

INVERTED BUCKET

This trap uses an inverted bucket that floats when steam is present and sinks when condensate exceeds a predetermined liquid level. When the bucket floats the valve – at the top of the trap – is closed. When it sinks the valve will open. On start up the bucket is down and the valve is wide open, when condensate and air enters the trap it flows directly into the bucket. The condensate falls into the trap body whereas air collects at the top of the bucket and causes it to float thereby closing the valve. Air is released through a vent at the top of the bucket and collects in the top of the trap until the bucket sinks opening the valve and allows the discharge of air and condensate. When steam is formed, it collects in the top of the bucket causing it to float thereby closing the valve. The bucket will sink again when condensate reaches the predetermined level and the cycle starts over.

MAIN FEATURES

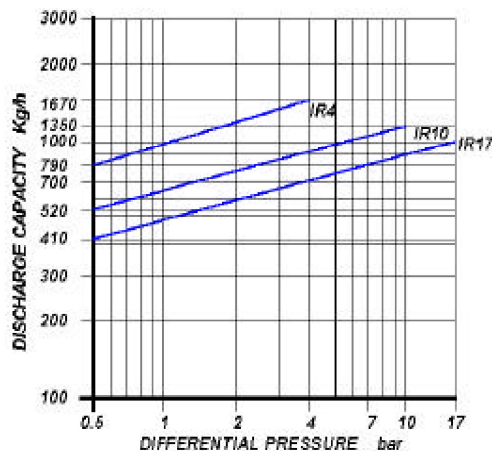
Discharge of condensate at steam temperature. Simple and reliable construction. Slow discharge of air. Suitable for superheated steam. It withstands waterhammer.



APPLICATIONS

- ☐ Heater batteries
- ☐ Heat exchangers
- ☐ Pans
- ☐ Turbines
- ☐ Drying cylinders
- ☐ Ironing machines

DISCHARGE CAPACITY



Cold water capacities are 2 to 4 times greater than the above.
Safety factor = 1.2 – 1.5

SIZES

3/4" – 1"

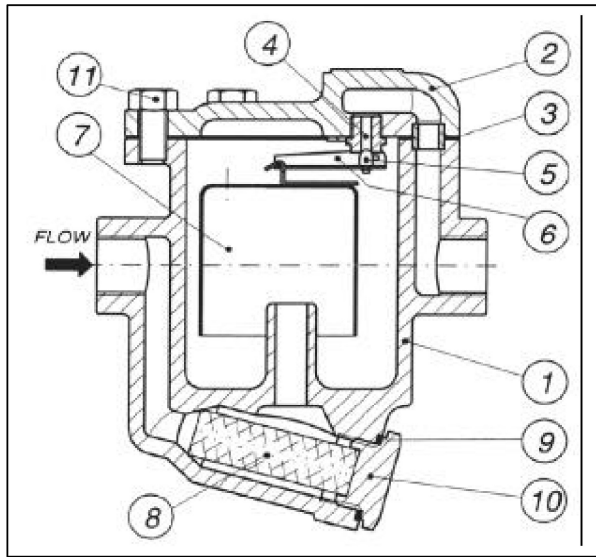
CONNECTIONS

Screwed	BS 21 (BSP)
Flanged (ON REQUEST)	ANSI B 16.5 / UNI / DIN

LIMITING CONDITIONS (according to ISO 6552)

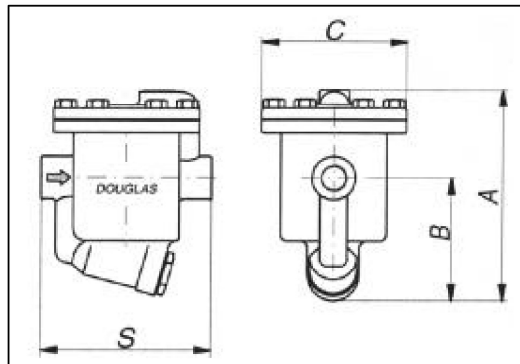
Steam Trap rating	DIN PN 25
PMA: Max allowable pressure	25 bar
TMA: max allowable temperature	300°C
PMO: max working pressure	17 bar
TMO: max working temperature	250°C
Max. Differential pressure (IR 4)	4 bar
Max. Differential pressure (IR 10)	10 bar
Max. Differential pressure (IR 17)	17 bar

INVERTED BUCKET STEAM TRAPS IR



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	GGG40 (DIN 1693)	
2	Cover	GGG40 (DIN 1693)	
3	Gasket	CAF	X
4	Seat	AISI 410	X
5	Valve	AISI 410	X
6	Lever	AISI 304	X
7	Bucket	AISI 304	X
8	Screen	AISI 304	X
9	Gasket	316 / GRAPHITE	X
10	Plug	ASTM A 105	
11	Bolts	8.8 (UNI 3704-74)	

Size (inches)	S	A	B	C	Weight (Kg)
3/4"	175	219	127	150	9
1"	175	219	127	150	9



INSTALLATION

The trap must be installed with the body upright so that the bucket rises and falls vertically. The inlet and outlet connections must be in a horizontal position, with the trap installed below the drain point in order to form and preserve the internal water seal.

HOW TO SERVICE

Remove cover (2) by undoing bolts (11) un hook the bucket (7) from the valve lever (6) unscrew the seat (4) from the cover (2) screw in the new one, hooking the bucket back (7). To service the strainer, unscrew cap (10), withdraw screen (8) and clean or replace it. Screwing the cap back in place, always fit a new gasket (9).

How to order: i.e. IR 10 1" BSP

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