

Description

Model B2-B3:

Model B4-B8 Maximum operating pressure:

Connections Screwed NPT and BSPT

Materials

Body and cap:

Internals: Valve

Seat:

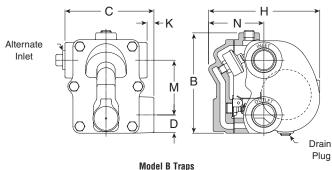
15B. BI:

30B, BI:

B and BI Series Float & Thermostatic Steam Trap

Cast Iron for Horizontal Installation. With Thermostatic Air Vent

For Pressures From Vacuum to 30 psig (2 bar)...Capacities to 8,900 lb/hr (4,037 kg/hr)



Armstrong B and BI Series F&T traps combine high standards of

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 20" (500 mm) Hg vacuum to 30 psig (2 bar) gauge.

All B Series traps, except the 1/2" (15 mm) and 3/4" (20 mm), 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

NOTE: Cast iron traps should not be used in systems where excessive

in-line connections with the same internals as the B Series.

Maximum Operating Conditions Maximum allowable pressure (vessel design):

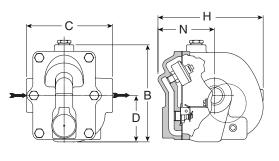
B and BI Series F&T traps will vent air at slightly below steam temperature

drainage with high air-venting capacity is required.

throughout this entire range of operation.

hydraulic or thermal shock are present

performance and long life with economy for heating service where continuous



Model BI Traps

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 #1167.

How to Order

Pressure	Model	Model Connection Size		
15	B	2	VB	
15 30	B = Standard Connection	$\begin{array}{c} *2 = 1/2" \\ *3 = 3/4" \\ 4 = 1" \\ 5 = 1 - 1/4" \\ 6 = 1 - 1/2" \\ 8 = 2" \end{array}$	VB = Vacuum Breaker	
	BI = In-line Connection	2 = 1/2" 3 = 3/4" 4 = 1"		

*No alternate inlet available.

Thermostatic air vent:

ASTM A48 Class 30 All stainless steel-304 Stainless steel-303 or 440 Stainless steel-303 (ASTM A582) Stainless steel-440F in 1-1/2" and 2" Stainless steel and bronze with phosphor bronze bellows, caged in stainless steel

125 psig @ 353°F (8.5 bar @ 178°C) 175 psig @ 377°F (12 bar @ 191°C)

15 psig (1 bar) saturated steam

30 psig (2 bar) saturated steam

B and **BI** Series Traps **Trap Series B** Model **BI Model** in mm in mm mm in mm in mm in mm in Pipe Connections 1/2.3/4 1-1/4 1/2. 3/4. 1 15. 20. 25 15.20 1 25 32 1 - 1/240 2 50 "B" (Height) 4-7/8 124 5 - 1/2140 5-1/2 140 7-7/16 189 9-5/8 244 5-5/8 143 3-7/8 4-7/8 "C" (Face to Face) 98 124 4-5/8 117 5-3/4 146 7-5/8 194 5 127 "D" (Bottom to Q) 7/8 22.2 1 25.4 1-7/32 31.0 1-7/16 36.5 1-11/16 42.9 2-11/16 68 5-3/8 137 6 7-3/4 8-7/16 214 11-5/8 6-5/8 168 "H" (Width) 152 197 295 "K" (Connection Offset) 1/8 3.2 3/8 9.5 ____ 3 4-3/16 "M" (Ç to Ç) 2-3/4 69.8 3 76.2 76.2 106 6 152 "N" (Top to Ç) 2-9/16 65.1 3 76.2 3-3/8 85.7 3-3/4 95.2 3-9/32 83 5 127 Weight Ib (kg) 8-1/2 (3.9) 11 (5.0) 40 (18.1) 6 (2.7) 19 (8.6) 9-3/4 (4.4)

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

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.

B and **BI** Series Float & Thermostatic Steam Trap

Cast Iron for Horizontal Installation, With Thermostatic Air Vent For Pressures From Vacuum to 30 psig (2 bar)...Capacities to 8,900 lb/hr (4,037 kg/hr) Model B & BI Series Capacity-15 psi Pressure, bar .1 10.000 4.000 7,000 3.000 2.500 5,000 2.000 1.500 3,000 Capacity, Ib/hı 2,500 Capacity, kg/ł 1,000 BL 2.000 700 1,500 B2, B12 B3, BI3 500 1,000 700 300 250 500 200 400 150 300 7 10 .7 .2 .3 .5 1 2 3 5 2 Pressure, psi

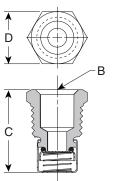
Pressure, bar 10,000 4.000 7,000 3,000 2,500 5,000 (9/16 2,000 kg/hr 1.500 lh/d 3,000 2,500 Capacity, 1 Capacity, 1,000 2,000 B2, BI2 B3, BI3 1,500 700 500 1,000 700 300 250 500 200 400 150 300 ⁵ ⁷ 10 .2 .3 .5 .7 1 2 3 2 3 Pressure, psi

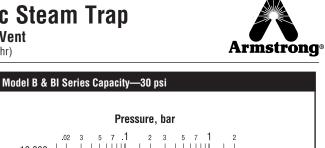
Options

Vacuum Breakers 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 B and BI Series F&T traps are available with integral vacuum breakers. Maximum pressure is 150 psig (10 bar).

Vacuum Breakers						
Size	in	mm	in	mm		
5120	1/2 NPT	15 3/8	NPT	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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