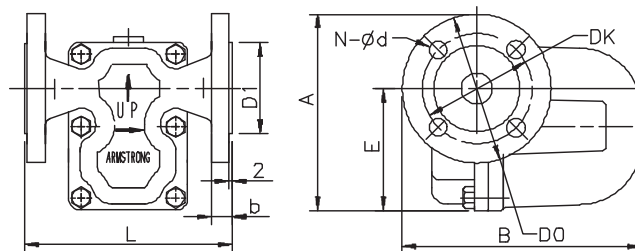




## AIC Series DN15-25 Float & Thermostatic Steam Trap

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



### 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 CO<sub>2</sub>, 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 17 bar @ 232°C (vessel design):  
(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.

### Flow Direction

Left to right

### 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 132-1. Table Available Connections and Face-To-Face (dimensions in mm)

Connection	1/2" DN15	3/4" DN20	1" DN25	AIC-HC 1" - DN25
«A» (Height Screwed)	135	135	135	135
«A» (Height Flanged PN16)	142	147	152	152
«B» (Length Screwed)	175	175	175	220
«B» (Length Flanged PN16)	175	180	185	238
«L» (Face-to-face Screwed)	160	160	160	160
«L» (Face-to-face Flanged PN16)	150	150	160	160
«b» (Flange width)	16	16	18	18
«E» (Bottom to centerline of inlet)	96	96	96	96
«D1»	ø 48	ø 58	ø 68	ø 68
«D0»	ø 95	ø 105	ø 115	ø 115
«Dk»	ø 65	ø 75	ø 85	ø 85
«N - ød»	4 - ø 14	4 - ø 14	4 - ø 14	4 - ø 14
Vacuum Breaker (optional)	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)

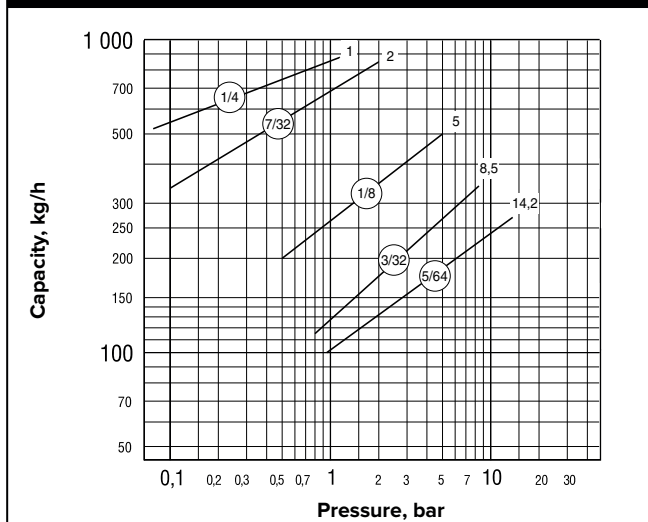
All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

# 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



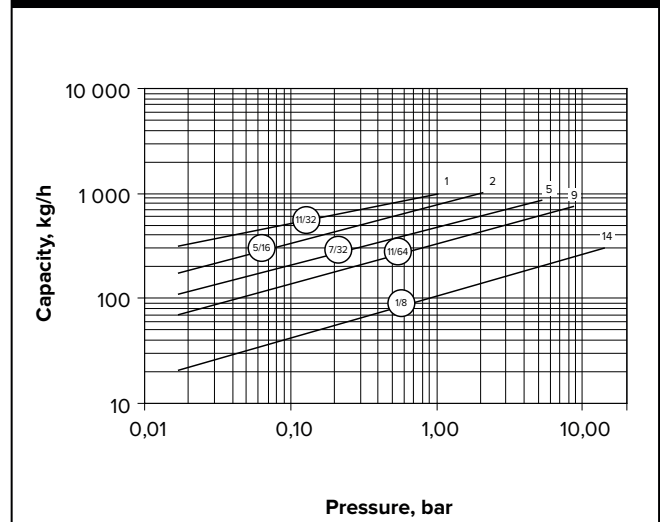
Table 133-1. Model AIC DN15-25 – Capacity Chart



## 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.

Table ST-133-2. 2 Model AIC-HC DN25 – 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 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.