forms at the steam trap inlet, the cooling effect allows the bimetallic mechanism to open and discharge any accumulation. The valve quickly closes once normal operating conditions return.

The SH-4000 consists of an investment cast, stainless steel body that is compact and highly resistant to harsh, corrosive environments. The integral mounting flange is compatible with the Armstrong IS-4, 4-bolt, Class 900, connector making for labor savings and easy steam trap replacement.

Maximum Operating Conditions

Maximum allowable pressure (vessel design):
86 bar @ 482°C (1245 psig @ 900°F)

Maximum operating pressure:

SH-4009L	45 bar @ 482°C (650 psig @ 900°F)
SH-4009H	62 bar @ 482°C (900 psig @ 900°F)
SH-4015	86 bar @ 482°C (1245 psig @ 900°F)

Materials and Weight

Body:	ASTM A351 Gr. CF8M
Valve & Seat Elements:	Titanium
	Ni-Cr
	Stainless Steel
Spiral Wound Gasket:	Stainless Steel
Bolts:	ASTM A193 B7
Weight:	1,7 kg (3,75 lbs)

Specification

Steam traps shall be a bimetallic style designed for superheated steam applications. The steam trap body shall be tamperproof, investment cast stainless steel A351 Gr. CF8M. The mechanism shall consist of a stacked nickel-chrome bimetal operator with titanium valve and seat. The gaskets shall be captured stainless steel spiral wound. The steam trap shall be compatible with the 4-bolt universal connector technology.

How to Order

Specify model number
Maximum working pressure and temperature

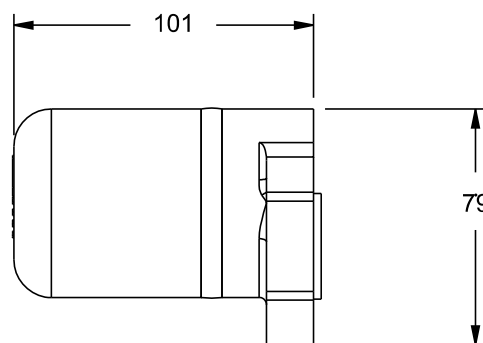
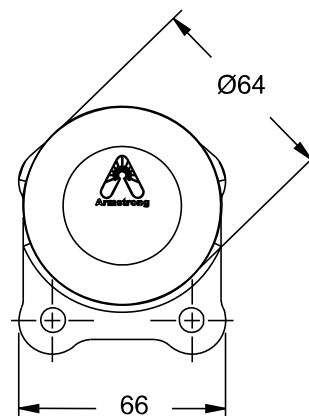
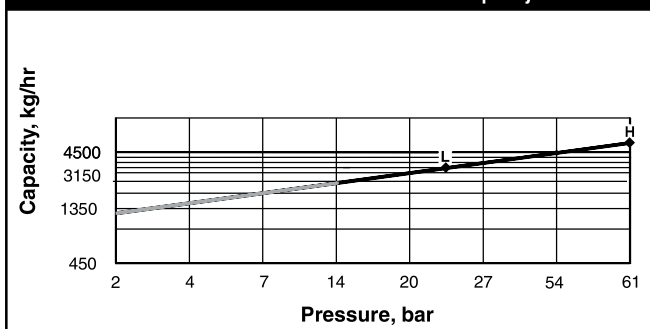
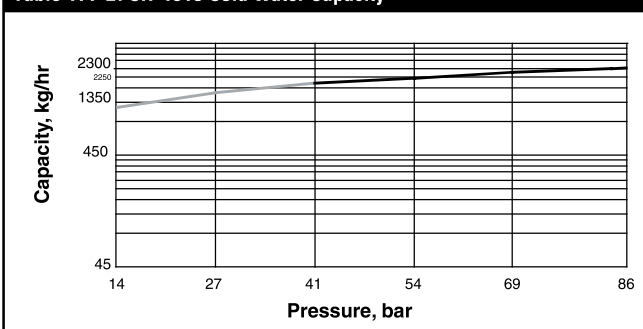


Table 177-1. SH-4009L and SH-4009H Cold Water Capacity



Note: Cold water capacity for start-up loads only. When superheat present, there will be minimal condensate. Grey curve indicates that trap can not be used in this area.

Table 177-2. SH-4015 Cold Water Capacity

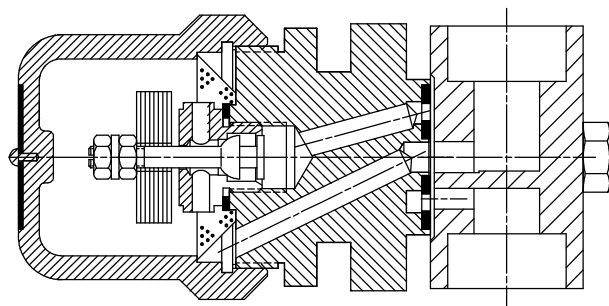


All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

AB-3000 Bimetallic Steam Trap

Stainless Steel

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



Description

Armstrong's AB-3000 Bimetallic Steam Trap operates by the effect that rising temperature has on bimetallic elements. It adjusts itself to changing conditions, as the increasing pressure on the valve is compensated by the curving of the bimetallic elements caused by the increasing temperature.

Armstrong's AB-3000 has a sealed, stainless steel body that is lightweight, compact and highly resistant to corrosion. The AB-3000 is repairable (body and cap can be unscrewed). It is piped through the Armstrong 360° Universal Connector or Trap Valve Station (TVS). This makes it easy to install and replace, as the trap can be removed while the connector remains in-line. The result is savings in labor cost and increasing in flexibility, as other trap types (Inverted Bucket, Thermostatic and Thermodynamic) can be installed on the same connector.

Maximum operating conditions

Maximum allowable pressure (vessel design)†:	28 bar @ 343°C
Maximum operating pressure:	22 bar
Maximum back pressure:	99% of inlet pressure

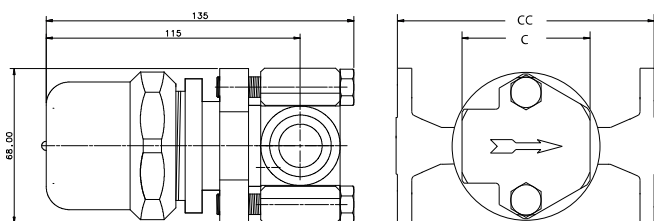
Connections

Screwed BSPT and NPT
Socketweld
Flanged DIN or ANSI (welded)

Table ST-178-1. Model AB-3000 Trap (dimensions in mm)

Pipe Connections	15 – 20 – 25
"C" Face-to-Face (screwed & SW)	60 – 60 – N/A
"CC" Face-to-Face (flanged PN40*)	150 – 150 – 160
Weight in kg (screwed & SW)	1,9
Weight in kg (flanged PN40*)	4,3 – 4,5 – 4,7

* 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.



Materials

Body:	ASTM - A240 304L
Standard connector:	Stainless steel – 304
Valve:	Chrome steel – 440F
Seat:	303 Stainless steel
Elements:	Nickel plated
Strainer:	304 Stainless steel

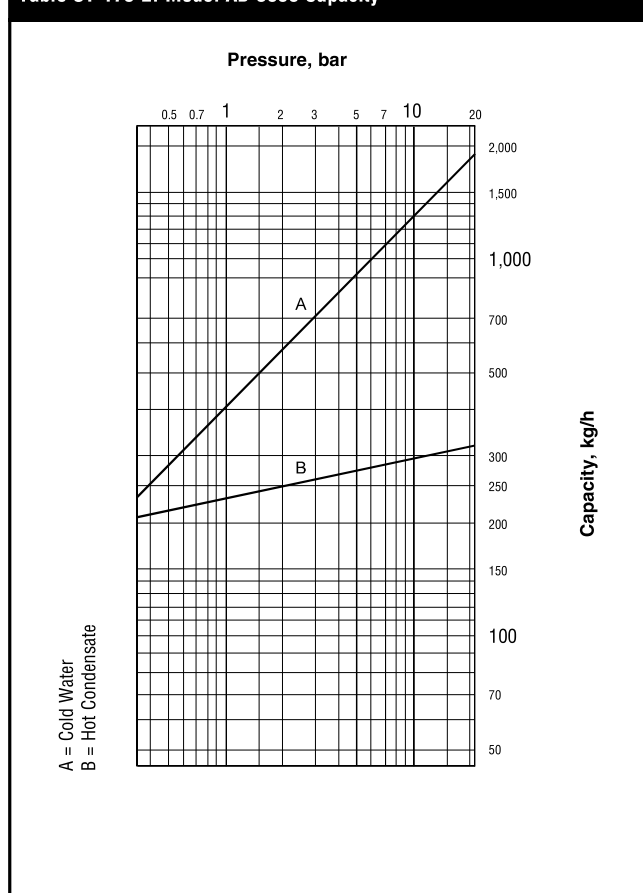
Specification

Bimetallic repairable steam trap, type AB-3000 in stainless steel, with integral strainer. Piped through 360° Universal Connector or Trap Valve Station (TVS). Maximum allowable back pressure 99% of inlet pressure.

How to order

- Specify:
- Size and type of pipe connection.
 - Maximum working pressure that will be encountered
 - Maximum condensate load

Table ST-178-2. Model AB-3000 Capacity



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

AB-600 Bimetallic Steam Trap

Carbon Steel

For Pressures to 41 bar...Capacities to 4 000 kg/h



Description

Armstrong's AB-600 Bimetallic Steam Trap operates by the effect that rising temperature has on bimetallic elements. It adjusts itself to changing conditions, as the increasing pressure on the valve is compensated by the curving of the bimetallic elements caused by the increasing temperature.

Armstrong's AB-600 Bimetallic Steam Trap is the ideal solution for applications where other trap styles are not resisting to tough operating conditions. It also has 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 AB-600 utilizes a titanium valve and seat to ensure extremely long service life in the harsh environment of superheated steam systems.

Maximum operating conditions

Maximum allowable pressure

(vessel design)†: 41 bar @ 400°C

Maximum operating pressure: 41 bar

Maximum back pressure: 99% of inlet pressure

Connections

Screwed BSPT and NPT

Socketweld

Flanged DIN or ANSI (welded)

Materials

Body:	Carbon steel C22.8 (corrosion resistant stainless steel body is optional)
Cap:	Carbon steel ASTM A105
Valve:	Titanium
Seat:	Titanium
Elements:	Ni-Cr and Stainless steel
Strainer:	304 Stainless steel

Specification

Bimetallic steam trap with titanium valve, type AB-600 in carbon steel, with integral strainer. Suitable also for superheated steam applications. Maximum allowable back pressure 99% of inlet pressure.

How to order

Specify:

- Size and type of pipe connection.
- Maximum working pressure that will be encountered
- Maximum condensate load

Table ST-179-2. Model AB-600 Trap (dimensions in mm)

Pipe Connections	15 – 20	25
"C" Face-to-Face (screwed & SW)	98	—
"CC" Face-to-Face (flanged PN40*)	150	160
Weight in kg (screwed & SW)	2,8	—
Weight in kg (flanged PN40*)	4,3 – 4,5	4,7

* 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).

Table ST-179-1. Model AB-600 Pressure / Temperature

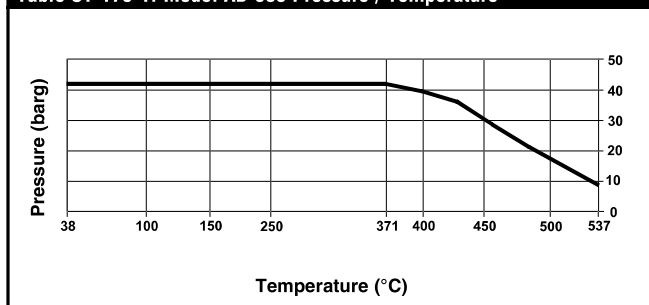
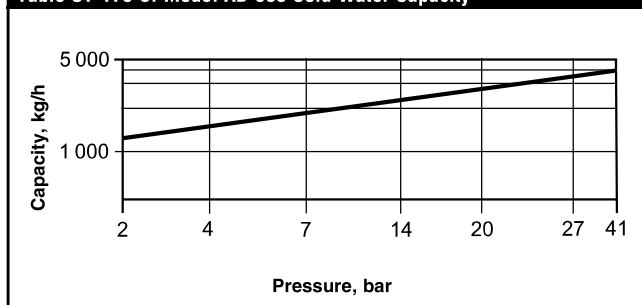


Table ST-179-3. Model AB-600 Cold Water Capacity



† May be derated depending on flange rating and type.

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