



UNITED
Engineering Corporation

Inverted Bucket Steam Trap



UKL Inverted Bucket Steam Trap.

This Trap works on the Principle of Buoyancy. The inverted Bucket trap effectively discharges condensate at temperature close to Steam temperatures, by distinguishing between the Densities of Steam and Condensate at temperatures close to Steam temperatures, by distinguishing between the Densities of Steam and Condensate. Suitable for lifting condensate is unaffected by back pressure or dirt or foreign matter in the condensate.

The Bucket remains buoyant in presence of steam thereby closing the valve and blocking Steam, and sinks when filled with Condensate opening the valve and letting out condensate.

The Inverted Bucket Trap 'HORIZONTAL TYPE' is available in :-

Material of Construction : - Cast Iron / Cast Steel / Cast Stainless Steel for Body and Cover with all SS Internals

End Connections :- Screwed / Weld and Flanged Ends to DIN / ASA / ASA 300

Sizes : - 15mm 25mm
Rating - Pressure of 42 BAR
Temperature 425 Deg. C. Max.



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Quality Solutions for Flow Control Requirements

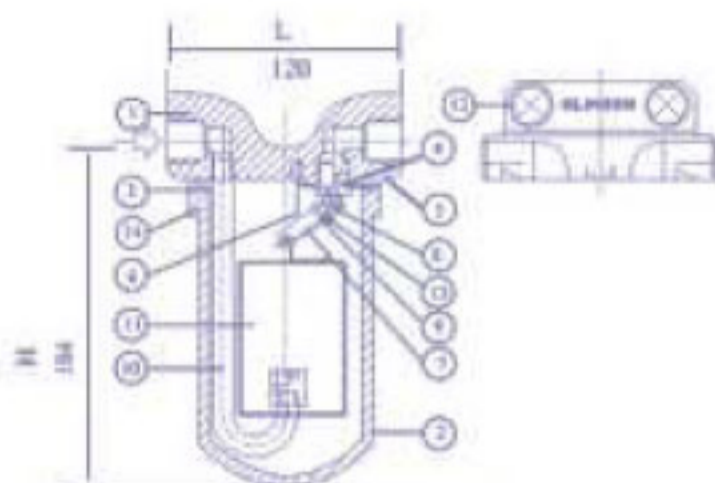
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Inverted Bucket steam trap (IBT)



Material and part list

1	Cover	CI / CS / SS
2	Body	CI / CS / SS
3	Gasket	Klinger Standard
4	Seat	AISI 420
5	Disk Spring	AISI 304
6	Valve Guide Plate	AISI 304
7	Lever	AISI 304
8	Spring	AISI 304
9	Valve	AISI 420
10	Inlet Pipe	AISI 304
11	Bucket	AISI 304
12	Cover Stud	ASTMA 193 Grade B7
13	Washer	AISI 304
14	Identification Plate	Anodised Aluminium

CI - GG20
 CS - ASTM A 216 Gr WCB
 SS - ATMA A 351Gr C18
 Limiting conditions :
 PMA = 50 bar @ 120 °C
 PMO = 40 bar
 TMA = 425 °C
IBR ON REQUEST

Sizing

To select and size a steam trap the following factors must be considered:

Maximum operating pressure, and maximum differential pressure, back pressure, condensate lift height, etc. Maximum quantity of condensate to be discharged under normal operating conditions.

Safety factor for the flow capacity, during the critical start up phase :

With continuous flow use a Factor of 1.5-2

With non continuous flow Use a factor of 2-25

	IBT	IBT	IBT
	mm 15	20	25
Connections	Inch 1/2	3/4	1
BSP / BSPT/ NPT/ SW / L	120	120	120
Flanges DIN PN 40	229	239	248
Flanges ANSI 150	F 219.5	229	236
Flanges ANSI 300		229	239

* H = 175 mm

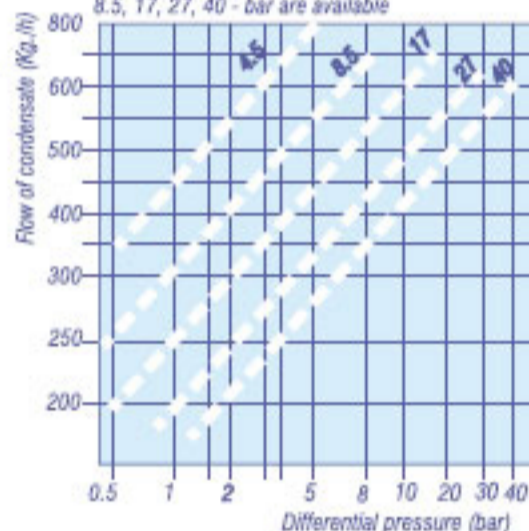
* F = Overall Length (Flanged)

* All Dimensions in mm.

Flow Capacity : 25 mm (1").

Flow capacities for 15mm & 20mm are almost similar to that of 25mm

Models suitable for Differential Pressures P-4.5, 8.5, 17, 27, 40 - bar are available



Also available :

- Piston Valves Strainers - ' T ' Type
- STEAM TRAPS - Thermodynamic, Thermostatic, IBT, Ball Float Traps, / ' Y ' Type STRAINERS / Forged Piston Valve, Bellow Sealed Valve / LEVEL GAUGE - Reflex Transparent, Bicolor



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