

Inverted Bucket Steam Traps Series TA-IB (Models 8080 & 8181)

Operation

Tunstall Associates, Inc. produces a full line of Inverted Bucket Steam Traps containing a stainless steel bucket and valve mechanism which are either in a full closed position, or a full open position to discharge condensate.

As the system starts, air and non-condensable gases vent through the orifice in the bucket; condensate also enters through the standpipe which forms a water seal in the bottom of the bucket. As steam enters the trap a simple lever mechanism attached to the inverted bucket snaps shut; then as the steam condenses the buoyancy of the bucket changes thus opening the lever mechanism, and allowing pressure to force the condensate out of the trap. This process repeats itself exactly and continuously to maximize the efficient use of energy. No cooling leg required. Refer to capacity charts when ordering.



Features

- In-Line Connection
- High Strength Cast Iron Body
- Hardened Stainless Steel Valve & Seat
- Stainless Steel Bucket
- Test Plug
- Low Maintenance

Materials of Construction				
Body & Cover	Cast Iron-ASTM-A-126-7 Class B			
Bucket & Linkage	Stainless Steel			
Valve & Seat	Hardened Stainless Steel			
Standpipe	Steel Pipe			
Cover Gasket	Non-Asbestos			

Applications

- Converters
- Dryers
- High-Pressure Drip
- Laundry Equipment
- Oil Pre-heaters
- Pressing Machinery
- Process Equipment
- Steam Cookers
- Steam Heated Vats
- Unit Heater

Model 8080

Max. Operating Pressure: 150 PSIG Max. Allowable Temperature: 366°F

Model 8181

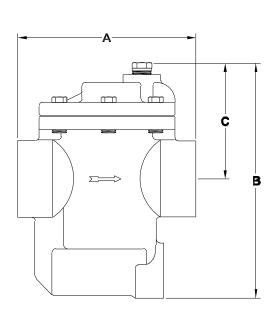
Max. Operating Pressure: 250 PSIG Max. Allowable Temperature: 450°F



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Engineering Specifications

Capacity Chart



Model 8080 & Model 8181

Differential Pressure PSI	Mo	del 8080	Model 8181		
	Orifice Size (In.)	Condensate Per hour	Orifice Size (In.)	Condensate Per hour	
1/4	†	139	†	191	
1/2		200		300	
3/4		240		395	
1		270		450	
2		340		590	
3		390		680	
4		425		750	
5		450		830	
10		560		950	
15		640	1/4	1060	
20	3/16	690	†	585	
25	†	460		655	
30		500	3/16	710	
40		550	A	770	
50		580		840	
60		635		900	
70		660	5/32	950	
80	1/8	690	†	800	
100	†	500		860	
125		550		950	
150	#38	570		660	
180				670	
200			7/64	700	
225			†	730	
250			#38	760	

Capacities given are in pounds of hot condensate per hour at differential indicated.

Weights and Dimensions						Repair Kit
Model	Size (in.)	Weight	Dimensions			Specify maximum
Number	NPT	(lbs.)	A	В	С	working pressure when ordering repair kits
8080	1/2	5	5.000	5.875	3.125	- TA-IB-RK-8080
8080	3/4	5	5.000	5.875	3.125	
8181	1/2	6	5.000	6.875	2.625	
8181	3/4	6	5.000	6.875	2.625	TA-IB-RK-8181
8181	1	6	5.000	6.875	2.625	



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