



Model IB Bucket Traps (VAC - 250 PSIG) Inverted Bucket Design

Features

- Available in 1/2", 3/4", 1", 1-1/4", 1-1/2", 2" and 2-1/2" sizes to fit most every industrial and process application
- High strength cast iron body
- Tolerates dirty steam for low maintenance and maximum service life and reliability
- Immediate condensate discharge at saturated steam temperature
- Meets MIL Spec WWT 696

Description

Designed for dependable service, long life and low maintenance for medium and high pressure steam MEPCO bucket traps feature an inverted bucket design with corrosion resistant stainless steel components providing optimal performance laundry equipment, blast coils, hot water heaters, steam kettles and a wide range of industrial and process applications.

The valve seat and plug are in the top of the bucket away from the dirt and debris that collect in the trap body.

Operation

The key to the long life and reliability of a MEPCO bucket trap is to select the actual pressure differential of your application. A bucket trap being used for a greater differential than its rating will not open. Conversely a trap with a rating that exceeds the differential will operate at a reduced capacity.

Initially prime to create a water seal with the bucket in the down fully open position, air and water enter through the trap's inlet tube. Air is vented from the orifice in the top of the bucket while condensate flows out from under the bucket. Steam entering the trap will fill the bucket causing it to become buoyant allowing it to overcome the weight of the bucket and rising to snap the plug into the seat. The trap will stay fully shut until enough steam has condensed, allowing the bucket to immediately drop and return to a fully open state.



Engineering Specifications: Capacities (Gross)

Differential Pressure (PSIG)

lbs. condensate per hour

Model	Pipe Size	PMO	Orifice	1/4	1	5	10	15	20	30	60	70	80	100	125	150	180	200	225	250	
IB00	1/2" and 3/4"	20	3/16	140	272	460	560	646	698	-	-	-	-	-	-	-	-	-	-	-	
				48	112	200	310	370	420	510	640	662	690	-	-	-	-	-	-	-	-
	150	#38	24	56	90	150	200	262	350	490	530	570	642	685	-	-	-	-	-	-	
			20	54	75	112	153	2,025	275	385	415	442	482	545	572	-	-	-	-	-	-
IB11	1/2" and 3/4"	15	1/4	192	452	835	952	1,062	-	-	-	-	-	-	-	-	-	-	-	-	
				125	310	545	672	775	882	1,000	-	-	-	-	-	-	-	-	-	-	-
				72	170	185	440	500	590	715	905	952	-	-	-	-	-	-	-	-	-
	125 and 1"	1/8	7/64	56	135	225	342	396	465	565	715	762	805	862	955	-	-	-	-	-	
				32	70	155	232	277	338	410	550	582	615	665	740	812	855	865	-	-	
				46	82	100	155	192	243	295	426	455	475	525	576	621	675	7,002	732	765	
IB12	1/2" and 3/4"	15	5/16	350	825	1,610	2,210	-	-	-	-	-	-	-	-	-	-	-	-		
				385	510	950	1,385	1,640	1,800	2,060	-	-	-	-	-	-	-	-	-	-	
				198	425	790	950	1,125	1,270	1,510	2,010	2,210	-	-	-	-	-	-	-	-	
				110	310	565	690	820	910	1,075	1,450	1,555	1,660	1,810	2,020	-	-	-	-	-	
				70	180	330	470	510	585	712	990	1,060	1,111	1,240	1,375	1,525	1,580	1,605	-	-	
IB13	3/4" and 1"	15	1/2	955	1,880	2,910	3,525	3,900	-	-	-	-	-	-	-	-	-	-	-		
				500	1,420	2,310	2,700	3,320	3,510	4,000	-	-	-	-	-	-	-	-	-		
				350	950	1,745	2,050	2,525	2,830	3,140	4,440	-	-	-	-	-	-	-	-		
				310	740	1,355	1,600	1,960	2,220	2,450	3,500	3,825	4,025	-	-	-	-	-			
IB14	1" and 1-1/4"	15	5/8	1,410	2,920	4,825	5,810	6,500	-	-	-	-	-	-	-	-	-	-	-		
				955	2,255	3,710	4,750	5,220	6,010	6,810	-	-	-	-	-	-	-	-	-		
				510	1,775	2,960	3,560	4,000	4,725	5,420	6,810	-	-	-	-	-	-	-	-		
				390	1,570	2,525	2,925	3,225	3,525	4,440	5,775	6,000	6,420	-	-	-	-	-	-		
				320	1,210	2,000	2,500	2,750	3,125	4,820	5,275	5,625	6,220	6,710	-	-	-	-	-		
				275	960	1,510	1,925	2,220	2,360	2,910	3,800	4,260	4,510	4,820	5,520	5,710	6,010	-	-		
				190	590	1,010	1,260	1,465	1,810	2,220	3,160	3,360	3,520	3,810	4,310	4,460	4,710	5,330	5,525		
				190	590	1,010	1,260	1,465	1,810	2,220	3,160	3,360	3,520	3,810	4,310	4,460	4,710	5,330	5,525		
IB15	1-1/4" and 1-1/2" and 2"	15	3/4	2,060	4,170	7,625	9,020	10,000	-	-	-	-	-	-	-	-	-	-	-		
				925	2,920	5,220	6,430	7,725	8,525	9,825	-	-	-	-	-	-	-	-	-		
				600	2,220	3,810	5,025	6,025	6,625	7,625	9,525	-	-	-	-	-	-	-	-		
				510	1,720	3,030	4,525	5,220	6,110	8,525	9,225	9,725	10,420	-	-	-	-	-			
				390	1,510	2,625	3,200	3,910	4,525	5,440	7,505	8,060	8,525	9,610	10,910	-	-	-			
				340	1,210	2,110	2,620	3,220	3,710	4,525	6,600	7,025	7,260	8,120	8,980	9,500	10,000	-			
				310	980	1,710	2,125	2,600	2,960	3,620	5,420	5,710	5,925	6,610	7,320	7,360	7,900	9,225	9,810		
				260	710	1,220	1,510	1,920	2,110	2,610	3,800	4,010	4,170	4,600	5,110	5,500	6,000	6,375	6,800	7,000	
IB16	2" and 2-1/2"	15	1-1/16	4,060	8,420	14,525	17,350	19,200	-	-	-	-	-	-	-	-	-	-	-		
				2,090	5,500	10,000	12,950	15,620	18,525	-	-	-	-	-	-	-	-	-	-		
				1,905	4,510	8,220	10,625	12,810	15,000	18,000	-	-	-	-	-	-	-	-	-		
				1,460	3,520	6,910	8,720	10,620	12,110	14,270	19,825	-	-	-	-	-	-	-	-		
				1,270	3,100	6,000	7,620	9,330	10,620	12,500	17,325	18,320	19,000	-	-	-	-	-			
				1,065	2,620	5,000	6,410	7,820	8,900	10,500	14,525	15,420	16,330	18,100	20,000	-	-	-			
				915	2,220	4,190	5,550	6,660	7,525	9,250	12,420	13,330	14,200	15,800	17,500	18,500	20,000	-			
				590	1,820	3,410	4,525	5,410	6,110	7,500	10,125	10,825	11,510	12,830	14,300	15,610	16,900	17,500	18,500	19,000	

Dimensions

* Face bushed to size

Model #	IB00	IB11	IB12	IB13	IB14	IB15	IB16
Pipe Size	1/2"-3/4"	1/2"-3/4"-1"	1/2"-3/4"-1"	3/4"-1"	*1"-1-1/4"	*1-1/4"-1-1/2"-2"	2"-2-1/2"
Prime Plug	1/4"	1/4"	1/2"	3/4"	1"	1-1/2"	2"
A Face to Face	5"	5"	6-1/2"	7-3/4"	9"	10-1/4"	13"
B Height	5-7/16"	6-7/8"	9-1/16"	11-3/4"	13-5/8"	16-1/4"	21-5/16"
C C.L. to Bottom	2-3/4"	4-1/4"	5-3/8"	7-1/32"	7-13/16"	8-1/16"	11"
Weight	5#	6#	15#	27-1/2#	44#	71#	131#
Max. Op. Press.	150	250	250	250	250	250	250

List of Materials

Part	Material
Cap & Body	ASTM A48 CI 30
Gasket	Compressed Non-Asbestos
A Face to Face	Grade 5 or 7
B Height	Stainless Steel
C C.L. to bottom	Stainless Steel
Weight	Stainless Steel
Max Op. Press.	Stainless Steel

Flow Direction

