

DURA-FLO INVERTED BUCKET STEAM TRAPS

Pressures To 250 PSIG (17.2 barg)
Temperatures to 450°F (232°C)



Applications

- Steam Lines
- Process Equipment
- Steam Cookers
- Steam Heated Vats
- Pressing Machinery
- Unit Heaters
- Oil Preheaters
- Converters
- Coils
- Rotating Drum

Options *See page B11*

- Repair Kits
- PCA Repair Kits

Canadian Registration # 0E0591.9

Hardened Stainless Steel Valve and Seat — Long life and maximum corrosion resistance.

Stainless Steel Bucket — Long lasting, rugged and naturally resistant to water hammer.

Inexpensive — Low maintenance and initial cost.

Repairable in-line — All working parts lift out of top of trap.

Unique Reusable Gasket — Durable Teflon® cover gasket can be reinstalled numerous times.

Cast Iron Body — Durable heavy wall construction provides years of reliable service.

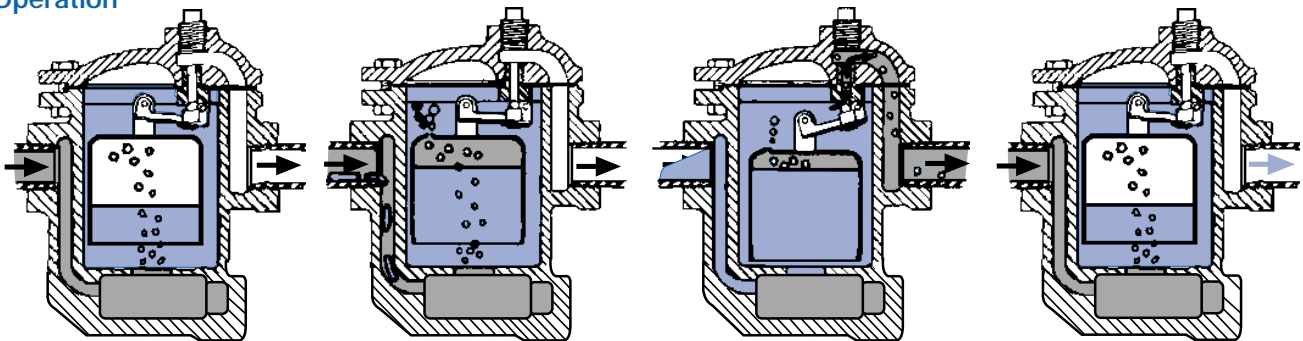
Suitable for Wide Variety of Loads/Applications — Horizontal and vertical models in ten body sizes.

Resists Dirt and Scale — Valve and seats positioned at top of traps and internal stainless strainer available on most horizontal models ensure long service.

Models

- 80S—Low capacity horizontal w/integral strainer
- 81S—Medium low capacity horizontal w/integral strainer
- 82S—Medium capacity horizontal w/integral strainer
- 83S—Medium high capacity horizontal w/integral strainer
- 85—High capacity horizontal w/integral strainer
- 21—Low capacity vertical
- 22—Medium low capacity vertical
- 23—Medium capacity vertical
- 25—Medium high capacity vertical
- 26—High capacity vertical

Operation



Trap Closed – After trap is installed and primed, steam entering the trap collects in the top of the bucket, floating the bucket and forcing the valve into its seat.

Trap Begins to Open – As condensate begins to flow into the trap, steam and air are forced from the bucket. This causes the bucket to begin losing buoyancy, tending to pull the valve from its seat.

Trap Discharges – When enough condensate has entered the trap, displacing the steam and air, the bucket drops, pulling the valve from the seat and allowing condensate and air to discharge.

Trap Closes – As the flow of condensate stops, steam enters the trap and refloats the bucket, forcing the valve into its seat. The cycle then repeats as more condensate reaches the trap.

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Typical Specification

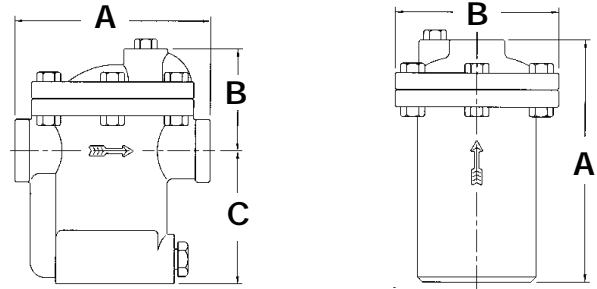
Furnish and install as shown on the plans, inverted bucket traps capable of discharging condensate, air and other non-condensable gases without loss of steam. These traps shall have a heavy cast iron body, hardened stainless steel valve and seat, all stainless steel linkage and bucket, and reusable Teflon® body gasket.

Maximum Operating Conditions

PMO: Max. Operating Pressure see orifice selection
 TMO: Max. Operating Temperature saturated at pressure
 PMA: Max. Allowable Pressure 250 psig (114 barg)
 TMA: Max. Allowable Temperature 450°F (232°C)

Construction

Body & Cover: Cast Iron ASTM-A-126/A48
 Bucket & Linkage: Stainless Steel
 Valve & Seat: Hardened Stainless Steel
 Standpipe: Steel Pipe
 Cover Gasket: Teflon®



Connections: 1/2" - 2" NPT

Dimensions					
Model	NPT Size	Inches (mm)			Weight Lbs. (kg)
		A	B	C	
80S	1/2, 3/4	5 1/16 (129)	2 5/8 (67)	3 7/16 (87)	7 (3.2)
81S	1/2, 3/4	5 (127)	2 5/8 (67)	4 7/16 (113)	8 (3.6)
82S	1/2, 3/4	7 (178)	3 5/8 (92)	5 3/4 (146)	22 (10)
83S	3/4, 1	8 1/8 (206)	5 (127)	7 3/8 (187)	32 (14.5)
85	1 1/2, 2	10 1/4 (260)	8 3/16 (208)	8 1/16 (206)	74 (33.6)
21	1/2	6 3/8 (162)	4 1/4 (108)	—	6.5 (3)
22	1/2, 3/4	8 (203)	5 5/8 (143)	—	16 (7.3)
23	3/4, 1	10 1/2 (267)	6 7/8 (175)	—	28 (12.7)
25	1, 1 1/2	14 3/8 (365)	9 1/16 (230)	—	60 (27.3)
26	1 1/2, 2	16 11/16 (424)	10 1/4 (260)	—	90 (40.9)