



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 80	3/16 1/8	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 30	1/4 3/16	192	452	835	952	1,062	-	-	-	-	-	-	-	-	-	-	-	-	-	
				125	310	545	672	775	882	1,000	-	-	-	-	-	-	-	-	-	-	-	-
	125 and 1"	70 1/8 7/64	72	170	185	440	500	590	715	905	952	-	-	-	-	-	-	-	-	-	-	
			56	135	225	342	396	465	565	715	762	805	862	955	-	-	-	-	-	-	-	-
	250	#38	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 30	5/16 1/4	350	825	1,610	2,210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				385	510	950	1,385	1,640	1,800	2,060	-	-	-	-	-	-	-	-	-	-	-	-
	125 and 1"	70 5/32 1/8	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	-	-	-	-	-	-	-	-
	250	7/64	70	180	330	470	510	585	712	990	1,060	1,111	1,240	1,375	1,525	1,580	1,605	-	-	-	-	
			40	130	250	350	375	425	525	725	790	820	915	1,020	1,111	1,180	1,230	1,285	1,320	-	-	-
IB13	3/4" and 1"	15 30	1/2 3/8	955	1,880	2,910	3,525	3,900	-	-	-	-	-	-	-	-	-	-	-	-	-	
				500	1,420	2,310	2,700	3,320	3,510	4,000	-	-	-	-	-	-	-	-	-	-	-	-
	125 and 180	9/32 1/4 7/32	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	-	-	-	-	-	-	-	-	-	-
	250	3/16	270	620	1,110	1,320	1,620	1,820	2,020	2,850	3,120	3,320	3,610	3,925	-	-	-	-	-	-	-	
			185	500	880	1,170	1,350	1,600	2,100	2,510	2,700	2,830	3,070	3,200	3,520	3,725	-	-	-	-	-	-
IB14	1" and 1-1/4"	15 30	5/8 1/2	1,410	2,920	4,825	5,810	6,500	-	-	-	-	-	-	-	-	-	-	-	-	-	
				955	2,255	3,710	4,750	5,220	6,010	6,810	-	-	-	-	-	-	-	-	-	-	-	-
	125 and 180	11/32 5/16 9/32	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	-	-	-	-	-	-	-	-	-	-
	250	1/4	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	-	-	-	-	-	-
IB15	1-1/4" and 1-1/2"	15 30	3/4 9/16	2,060	4,170	7,625	9,020	10,000	-	-	-	-	-	-	-	-	-	-	-	-	-	
				925	2,920	5,220	6,430	7,725	8,525	9,825	-	-	-	-	-	-	-	-	-	-	-	-
	180 and 250	5/16 9/32 1/4	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	-	-	-	-	-	-	-	-	-	-
	250	1/4	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	-	-	-	-	-	-
IB16	2" and 2-1/2"	15 25	1-1/16 7/8	4,060	8,420	14,525	17,350	19,200	-	-	-	-	-	-	-	-	-	-	-	-	-	
				2,090	5,500	10,000	12,950	15,620	18,525	-	-	-	-	-	-	-	-	-	-	-	-	-
	125 and 180	3/4 5/8	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	-	-	-	-	-	-	-	-	-	-	-	-
	250	3/8	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	-	-	-	-	-	-	-	-

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

