

## UKL THERMOSTATIC STEAM TRAP :-

The enthalpy in the steam basically has two components : The Latent heat and the Sensible heat. Whereas condensate has only sensible heat. This condensate has to be removed as soon as it is formed, because it hinders to efficient heat transfer as well as leads to water hammer phenomenon as it is hot water (having more Specific Gravity) that moves with high velocity of steam (8 to 10 times higher than water), carrying enough momentum to rupture pipes and which is damaging to the plant pipelines as well as piping equipments. Hence, need to remove condensate from steam and trap steam. This is done by steam trap.

UKL Thermostatic trap has a unique Simple design, Minimum number of components and where the Bellow is enclosed and protected thus ensuring long life for the Bellows.

These traps used largely on Tracing lines or Tank Farms where steam is supplied to maintain Temp / viscosity of the Oil.

This trap works on the difference in Enthalpy of Steam and Condensate. Condensate temperature is used to open the trap by contracting the capsule, discharging condensate in low temperature. A capsule attached to a Bellow filled with precise amount of a Hydrocarbon, Expands and contracts in response to the rising/lowering of Enthalpy. Thereby shutting and opening the valve. Condensate has lower Enthalpy, causing the bellow to contract and the seat to retract which opens the valve and allow discharge of condensate and expands as soon as it comes in contact of Hot steam, causing seat to close the valve.

### MATERIAL OF CONSTRUCTION:

ASTMA 105

### SIZES AVAILABLE:-

15 NB, 20 NB and 25 NB

### END CONNECTIONS:

Threaded to NPT, BSP and BSPT  
Socket Weld to ASME B 16.11  
Flanged - # 150/#300/#600

### INSTALLATION:-

Preferably in horizontal position.

### OPTIONAL:-

IBR/Non-IBR  
Blow down cock  
Available in SS  
Use as Air Vent



### OPERATING CONDITIONS :

Sub cooling Temp Available : 10-15 °C

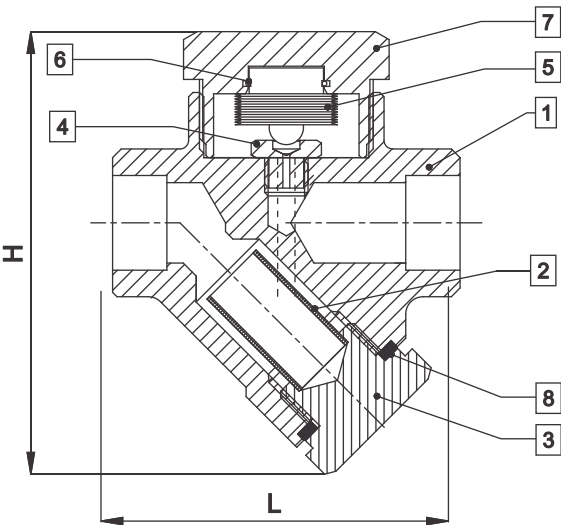
Size (NB)	End Conn	BSP	NPT	SW
15,20,25	Press. Kg/cm <sup>2</sup>	12.5	32	32
	Temp °C	260	400	400

### Spares Available:-

Capsule  
Strainer  
SPW Gasket

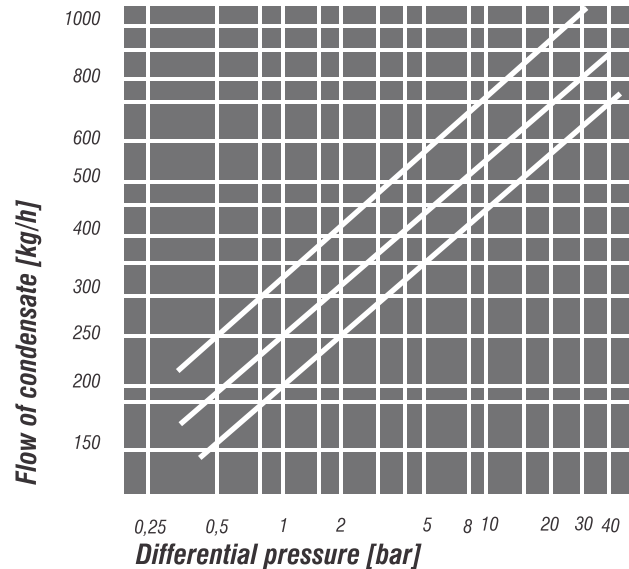
# Thermostatic Steam Trap with inbuilt Strainer UTST

## BILL OF MATERIAL :-



No.	PART NAME	MATERIAL	MATERIAL CODE
1	Body	Forged Steel	ASTM A105
2	Filter (Perforated Sheet)	Stainless Steel	AISI 304
3	Filter Cap	Forged Steel	ASTM A105
4	Valve Seat	Stainless Steel	AISI 304
5	Bellows	Std.	---
6	E - Ring	Stainless Steel	AISI 304
7	Cover	Forged Steel	ASTM A105
8	Spiral Wound Gasket	Stainless Steel	S. S. With Graphite Filler

Dimensions (mm)				
Connections		15 NB	20 NB	25 NB
NPT, BSP, SW	L	80	80	90
	H	107	107	123
Flanges #150	L	212	222	226
Flanges #300	L	226	242	244
Flanges #600	L	238	254	258
Weight (kg)		1.0	1.0	1.2



To clean or replace strainer remove strainer cap. Remove strainer screen. Fit new or cleaned strainer screen into recess in cap. A new gasket should be fitted and the cap screwed into the body.

### Other Products :



Cast / Forged Steel Piston Valves, Bellow seal valves, High Pressure valves (Gate/Globe), Strainers – “Y” Type, ITVS Steam Traps (Thermodynamic, Thermostatic, Ball Float Traps and IBT), Pressure Reducing Station, Condensate Recovery Products, Level Gauges (Reflex, Transparent, Bicolor), Sight Glass, Hot Water Generation System, Safety and Relief Valves.

**FSD Products :** Compressed Asbestos / Non Asbestos Fiber Sheeting / Cut Gaskets, Spiral Wound Gaskets / Gland Packing



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