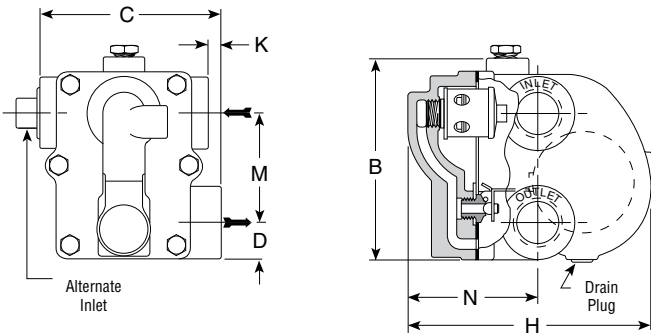




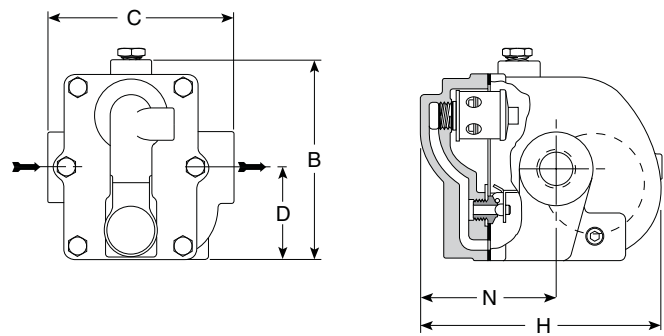
A & AI Series Float & Thermostatic Steam Traps

Cast Iron for Horizontal Installation, with Thermostatic Air Vent
For Pressures to 12 bar...Capacities to 3 900 kg/h

Steam Trapping and Steam Tracing Equipment



Model A Traps Standard Configuration



Model AI Traps

Description

Armstrong A & AI Series F&T traps are for industrial service from 0 to 12 bar and feature a balanced pressure phosphor-bronze type bellows caged in stainless steel. Armstrong A & AI Series F&T traps are designed for service on heat exchange equipment where there is a need to vent air and non-condensable gases quickly.

The AI Series F&T traps feature the convenience of in-line connections with the same rugged internals found in the A Series.

Maximum Operating Conditions

Maximum allowable pressure (vessel design)†: 12 bar @ 192°C

Maximum operating pressure:

- Model 30-A, AI: 2 bar saturated steam
- Model 75-A, AI: 5 bar saturated steam
- Model 125-A, AI: 8,5 bar saturated steam
- Model 175-A, AI: 12 bar saturated steam

Maximum back pressure: 99% of inlet pressure

Note: Cast iron traps should not be used in systems where freezing, excessive hydraulic or thermal shock are present.

Connections

Screwed BSPT and NPT
Flanged DIN or ANSI (screw on) on request

Materials

- Body and cap: ASTM A48 Class 30
- Internals: All stainless steel – 304
- Valve: Stainless steel – 440
- Seat: Stainless steel – 303 (ASTM A582)
- Stainless steel – 440F in 1 1/2" and 2"
- Thermostatic air vent: Stainless steel and bronze with phosphor bronze bellows, caged in stainless steel

Options

Integral vacuum breaker. Add suffix VB to model number.

CAUTION: Do not use a conventional vacuum breaker open to the atmosphere in any system that incorporates a mechanical return system that carries pressure less than atmospheric pressure. This includes all return systems designated as vacuum returns, variable vacuum returns or subatmospheric returns. If a vacuum breaker must be installed in such a system, it should be of the type that is loaded to open only when the vacuum reaches a calibrated level well in excess of the design characteristics of the system.

Specification

Float and thermostatic steam trap, type ... in cast iron, with thermostatic air vent.
Maximum allowable back pressure 99% of inlet pressure.

How to Order

Pressure	Model	Connection Size	Option
75	AI	2	VB
30 = 2 bar 75 = 5 bar 125 = 8,5 bar 175 = 12 bar	A = Standard Connection AI = In-line Connection	3 = DN20 4 = DN25 5 = DN32 6 = DN40 8 = DN50 2 = DN15 3 = DN20 4 = DN25	VB = Vacuum Breaker

Table ST-126-1. A Series Side Inlet, Side Outlet and AI Series In-Line Trap (dimensions in mm)

Model No.	A					AI
Pipe Connections	20	25	32	40	50	15 – 20 – 25
"B" Height	130	130	148	189	248	140
"C" Face-to-Face (screwed)	124	124	117	146	194	127
"D" Bottom to \varnothing	25,4	25,4	31,0	35,7	42,9	65,1
"H" Width	164	164	206	214	295	165
"K" Connection Offset	95,2	95,2	—	—	—	—
"M" \varnothing to \varnothing	76,2	76,2	76,2	106,0	152,0	—
"N" Top to \varnothing	85,7	85,7	95,2	95,2	127,0	93,7
Weight in kg (screwed)	4,3	3,7	5,0	8,5	18,1	4,4

Shade indicates products that are CE Marked according to the PED (97/23/EC). All the other sizes comply with the Article 3.3 of the same directive.
† May be derated depending on flange rating and type.

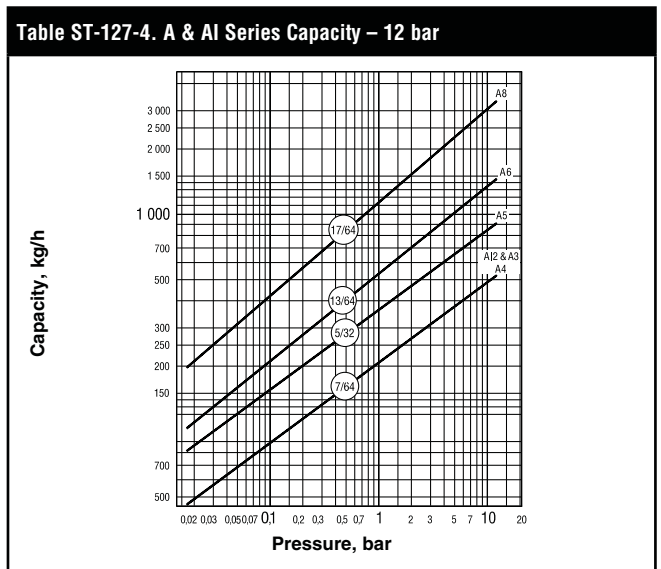
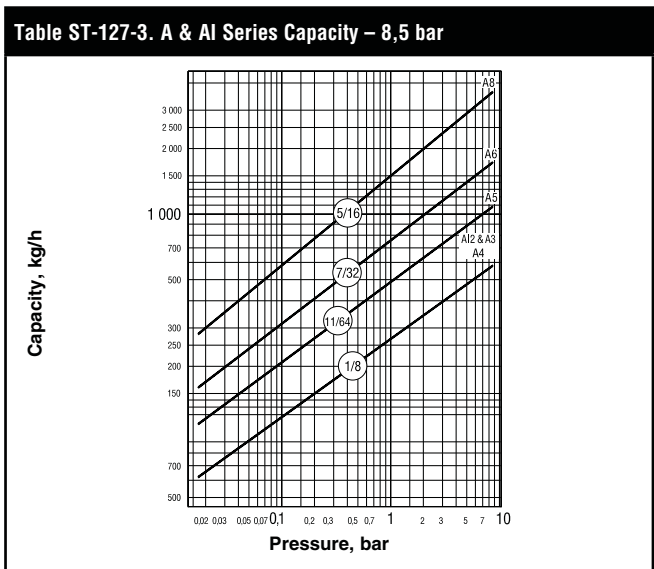
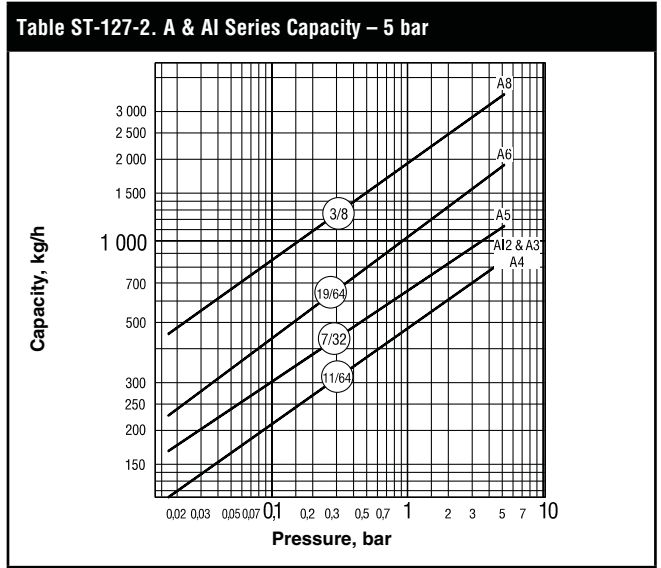
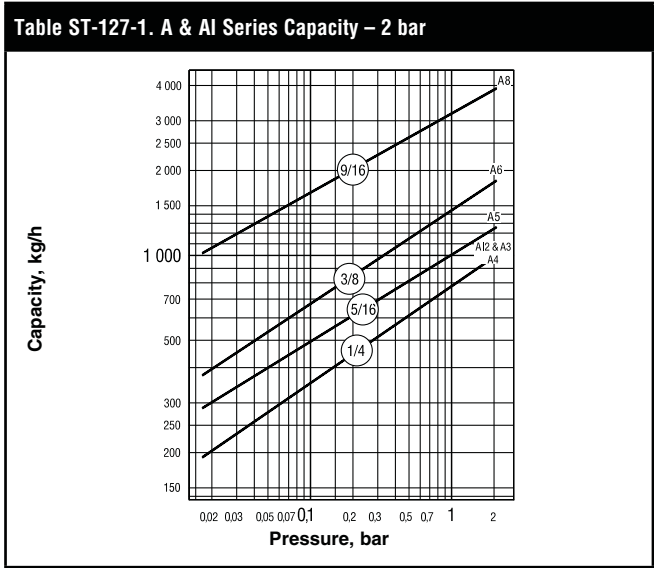
All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

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Options

Vacuum Breaker – 3/8" and 1/2" NPT

Many times, condensate will be retained ahead of steam traps because of the presence of a vacuum. To break a vacuum, air must be introduced into the system by means of a vacuum breaker.

For maximum protection against freezing and water hammer in condensing equipment under modulated control, vacuum breakers are recommended. Armstrong A and AI Series F&T Traps are available with integral vacuum breakers. Maximum service pressure is 10 bar.

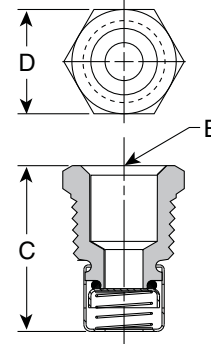


Table ST-127-5. Vacuum Breaker (dimensions in mm)

Size	1/2" NPT	3/8" NPT
"B" Pipe Connections	3/8"	1/4"
"C" Height	30	28
"D" Width	22 Hex	17 Hex

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