



Model IBS

Bucket Traps with Integral Strainer

(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 meet nearly every industrial and process application
- High strength cast iron bodies
- Low maintenance - tolerates dirty steam - for maximum service life and reliability
- Immediate condensate discharge at saturated steam temperature
- Meets MIL Spec WW T 696

Description

Designed for extended service and low

maintenance with medium and high pressure steam. Mepco Bucket Traps feature an inverted bucket design with corrosion resistant stainless parts for optimal performance with blast coils, laundry equipment, hot water heaters, steam

kettles and a broad range of industrial and process applications.

Operation

Key to the reliability of a Mepco Bucket trap is that the trap is selected for the actual pressure differential of your application, and the valve seat and plug are in the top, away from the dirt and debris that collects in the trap body. A trap being used for a greater differential than its rating will not open. Conversely, a trap with a rating which exceeds the differential will operate at a reduced capacity.

Initially primed to create a water seal with the bucket in a down (fully open) position, air and water enter the trap through the inlet tube. Air is vented from a small orifice in the top of the bucket, while condensate flows out from under the bucket. When steam enters the trap, it fills the bucket, causing it to become buoyant, overcoming the weight of the bucket, and rising to "snap" the plug into the seat. The trap stays fully shut until sufficient steam has condensed to allow the bucket to immediately drop, and return to its full open state. They are also resistant to water hammer.

Mepco offers seven models in 20 capacities. Using the table on the reverse, specify the Mepco trap which delivers the most efficient energy saving operation and lowest maintenance cost.



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"	20	3/16	140	272	460	560	646	698	-	-	-	-	-	-	-	-	-	-	-	-
	and	80	1/8	48	112	200	310	370	420	510	640	662	690	-	-	-	-	-	-	-	-
	3/4"	125	7/64	24	56	92	150	200	262	350	490	530	570	642	685	-	-	-	-	-	-
	150	#38	20	54	75	112	153	205	275	385	415	442	482	545	572	-	-	-	-	-	-
IB11	1/2"	15	1/4	192	452	835	952	1062	-	-	-	-	-	-	-	-	-	-	-	-	-
	and	30	3/16	125	310	545	672	775	882	1000	-	-	-	-	-	-	-	-	-	-	-
	3/4"	70	5/32	72	170	185	440	500	590	715	905	952	-	-	-	-	-	-	-	-	-
	and	125	1/8	56	135	225	342	396	465	565	715	762	805	862	955	-	-	-	-	-	-
	1"	200	7/64	32	70	155	232	277	338	410	550	582	615	665	740	812	855	865	-	-	-
250	#38	46	82	100	155	192	243	295	426	455	475	525	576	621	675	702	732	765	-	-	
IB12	3/4"	15	5/16	350	825	1610	1920	2110	-	-	-	-	-	-	-	-	-	-	-	-	-
	and	30	1/4	285	510	950	1385	1640	1800	2060	-	-	-	-	-	-	-	-	-	-	-
	1"	70	3/16	198	425	790	950	1125	1270	1510	2010	2210	-	-	-	-	-	-	-	-	-
	125	5/32	110	310	565	690	820	910	1075	1450	1555	1660	1810	2020	-	-	-	-	-	-	-
	200	1/8	70	180	330	470	510	585	712	990	1060	1111	1240	1375	1525	1580	1605	-	-	-	-
250	7/64	40	130	250	350	375	425	525	725	790	820	915	1020	1111	1180	1230	1285	1320	-	-	
IB13	3/4"	15	1/2	955	1880	2910	3525	3900	-	-	-	-	-	-	-	-	-	-	-	-	-
	and	30	3/8	500	1420	2310	2700	3320	3510	4000	-	-	-	-	-	-	-	-	-	-	-
	1"	60	5/16	350	950	1745	2050	2525	2830	3140	4440	-	-	-	-	-	-	-	-	-	-
	and	80	9/32	310	740	1355	1600	1960	2220	2450	3500	3825	4025	-	-	-	-	-	-	-	-
	1-1/4"	125	1/4	270	620	1110	1320	1620	1820	2020	2850	3120	3320	3610	3925	-	-	-	-	-	-
180	7/32	185	500	880	1170	1350	1600	2100	2510	2700	2830	3070	3200	3520	3725	-	-	-	-	-	
250	3/16	140	410	715	960	1125	1310	1710	2060	2220	2320	2510	2610	2715	3030	3225	3410	3500	-	-	

Dimensions

MODEL #	IB00	IB11	IB12	IB13
Pipe Size	1/2"-3/4"	3/4"-1"	1/2"-3/4"-1"	3/4"-1"-1-1/4"
Prime Plug	1/4"	1/4"	1/2"	3/4"
A Face to Face	5-1/16"	5-1/16"	6-7/8"	8-1/4"
B Height	6-1/8"	7-1/4"	9-3/8"	12-5/8"
C C.L. to bottom	3-3/8"	4"	5-7/16"	7-9/16"
Weight LBS.	6.8	7.9	19.1	35.2
Max Op. Press.	250	250	250	250

List of Materials

No.	Part	Material
1	Body	ASTM A48 CI 30
2	Cover	ASTM A48 CI 30
3	Valve	AISI D3
4	Valve Seat	AISI D3
5	Lever	Stainless Steel
6	Bucket Clip	Stainless Steel
7	Bucket	Stainless Steel
8	Bolt and Nut	SAE Grade 5
9	Strainer Screen	SS 304 Perforated

