DOUGLAS ITALIA S.P.A.

INVERTED BUCKET STEAM TRAPS
IB A105

INVERTED BUCKET

This trap uses an inverted bucket that floats whean 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 end 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 predeterminated level and the cycle starts over.

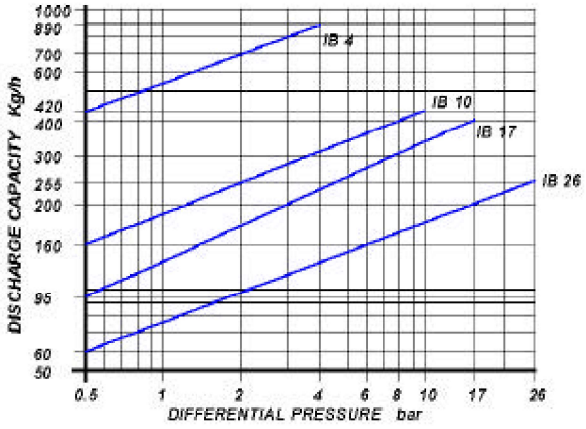
MAIN FEATURES

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

APPLICATIONS

- *Heater batteries*
- *Heat exchangers*
- *Pans*
- *Turbines*
- *Drying cilinders*
- *Ironing machines*

DISCHARGE CAPACITY



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

SIZES

½" – ¾" – 1"

CONNECTIONS

Screwed	*BS 21 (BSP) /ANSI B1.20.1 (NPT)*
Socket weld	*ANSI B 16.11*
Flanged	*ANSI 150#/300#/600#/UNI/DIN*

LIMITING CONDITIONS *(according to ISO 6552)*

Steam Trap rating		*ANSI 300*
PMA: Max allowable pressure		*50 bar*
TMA: max allowable temperature		*420°C*
PMO: max working pressure		*26 bar*
TMO: max working temperature		*380°C*
Max. Differential pressure	*(IB 4)*	*4 bar*
Max. Differential pressure	*(IB 10)*	*10 bar*
Max. Differential pressure	*(IB 17)*	*17 bar*
Max. Differential pressure	*(IB 26)*	*26 bar*

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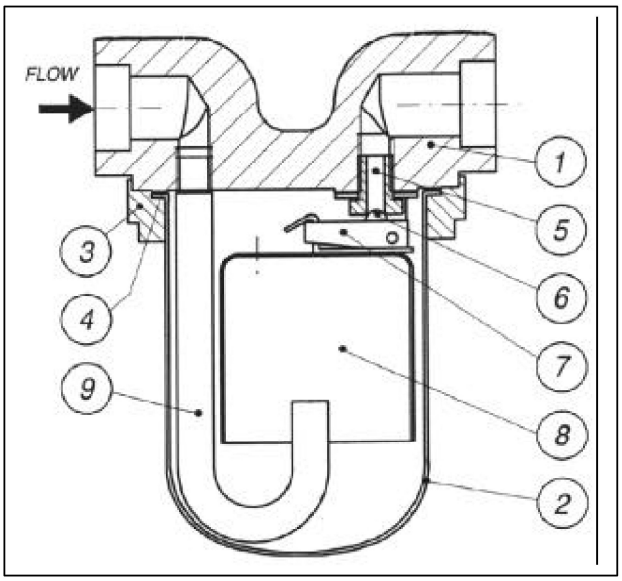
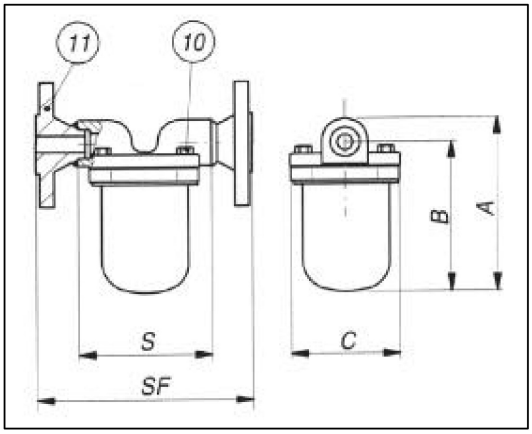


POS.	DESCRIPTION	MATERIALS	SPARES
1	Cover	ASTM A 105	
2	Body	AISI 304	
3	Flange	ASTM A 105	
4	Gasket	CAF	X
5	Seat	AISI 410	X
6	Valve	AISI 410	X
7	Lever	AISI 304	X
8	Bucket	AISI 304	X
9	Tube	AISI 304	
10	Bolts	ASTM A 193 B 7	
11	Flange	ASTM A 105	

Flanged													
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	110	148	128	102	2.5	176	4.1	170	3.9	190	4.1	200	4.3
¾"	110	148	128	102	2.5	180	4.8	180	4.1	200	5.3	210	5.7
1"	172	148	128	102	3	190	5.7	221	5.7	234	7	247	8.2



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 horizontal position, with the trap installed below the drain point in order to form and preservate the internal water seal.

HOW TO SERVICE

Remove cover (1) by undoing bolts (10) un hook the bucket (8) from the valve lever (7) unscrew the seat (5) from the cover (1) screw in rhe new one, hooking the bucket back (8).

How to order: i.e. IB A105 26 ½" 300 RF

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