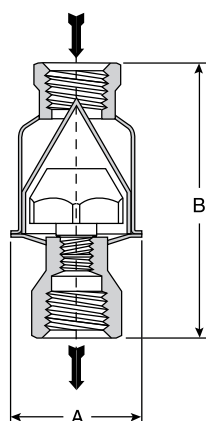




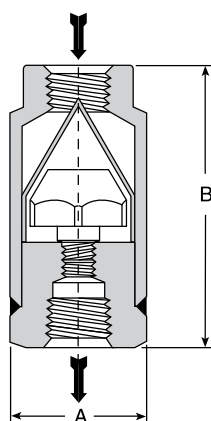
WT Series Thermostatic Wafer Steam Traps

Stainless Steel or Carbon Steel

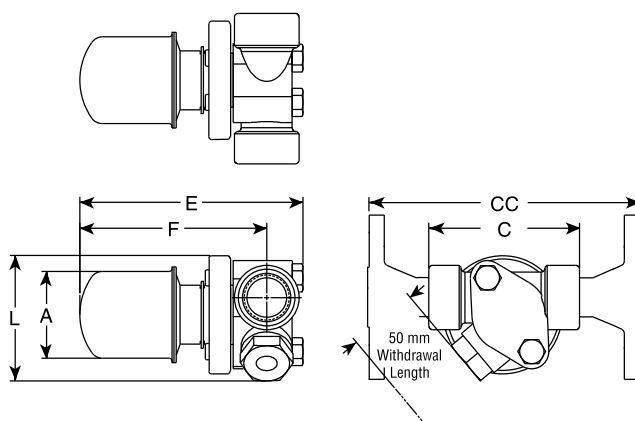
For Pressures to 41 bar...Cold Water Start-Up Capacities to 730 kg/h



Model WT-1 Trap



Model WT-3 Trap



Model WT-2000 with IS-2 Connector with Integral Strainer

Description

Armstrong offers three thermostatic wafer steam traps. The WT-1 is ideal for low-capacity steam tracers and features an exclusive non-welded wafer design and internal strainer screen two to three times larger than that of other thermostatic traps in a sealed stainless steel body. Choice of NPT or BSPT screwed connections.

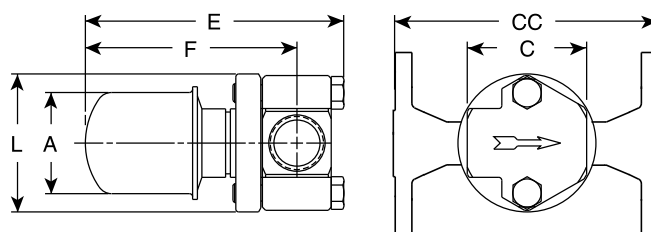
The WT-2000 does not have an internal strainer, but is equipped with a special 360° connector to expand piping options and simplify installation. Choice of NPT or BSPT screwed connections, or socketweld connections. Also available with optional IS-2 stainless steel connector with integral strainer.

Armstrong's WT-3 is a carbon steel thermostatic wafer trap for superheated drip service. It features an exclusive non-welded wafer design, which eliminates problems associated with weld stress. The WT-3 has no thin-walled enclosures such as bellows or welded diaphragms. It is also resistant to water hammer. Choice of NPT or BSPT screwed connections, or socketweld connections.

Note: Since the normal operation of all suppressed temperature-discharge (subcooling) steam traps is to back up condensate, they should not be used on drip legs for saturated steam service, heating or process equipment. Exercise care in the maintenance of any thermostatic wafer trap with a small discharge area susceptible to clogging.

Specification

Thermostatic wafer steam trap, type ... in stainless steel or carbon steel. Maximum allowable back pressure 99% of inlet pressure.



Model WT-2000 with Standard Connector

How to Order

Specify:

- Model number
- Size and type of pipe connection, or connector style
- Any options required

Table ST-170-1. WT Series Trap (dimensions in mm)

Model No.	WT-1	WT-3
Pipe Connections	1/2"	3/4"
"A" Diameter	57	57
"B" Face-to-Face (screwed & SW)	114	119
Weight in kg (screwed & SW)	0,5	0,6

Table ST-170-2. WT Series Trap (dimensions in mm)

Model No.	WT-2000		
	Standard Connector	IS-2 Connector with Integral Strainer	
Pipe Connections	15 – 20 – 25	15 – 20	25
"A" Diameter	57	57	57
"C" Face-to-Face (screwed & SW)	60 – 60 – N/A	89	102
"CC" Face-to-Face (flanged PN40*)	150 – 150 – 160	150	160
"F" Q to Bottom End	108	111	111
"E" Overall Length	133	130	133
"L" Overall Height	72	72	72
Blowdown Connection	—	1/4"	1/4"
Weight in kg (screwed & SW)	1,4	1,5	1,5
Weight in kg (flanged PN40*)	3,8 – 4,0 – 4,2	3,2 – 3,8	4,3

* 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 models comply with the article 3.3 of the PED (97/23/EC).



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



TT Series Thermostatic Bellows Steam Traps

All Stainless Steel

For Pressures to 20 bar...Capacities to 1 570 kg/h

Description

The balanced pressure bellows thermostatic steam trap has a sealed, stainless-steel body that is lightweight, compact and highly resistant to corrosion. The cage, bellows, valve and seat are all assembled into a precisely calibrated operating unit that ensures positive opening and closing action at slightly below steam temperature. The unique, stainless-steel construction is smaller and much lighter than comparable cast iron, brass or steel traps. TTF-1 is available with straight-thru or right angle connections. TT-2000 with the 360° universal stainless steel connector comes with either a standard connector or the IS-2 connector with integral strainer.

Note: Can also be used as a thermostatic air vent (Reference TTF Series Thermostatic Air Vents page AV-348).

Specification

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

How to Order

Specify:

- Model number
- Size and type of pipe connection
- Connector type (TT-2000)

Connections

Screwed BSPT and NPT

TT-2000: Socketweld

TT-2000: Flanged DIN or ANSI (welded)

Materials

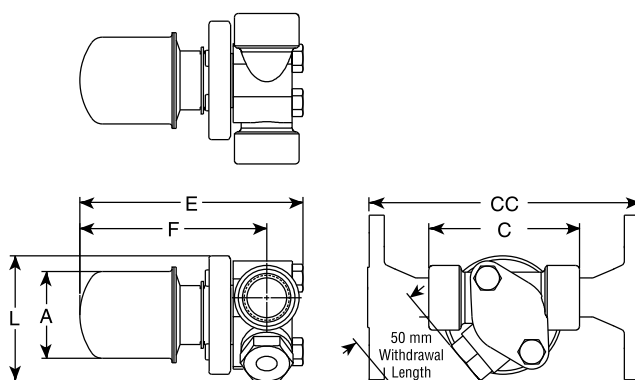
Body: 304L Stainless steel

Connector: 304 Stainless steel (TT-2000)

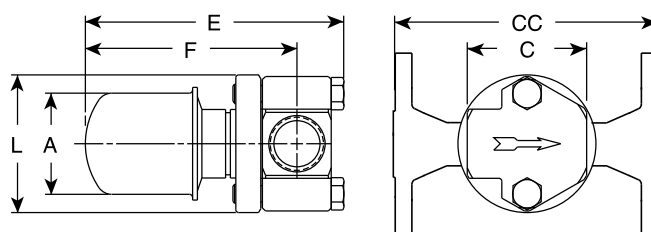
Bellows: Stainless steel and bronze with phosphor-bronze bellows, caged in stainless steel



Model TT-2000 with Standard Connector



Model TT-2000 with Standard Connector



Model TT-2000 with IS-2 Connector with Integral Strainer

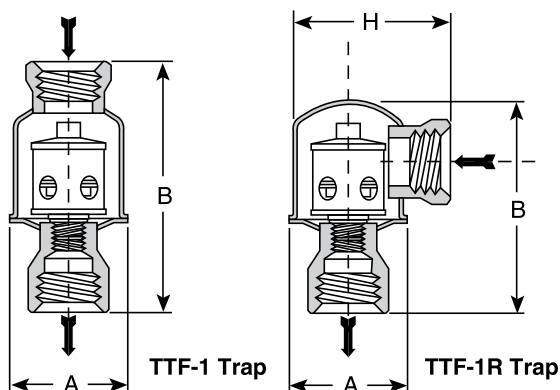


Table ST-180-1. TTF Series Trap (dimensions in mm)

Model No.	TTF-1 Straight-Thru Connections		TTF-1R Right-Angle Connections		TT-2000		
					Standard Connector	IS-2 Connector with Integral Strainer	
Pipe Connections	15	20	15	20	15 – 20 – 25	15 – 20	25
"A" Diameter	57	57	57	57	57	57	57
"B" Height	114	119	95	100	—	—	—
"C" Face-to-Face (screwed & SW)	—	—	—	—	60 – 60 – N/A	89	102
"CC" Face-to-Face (flanged PN40*)	—	—	—	—	150 – 150 – 160	150	160
"E" Overall Length	—	—	—	—	133	130	133
"F" Q to to Body End	—	—	—	—	108	111	111
"L" Overall Height	—	—	—	—	72	72	72
"H" Width for angle connection	—	—	78	76	—	—	—
Weight in kg (screwed & SW)	0,4	0,5	0,4	0,5	1,4	1,5	1,5
Weight in kg (flanged PN40*)	—	—	—	—	3,8 – 4,0 – 4,2	3,2 – 3,8	4,3

* 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 models comply with the article 3.3 of the PED (97/23/EC).

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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TT Series Thermostatic Bellows Steam Traps

All Stainless Steel

For Pressures to 20 bar...Capacities to 1 570 kg/h



Steam Trapping and
Steam Tracing Equipment

Table ST-181-1.

Model	TTF-1	TTF-1R	TT-2000
Design	Welded		
Connections	Screwed BSPT and NPT – Socketweld – Flanged (TT-2000 only)		
Material			
Body	ASTM A240 – 304L		
Valve	Bronze		
Seat	Stainless Steel		
Thermostatic air vent	Standard Stainless steel & bronze w/phosphor bronze bellows caged in stainless steel		
Optional: All stainless steel thermostatic air vent			
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)†	20 bar @ 232°C		
Maximum operating pressure	20 bar		
Maximum operating temperature bellows	190°C		

Maximum back pressure: 99% of inlet pressure

Table ST-181-2. TTF Series Capacity

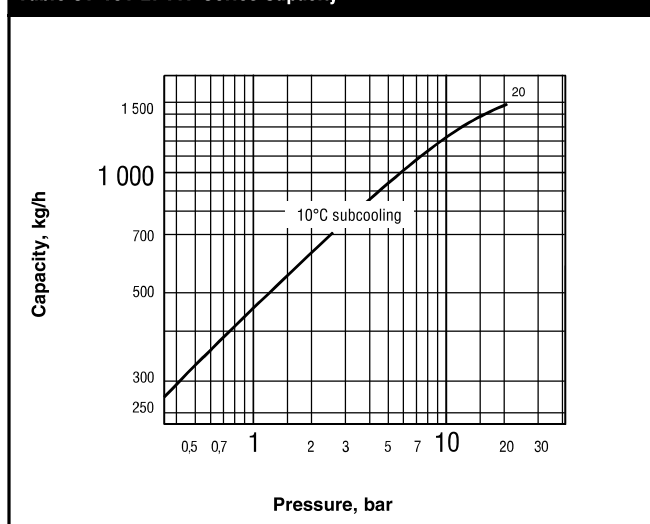
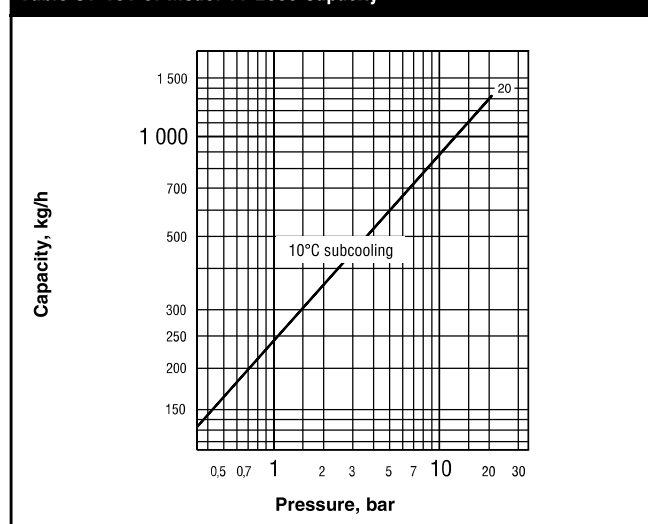


Table ST-181-3. Model TT-2000 Capacity



† 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.

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