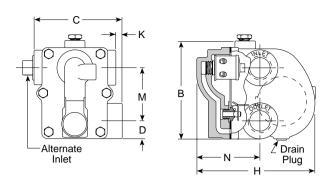
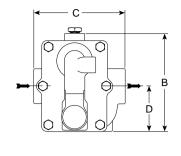
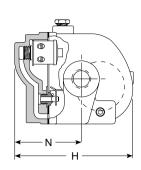
A & Al Series Float & Thermostatic Steam Trap

Cast Iron for Horizontal Installation, With Thermostatic Air Vent

Armstrong® For Pressures to 175 psig (12 bar)...Capacities to 8,600 lb/hr (3,900 kg/hr)







Model A Traps

Model Al Traps

Description

Armstrong A & Al Series F&T traps are for industrial service from 0 to 175 psig and feature a balanced pressure phosphor-bronze type bellows caged in stainless steel. Armstrong A & Al 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): 175 psig @ 377°F (12 bar @ 191°C)

Maximum operating pressure:

Model 30-A, Al:

Model 75-A, Al:

Model 125-A, Al:

Model 175-A, Al:

Model 175-A, Al:

Model 175-A, Al:

Model 175-A, Al:

Model 175-B, Al:

Model 175-A, Al:

Model 175-B, A

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

Connections

Screwed NPT and BSPT

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

ir vent: Stainless steel and bronze with phospho 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.

For a fully detailed certified drawing, refer to CD #1009.

How to Order

Pressure	Model	Connection Size	Option			
75	AI	2	VB			
30 75 125 175	A = Standard Connection AI = In-line Connection	3 = 3/4" 4 = 1" 5 = 1-1/4" 6 = 1-1/2" 8 = 2" 2 = 1/2" 3 = 3/4" 4 = 1"	VB = Vacuum Breaker			

A & Al Series Traps												
Trap Series		Model A							Model Al			
Pipe Connections	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
	3/4	20	1	25	1-1/4	32	1-1/2	40	2	50	1/2, 3/4, 1	15, 20, 25
"B" (Height)	5-1/8	130	5-1/8	130	5-13/16	148	7-7/16	189	9-3/4	248	5-1/2	140
"C" (Face to Face)	4-7/8	124	4-7/8	124	4-5/8	117	5-3/4	146	7-5/8	194	5	127
"D" (Bottom to €)	1	25.4	1	25.4	1-7/32	31.0	1-13/32	35.7	1-11/16	42.9	2-9/16	65.1
"H" (Width)	6-7/16	164	6-7/8	164	8-1/8	206	8-7/16	214	11-5/8	295	6-1/2	165
"K" (Connection Offset)	3/8	95.2	3/8	95.2	_	_	_	_		_	_	_
"Μ" (Ç to Ç)	3	76.2	3	76.2	3	76.2	4-3/16	106	6	152	_	_
"N" (Top to Q)	3-3/8	85.7	3-3/8	85.7	3-3/4	95.2	3-3/4	95.2	5	127	3-11/16	93.7
Weight lb (kg)	9-1/2	(4.3)	8-1/4	(3.7)	11 ((5.0)	18-3/4	1 (8.5)	40 (18.1)	9-3/4	(4.4)

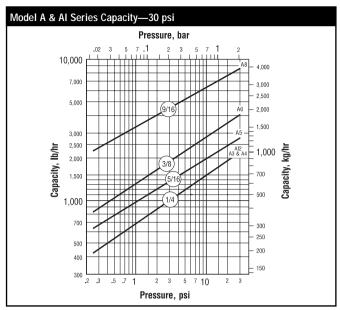
NOTE: Cast iron traps should not be used in systems where excessive hydraulic or thermal shock are present.

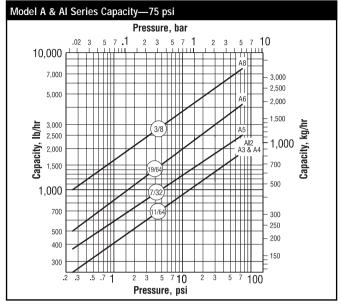
All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

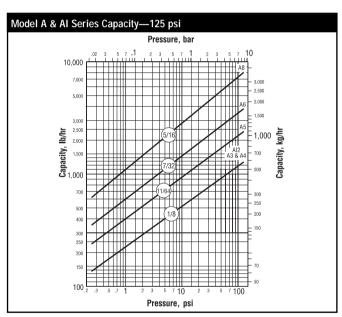
A & Al Series Float & Thermostatic Steam Trap Cast Iron for Horizontal Installation, With Thermostatic Air Vent

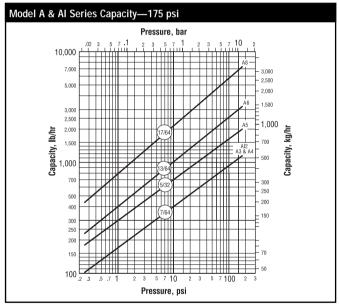
For Pressures to 175 psig (12 bar)...Capacities to 8,600 lb/hr (3,900 kg/hr)











Options

Vacuum Breaker-3/8" (10 mm) and 1/2" (15 mm) 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 Al Series F&T Traps are available with integral vacuum breakers. Maximum service pressure is 150 psig (10 bar).

Vacuum Breaker						
Cino	in	mm	in	mm		
Size	1/2 NPT	15	3/8 NPT	10		
"B" Pipe Connections	3/8 NPT	10	1/4 NPT	6		
"C" Height	1-1/4	30	1-3/32	28		
"D" Width	7/8 Hex	22 Hex	11/16 Hex	17 Hex		

