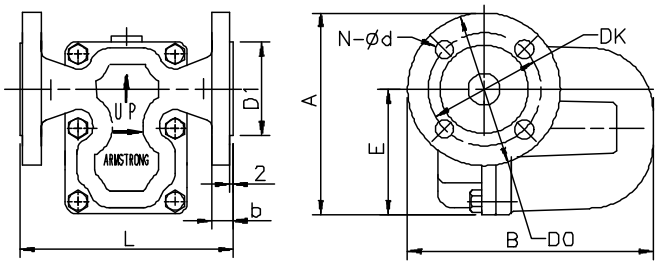
AIC Series DN15-25 Float & Thermostatic Steam Trap

Nodular Cast Iron (GS) for Horizontal Installation, with Thermostatic Air Vent
For Pressures to 14 bar...Capacities to 900 kg/h



Description

Armstrong AIC Series F&T traps are designed for industrial service to 14 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 CO_2, 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
Maximum Allowable Pressure:	17 barg (AICF model is limited to PN16)
Maximum Allowable Temperature:	232°C
Maximum Operating Pressure:	14 barg

Note: Float & Thermostatic steam traps should not be used in systems where freezing or excessive hydraulic shocks can occur.

Connections

Screwed BSPT and NPT
Flanged DIN PN16

Materials

Body & Cap	EN-GJS-400-15 (EN1563)
Gasket	Graphite
Seat	Stainless Steel 303
Internals	Stainless Steel 304
Valve	Stainless Steel 440
Thermostatic Air Vent	Hastelloy Wafer
Hex Bolt	SAE Grade B2

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

Pressure	Model	Connection Size	Option
75	AIC	2	VB
15 = 1 bar 30 = 2 bar 75 = 5 bar 125 = 8,5 bar 200 = 14 bar	AIC = Screwed Connection AICF = DIN Flanged Connection	2 = 1/2" 3 = 3/4" 4 = 1" 2 = DN15 3 = DN20 4 = DN25	VB = Vacuum Breaker (limited to 10 bar)

Table ST-124-1. Table Available Connections and Face-To-Face Dimensions

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

All the sizes 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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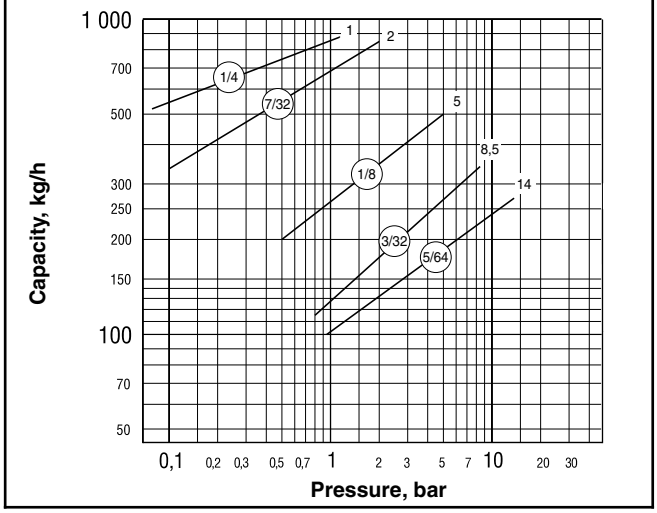
Table ST-125-1. Model AIC DN15-25 – Capacity Chart



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

Specification

The steam trap shall be an Armstrong model AIC (AICF) float & thermostatic type. Cap and body shall be EN-GJS-400-15 (EN1563) Nodular 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.

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