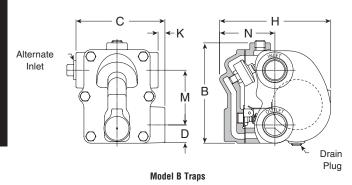
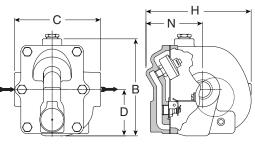


B and **BI** Series Float & Thermostatic Steam Trap



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 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 20" (500 mm) Hg vacuum to 30 psig (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" (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 in-line connections with the same internals as the B Series.

Maximum Operating Conditions

Maximum allowable pressure (vessel design):

Model B2-B3: Model B4-B8 Maximum operating pressure: 15B. BI: 30B, BI:

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

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

Connections

Screwed NPT and BSPT

Materials

Body and cap: Internals: Valve: Seat:

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

Thermostatic air vent:

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	Connection Size	Option			
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.

B and BI Series Traps												
Trap Series		B Model						BI Model				
Pipe Connections	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
	1/2, 3/4	15, 20	1	25	1-1/4	32	1-1/2	40	2	50	1/2, 3/4, 1	15, 20, 25
"B" (Height)	4-7/8	124	5-1/2	140	5-1/2	140	7-7/16	189	9-5/8	244	5-5/8	143
"C" (Face to Face)	3-7/8	98	4-7/8	124	4-5/8	117	5-3/4	146	7-5/8	194	5	127
"D" (Bottom to 🕼)	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
"H" (Width)	5-3/8	137	6	152	7-3/4	197	8-7/16	214	11-5/8	295	6-5/8	168
"K" (Connection Offset)	1/8	3.2	3/8	9.5	—	—	_	—	—	_	_	—
"M" (@ to @)	2-3/4	69.8	3	76.2	3	76.2	4-3/16	106	6	152	_	—
"N" (Top to 🕼)	2-9/16	65.1	3	76.2	3-3/8	85.7	3-3/4	95.2	5	127	3-9/32	83
Weight Ib (kg)	6 (2	2.7)	8-1/2	(3.9)	11 (5.0)	19 (8.6)	40 (1	8.1)	9-3/4	(4.4)

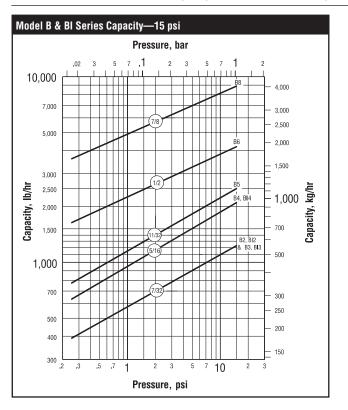
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Website: https://thegioivalve.vn/

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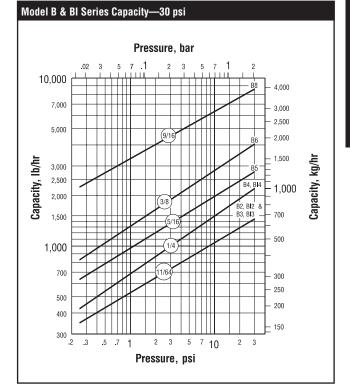


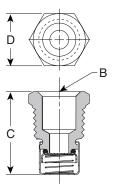
Options

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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