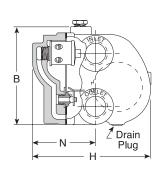


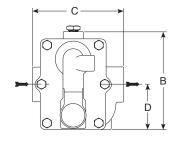
A & Al Series Float & Thermostatic Steam Trap

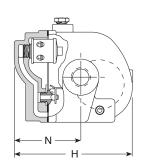
Cast Iron for Horizontal Installation, With Thermostatic Air Vent

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

M D Alternate Inlet







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 guickly.

The Al 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, AI: 30 psig (2 bar) saturated steam 75 psig (5 bar) saturated steam Model 75-A, AI: Model 125-A AI: 125 psig (8.5 bar) saturated steam Model 175-A, AI: 175 psig (12 bar) saturated steam

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

Connections

Screwed NPT and BSPT

Materials

ASTM A48 Class 30 Body and cap: 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.

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

How to Order

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

A & Al Series Traps												
Trap Series	Model A					Model AI						
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 C)	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	_	_	_	_	_	_	_	_
"M" (← to ←)	3	76.2	3	76.2	3	76.2	4-3/16	106	6	152	_	_
"N" (Top to €)	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	(8.5)	40 (1	8.1)	9-3/4	1 (4.4)

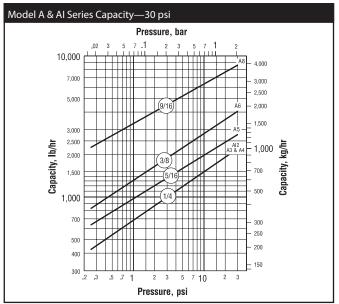
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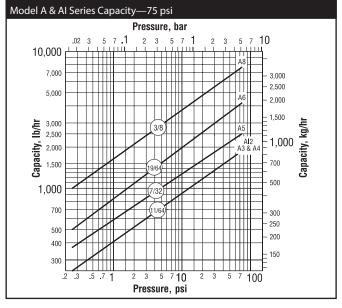
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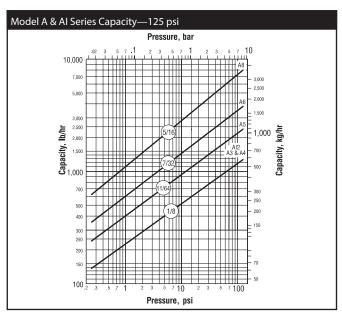
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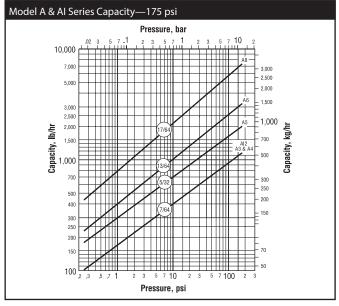
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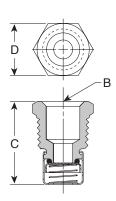
Options

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











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