

### UKL Bi-metallic 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 make Bi-metallic steam traps are equipped with corrosion resistant regulator unaffected by water hammer and superheat. The cover features an external adjustment device that can be utilized while in the operation, independent seal and cone valve continues discharge. When the temperature starts to rise the upper thermo-state will expand producing the progressive closure of the valve. When the temperature decreases the lower thermo-state opens the valve adding pressure balancing feature. The cone valve is placed on upper stream far from the flash steam zone resulting in long life and reduces maintenance costs.

#### ADVANTAGES:-

- Innovative Technology
- Autonomous Operation
- Online External Adjustment
- Reduction in operation costs
- Reduction in maintenance costs
- Reliability, Balanced Pressure Design
- Integral strainer

#### MATERIAL OF CONSTRUCTION :-

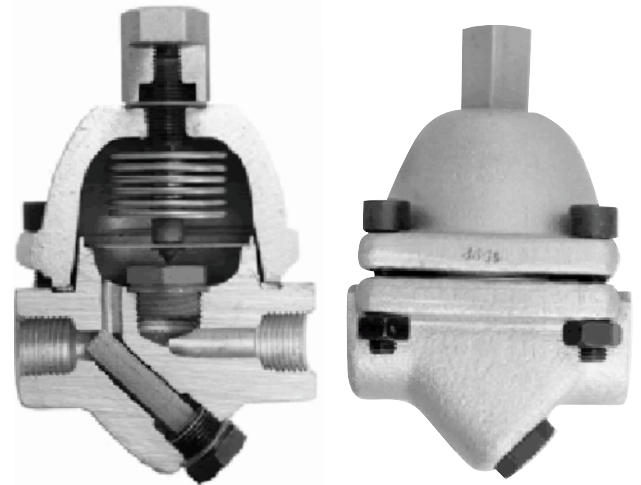
UG25/UT25 :- ASTM A 105  
 UG45Ti :- ASTM A 105  
 UP45Ti :- ASTM A 105  
 Special material available on request.

#### SIZES AVAILABLE:-

15 NB, 20 NB and 25 NB

#### OPERATING CONDITIONS :

Model	PMO	TMO	Max Diff. Pressure
UT25 and UG25	25 bar(g)	400 °C	25 bar(g)
UP45Ti and UG45Ti	45 bar(g)	400 °C	42 bar(g)



#### BI METALLIC TRAP With SMART WATCH

UKL Bi Metallic Trap is compactable with Patented technology for online monitoring of steam traps know as SMART WATCH.

#### FEATURES :-

- Patented Technology
- Microprocessor based monitoring device.
- High network integration capacity
- Monitoring of 4 parameters with integrated sensors.
- Simple cabling & wiring with 12 VDC supply
- RS 485 networking over a range of 1200 m
- Certified for intrinsic safety requirements
- Variety of Alarm Modes

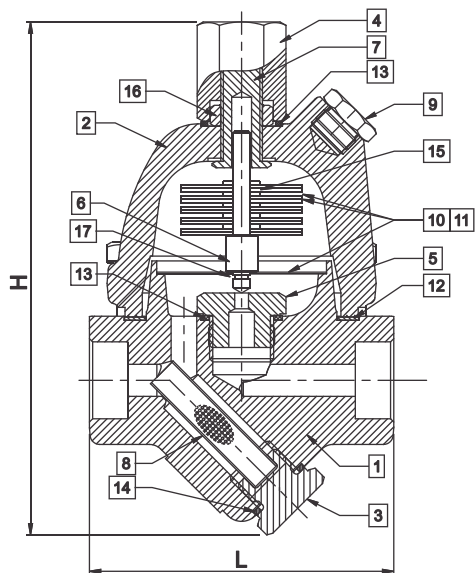
#### END CONNECTIONS:

- Socket Weld as per ASME B 16.11
- Flanged End Connections #150/#300
- Threaded to BSP, NPT and BSPT

#### OPTIONAL:-

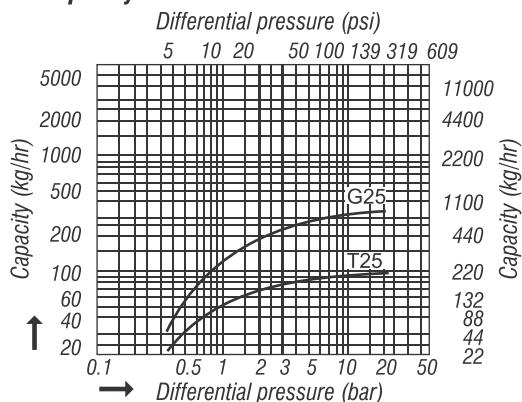
- IBR/Non-IBR
- Suitable for online steam trap monitoring
- Compactable with UITVS
- Blow Down

**Bi-metallic Thermostatic Steam Trap**  
**UG25 / UT25 / UP45Ti / UG45Ti**



Sr.	Size	L	H
1	15 NB	95.00	160.00
2	20 NB	95.00	160.00
3	25 NB	160.00	160.00

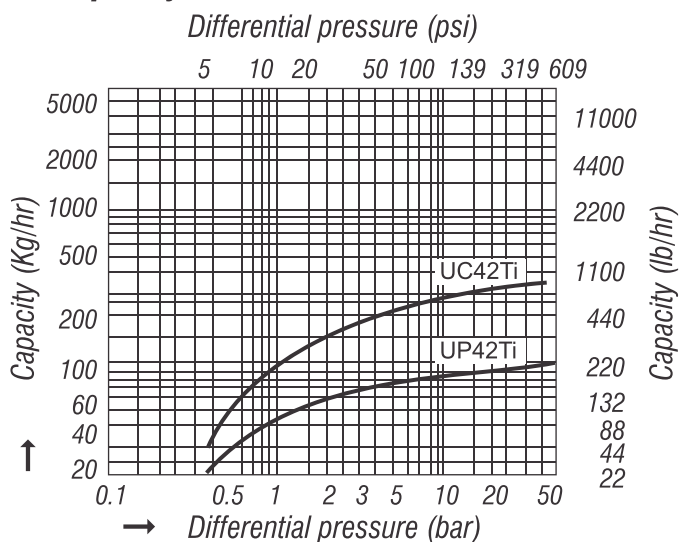
**Capacity Curves for Model Ut25 & UG25**



**BILL OF MATERIAL:-**

No.	PART NAME	MATERIAL	MATERIAL CODE
1	Body	Carbon Steel	ASTM A 105
2	Cover	Carbon Steel	ASTM A 105
3	Strainer Cap	Carbon Steel	ASTM A 105
4	Cver Nut	Stainless Steel	AISI 304 / AISI 316
5	Valve Seat	Stainless Steel	AISI 304 / AISI 316
6	Stem	Stainless Steel	AISI 304 / AISI 316
7	Stem Guide	Carbon Steel	ASTM A 105
8	Strainer	Stainless Steel	AISI 304
9	Cover Plug	Brass / C.S. / S.S.	---
10	Bi-Metallic	----	Klingr Standard Set
11	Controller Plates	----	Graphite / CAF / Non CAF.
12	Body Gasket	---	---
13	Valve Seat Gasket	Copper	---
14	Strainer Cap Gasket	Copper	---
15	Plain Washer	Stainless Steel	AISI 304 / AISI 316
16	Nut (1/4" BSP)	Stainless Steel	AISI 304 / AISI 316
17	Circlip	Carbon Steel	---

**Capacity Curves for UP45Ti & UG45Ti**



**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 Sheetting / Cut Gaskets, Spiral Wound Gaskets / Gland Packing



**UNI KLINGER LIMITED**

A joint venture of the Neterwala group of companies and KLINGER AG, Switzerland.

Central Sales Office & Pune Branch: SC1, 5th Fl., Kohinoor Est. Mumbai-Pune Highway, Khadki, Pune-411 003.

Tel.: +91-20-4102 3000 Fax.: (020) 4102 3001

e-mail: salescso@uniklinger.com, salespune@uniklinger.com, Website: www.uniklinger.com

Factory:

C-37, M.I.D.C., Ahmednagar – 414 111, Maharashtra, Tel.: 0241 – 2777223 / 2777512

Fax: 0241 – 2777294, E-mail: fcdworks@uniklinger.com

**Branch Offices:**

**Baroda** : 102, Oftel Towers-II 1st Floor, R.C. Dutt Rd, Baroda-390 005, Tel.: 91-0265-2312343 / 2340660, Fax.: 91-265-2341419. E-mail: salesbar@uniklinger.com

**Chennai** : East Coast Centre, 5th Floor, 553, Mount Rd, Teyanampet, Chennai - 600 018, Tel.: 91 - 44 - 24345707. Fax.: 91 - 44 - 24343960. E-mail: saleschen@uniklinger.com

**Kolkata** : 9, Chitrakoot, 8th Floor, 230 A, AJC Bose Rd, Kolkatta-700 020, Tel.: 91-33-22872510, Fax.: 91-33-22876494. E-mail: salescal@uniklinger.com

**Mumbai** : 714, Ecstasy, City of Joy Complex, J.S.D. Rd, Mulund (W) Mumbai - 400080, Tel.: 91-22-25440463, Fax.: 91-22-25440463. E-mail: salesmum@uniklinger.com

**New Delhi** : 1003, 10th Flr., Indra Prakash Bldg. 21, Barakhamba Rd, Connaught Place New Delhi-110001, Tel.: 91-11-41658767, Fax.: 91-11-41658768. E-mail: salesdel@uniklinger.com

In view of technical progress designs and dimensions are subject to change without notice.

