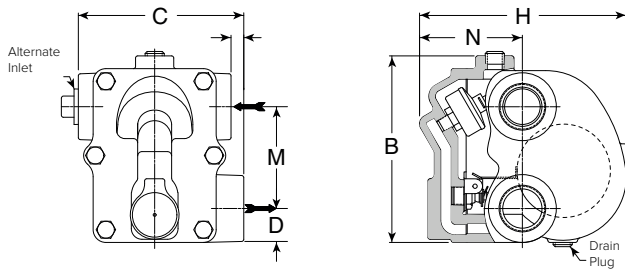




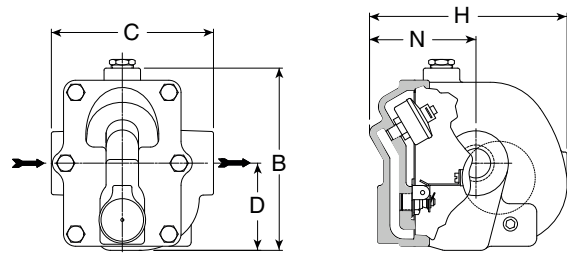
B and BI Series Float & Thermostatic Steam Traps

Cast Iron for Horizontal Installation, with Thermostatic Air Vent

For Pressures to 2 bar...Capacities to 4 040 kg/h



Model B Traps Standard Configuration



Model BI Traps

Description

Armstrong B and BI Series F&T traps combine high standards of performance and long life with economy for heating service where continuous drainage with high air-venting capacity is required.

Because of the wide use of vacuum returns in systems of this type, the thermostatic air vent element is charged to give it the capability of compensated response to the pressure-temperature curve of steam at any pressure from less than 500 mm Hg vacuum to 2 bar gauge. B and BI Series F&T traps will vent air at slightly below steam temperature throughout this entire range of operation.

All B Series traps, except the 1/2" and 3/4", have inlet connections on both sides of the body to provide flexibility in piping. The **BI Series F&T traps** in sizes 1/2", 3/4" and 1" feature the convenience of in-line connections with the same internals as the B Series.

Maximum Operating Conditions

Maximum allowable pressure (vessel design):
 Model B2-B3: 8,5 bar @ 178°C
 Model B4-B8: 12 bar @ 192°C

Maximum operating pressure:
 15B, BI: 1 bar saturated steam
 30B, BI: 2 bar saturated steam

Maximum back pressure: 99% of inlet pressure

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

Connections

Screwed BSPT and NPT
 Flanged EN 1092-1 or ASME B16.5 (screw on) on request

Materials

Body and cap: ASTM A48 Class 30
 Internals: All stainless steel – 304
 Valve: Stainless steel – 303 or 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. Maximum allowable back pressure 99% of inlet pressure.

How to Order

Pressure	Model	Connection Size	Option
15	B	2	VB
15 = 1 bar 30 = 2 bar	B = Standard Connection	2 = DN15 3 = DN20 4 = DN25 5 = DN32 6 = DN40 8 = DN50	VB = Vacuum Breaker
	BI = In-line Connection	2 = DN15 3 = DN20 4 = DN25	

Table ST-128-1. B Series Side Inlet, Side Outlet and BI Series In-Line Trap (dimensions in mm)

Model No.	B					BI
Pipe Connections	15 – 20	25	32	40	50	15 – 20 – 25
"B" Height	124	140	140	189	244	143
"C" Face-to-Face (screwed)	98	124	117	146	194	127
"D" Bottom to \bar{C}	22,2	25,4	31,0	36,5	42,9	68,0
"H" Width	137	152	197	214	295	168
"K" Connection Offset	3,2	9,5	—	—	—	—
"M" \bar{C} to \bar{C}	69,8	76,2	76,2	106,0	152,0	—
"N" Top to \bar{C}	65,1	76,2	85,7	95,2	127,0	83,0
Weight in kg (screwed)	2,7	3,9	5,0	8,6	18,1	4,4

Shade indicates products that are CE Marked according to the PED (2014/68/UE). All the other sizes comply with the Article 4.3 of the same directive.
 † May be derated depending on flange rating and type.

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-129-1. B & BI Series Capacity – 1 bar

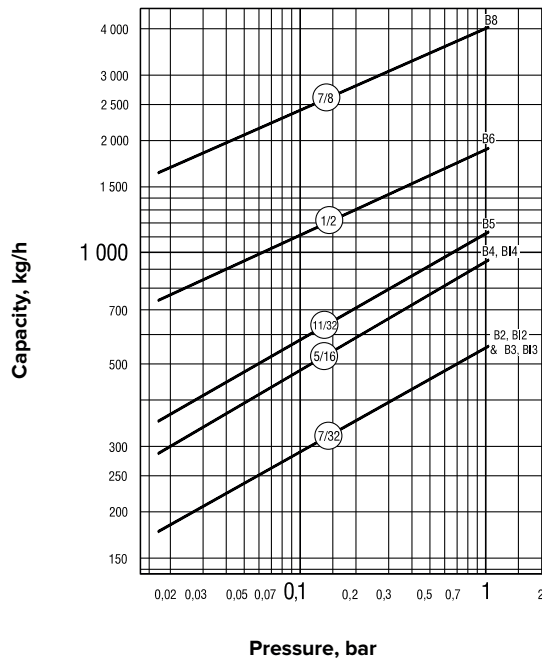
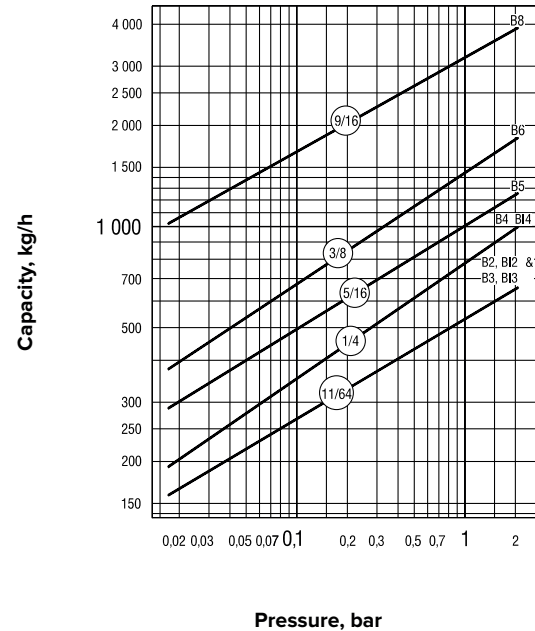


Table ST-129-2. B & BI Series Capacity – 2 bar



Options

Vacuum Breaker – 3/8" and 1/2" 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 B and BI Series F&T traps are available with integral vacuum breakers. Maximum pressure is 10 bar.

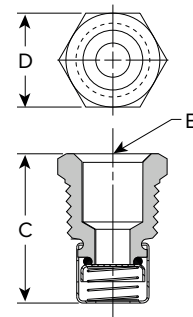


Table ST-129-3. Vacuum Breaker (dimensions in mm)

Size	1/2" NPT	3/8" NPT
"B" Pipe Connections	3/8"	1/4"
"C" Height	30	28
"D" Width	22 Hex	17 Hex

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