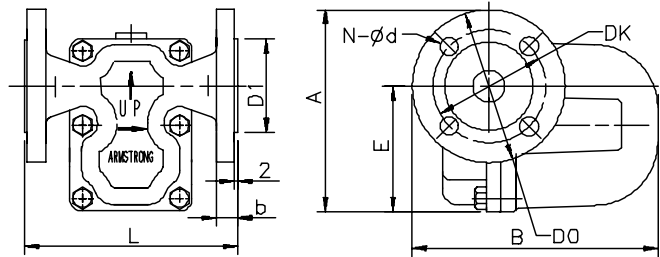




AIC Series DN15-25 Float & Thermostatic Steam Trap

Ductile Iron for Horizontal Installation, with Thermostatic Air Vent
For Pressures to 14,2 bar...Capacities to 1 024 kg/h

Steam Trapping and Steam Tracing Equipment



Description

Armstrong AIC Series F&T traps are designed for industrial service to 14.2 bar. They feature all the benefits of Armstrong F&T traps, such as operation against back pressure, continuous drainage, high-capacity venting of air and CO₂, long life and dependable service and enjoys the convenience of in-line connections.

Armstrong AIC Series F&T traps are the perfect solution for applications where there is a need to vent air and non-condensable gases quickly at start-up.

Maximum Operating Conditions

Maximum allowable pressure (vessel design):	17 bar @ 232°C (screwed)
	14,2 bar @ 232°C (EN1092-2 PN16)
Maximum Allowable Pressure:	17 barg (screwed)
	14,2 barg (EN1092-2 PN16)
Maximum Allowable Temperature:	232°C
Maximum Operating Pressure:	14,2 barg

Note: Caution should be used when Float and Thermostatic steam traps are applied in systems where freezing or excessive hydraulic shock can occur.

Materials

Body & Cap	ASTM A395 Gr. 60-40-18 EN 1563 Gr. EN-GIS-400-18U
Gasket	Graphite
Seat	Stainless Steel 303
Internals	Stainless Steel 304
Valve	Stainless Steel 17-4-PH
Thermostatic Air Vent	Hastelloy Wafer
Hex Bolt	12.9

Connections

Screwed BSPT and NPT
Flanged EN1092-2 PN16

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.

How to Order

Model	Flow Direction	Connection Size	Connection Type	Pressure	Option
AIC F+T	L/R	DN20	PN16	3/32	VB
AIC F+T	L/R = Left to Right	1/2" 3/4" 1"	Screwed	1/4 = 1 bar 7/32 = 2 bar 1/8 = 5 bar 3/32 = 8,5 bar 5/64 = 14,2 bar	VB = Vacuum Breaker (limited to 10 bar)
		DN15 DN20 DN25	Flanged		
AIC-HC F+T		1"	Screwed	11/32 = 1 bar 5/16 = 2 bar 7/32 = 5 bar 11/64 = 9 bar 1/8 = 14 bar	
		DN25	Flanged		

Table 128-1. Table Available Connections and Face-To-Face Dimensions

Connection	1/2" DN15	3/4" DN20	1" DN25	AIC-HC 1" - DN25
«A» (Height Screwed) in mm	135	135	135	135
«A» (Height Flanged PN16) in mm	142	147	152	152
«B» (Length Screwed) in mm	175	175	175	220
«B» (Length Flanged PN16) in mm	175	180	185	238
«L» (Face-to-face Screwed) in mm	160	160	160	160
«L» (Face-to-face Flanged PN16) in mm	150	150	160	160
«b» (Flange width) in mm	16	16	18	18
«E» (Bottom to centerline of inlet) in mm	96	96	96	96
«D1» in mm	ø 48	ø 58	ø 68	ø 68
«Do» in mm	ø 95	ø 105	ø 115	ø 115
«DK» in mm	ø 65	ø 75	ø 85	ø 85
«N - ød» in mm	4 - ø 14	4 - ø 14	4 - ø 14	4 - ø 14
Vacuum Breaker (optional) in inch	3/8"	3/8"	3/8"	3/8"
Weight in kg screwed	4,4 kg	4,4 kg	4,4 kg	4,6 kg
Weight in kg flanged	6,2 kg	6,5 kg	7,0 kg	7,25 kg

All the sizes comply with the Article 4.3 of the PED (2014/68/UE)

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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Ductile Iron for Horizontal Installation, with Thermostatic Air Vent
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Table 129-1. Model AIC DN15-25 – Capacity Chart

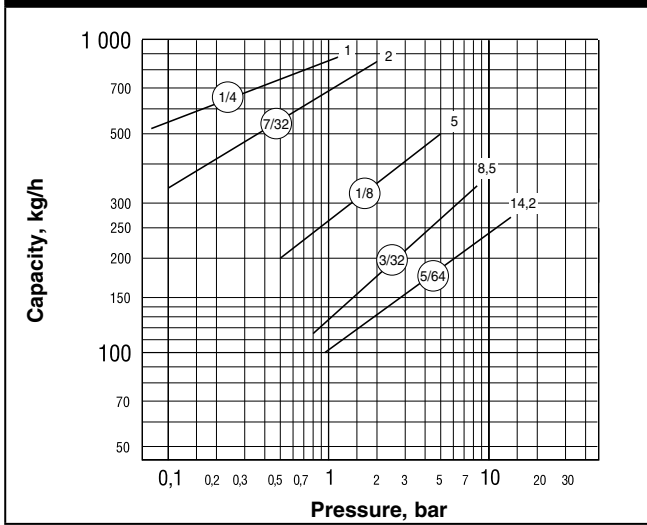
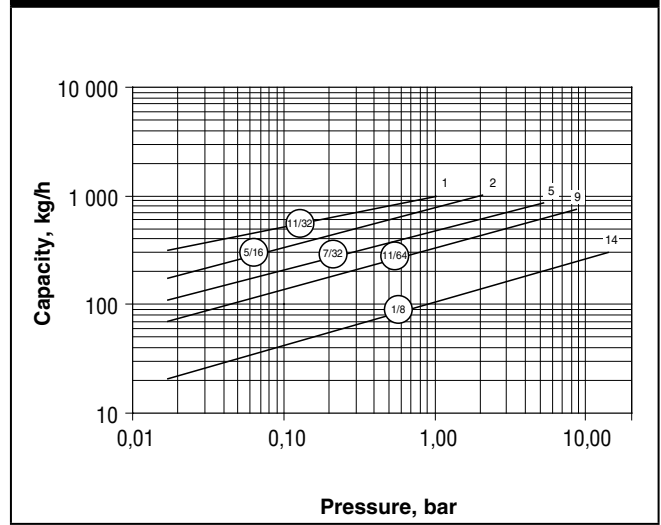


Table ST-129-2. 2 Model AIC-HC DN25 – Capacity Chart



Specification

The steam trap shall be an Armstrong model AIC (AICF) float & thermostatic type. Cap and body shall be ASTM A395 Gr. 60-40-18 (EN1563) or EN-GJS-400-18U Ductile Iron. Pipe connections shall be in the cap and the entire mechanism attached to the cap. Float and seat shall be stainless steel with heat-treated chrome steel valve. The float shall be Heliarc welded to avoid introduction of dissimilar metals. The thermostatic Air Vent shall be a balanced pressure Hastelloy wafer with chrome steel seat. Maximum allowable back pressure should be 99% of the inlet pressure.

Options

Vacuum Breaker

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 AIC Series F&T Traps are available with integral vacuum breakers. Maximum service pressure is 10 bar.

Steam Trapping and Steam Tracing Equipment

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