DOUGLAS ITALIA S.P.A.

INVERTED BUCKET STEAM TRAPS

IFS 360° CONNECTIONS

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.

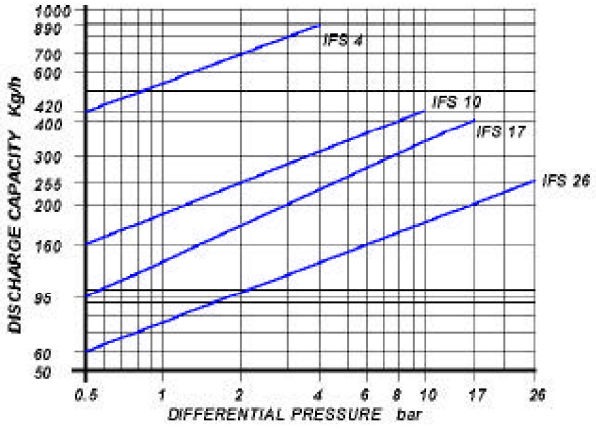
MAIN FEATURES

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		500°C
PMO: max working pressure		26 bar
TMO: max working temperature		380°C
Max. Differential pressure	(IFS 4)	4 bar
Max. Differential pressure	(IFS 10)	10 bar
Max. Differential pressure	(IFS 17)	17 bar
Max. Differential pressure	(IFS 26)	26 bar

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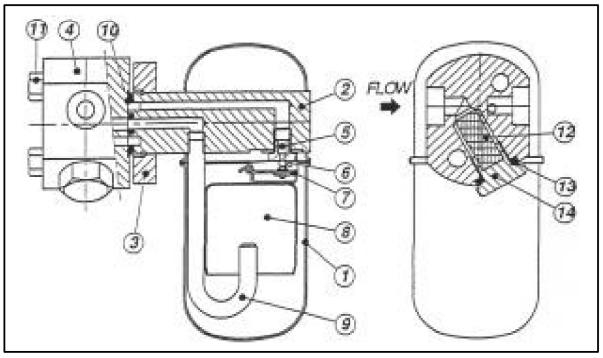
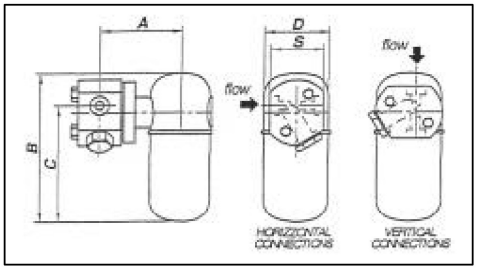


POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	AISI 304	
2	Cover	ASTM A182 F304	
3	Flange	ASTM A182 F304	
4	Connector	ASTM A105	
5	Seat	AISI 410	X
6	Valve	AISI 410	X
7	Lever	AISI 304	X
8	Bucket	AISI 304	X
9	Tube	AISI 304	
10	Gasket	316 / GRAPHITE	X
11	Bolts	ASTM A193 B7	
12	Screen	AISI 304	X
13	Screen gasket	316 / GRAPHITE	X
14	Strainer cap	ASTM A105	

Flanged														
Size (inches)	S	A	B	C	D	Weight (Kg)	UNI-DIN PN25-40		150#		300#		600#	
							SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	60	101	174	129	73	3.5	130	4.4	120	4.4	140	4.6	150	4.8
¾"	68	101	174	129	73	4.0	138	4.6	138	4.6	158	5.8	168	6.2
1"	68	103	174	129	73	4.5	138	6	148	6	158	7.2	178	7.6



INSTALLATION

The pipeline can be installed in either horizontal or vertical pipework. The maiting flange on the IFS trap is free rotate 360°. The steam trap should be fitted with the cover above the centre line of the trap. Ensure inner and outher gaskets are in place and secure trap to pipeline connector using two connectors screws.

HOW TO SERVICE

To service the strainer , unscrew cap (14), withdraw screen (12) and clean or replace it. Screwing the cap back in place, always a fit new gasket (13)

How to order: i.e. IFS 10 ½" NPT

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OFFICIAL WEB SITE: www.douglas-italia.com