



Description:

Bi-Thermostatic bimetallic steam trap, with corrosion resistant regulator unaffected by waterhammer and superheated steam. Balanced pressure valve. Independent seat and cone valve, and external adjustment device while runningfor temperature and flow discharge.

The fact that both, valve plug andvalve seat, be independent and located in the low flow discharge area, reduces erosion and extends the life of the trap. The condensate discharge is controlled by bimetallic thermostat, continuously adjusting to changes of condensate flow. Automatic air venting. Installation in any position. The independence of the cone valve and seat reducesdramatically the costs of its spare parts, joined to the fact that it has an external adjustment device while running, makesan extremely low maintenance cost steam trap.

Operation:

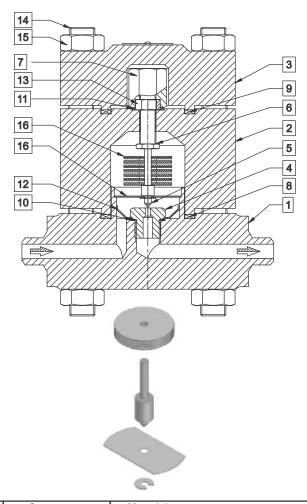
During the start-up, the condensate is cold and the bimetals are flat. When the temperature starts to rise the bimetals will expand producing the progressive closure of the valve plug. In this way the steam trap is able to adjust itself to changing conditions because if the pressure rises, the higher pressure acts on the valve plug but at the same time the higher temperature will act on the bimetals. Its quick automatic air venting prevents air binding. The valve plug is placed on the upper stream far from the flash steam zone, this avoids erosion and waste, contributes to a long effective life and reduces maintenance costs.

Maximum operating conditions:

Maximum operating pressure: 215 barMaximum temperature: 550 °CMaximum differential pressure: 215 bar

End Connections:

Butt Weld : ½", ¾", 1"
Socket Weld : ½", ¾", 1"
Flanges DIN PN 160 : DN 15,20,25
Flanges ANSI 600/900/1500/2500#
Raised Face : ½", ¾", 1"
Special connections on demand.



	Component	Material	
1	Body	ASTM A 182 Gr.F91	
2	Cover	ASTM A 182 Gr.F91	
3	Safety Cap	ASTM A 182 Gr.F91	
4	Valve Seat	AISI 420	
5	Valve Plug	AISI 440B	
6	PlugGuide	AISI 420	
7	CoverNut	ASTM A 182 Gr.F91	
8	BodyGasket	AISI347 (Octagonal Ring Gasket) /AISI304SPW + GraphiteFiller	
9	CoverGasket	AISI347 (Octagonal Ring Gasket) /AISI304 SPW + GraphiteFiller	
10	V. SeatGasket	Soft Nickel	
11	C. NutGasket	Soft Nickel	
12	StrainerScreen	AISI 304	
13	Locknut	AISI 304	
14	Stud	ASTM A 193 Gr.B16	
15	Nut	ASTM A 194 Gr.7	
16	Bimetal plates	38/7NiCr ,19/7NiCr	

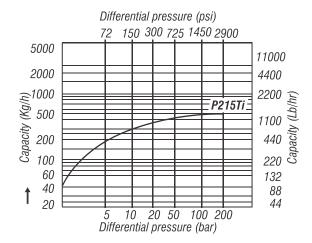


HIGH PRESSURE BI-METALLIC STEAM TRAP P215Ti

Other characteristics:

This type of steam trap allows can be, continuously and remotely, monitored by SmartWatchWeb system in order to detect anomalies during operation, such as the possibility of appearance of external or internal leak, correct condensate discharge temperature in order to improve the energy efficiency of the installation, pressure and back pressure problems.

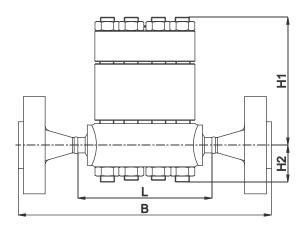
DN (pulg)	1/2"	3/4"	1"
H1 (mm)	122	122	122
H2 (mm)	27	27	27
L (mm)	200	200	200
B (mm)	##	##	##



Capacities given are continuous discharge capacities of hot condensate. The cold water capacity at start-up condition will be 2.5 of the hot condensate capacity.

Dimensions: ## Total length may vary according to type and rating of flange.

Approximate weight (without flanges): 28 Kg.



External adjustment device:

With its external adjustment device, the user can easily modify the conditions of evacuation of condensate. To do this, simply remove the safety cap (3), cover nut (7), loosen the lock nut (13) and turn as necessary the plug guide (6), up to get the required condensate flow or temperature (Bi-Therm qualified personnel adjusts every steam trap according to its operation conditions). Once adjusted, fix the lock nut (13) with soft pressure and place back the cover nut (7), safety cap (3), fix tightly to achieve the total sealing. If sealing problems through the gasket are observed, replace it with an original new one.

Spareparts:

- Valve seat
- Valve plug
- Valve seat gasket
- Body gasket
- Cover gasket
- Cover nut gasket
- Strainer screen
- Set of bimetal plates

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

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



UNI KLINGER LIMITED

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





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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 Released Pressure Posice
- Reliability, Balanced Pressure Design
- Integral strainer

MATERIAL OF CONSTRUCTION:-

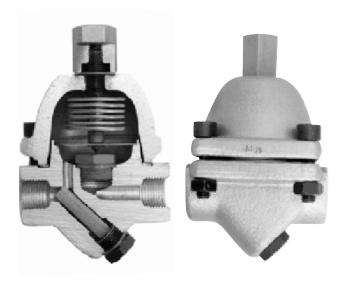
UG25/UT25 :- ASTM A 105 UG45Ti :- ASTM A 105 UP45Ti :- ASTM A 105 Special material available on request.

SIZES AVAILABLE:-

15 NB, 20 NB and 25 NB

OPERATING CONDITIONS:

Model	РМО	ТМО	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 V DC 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

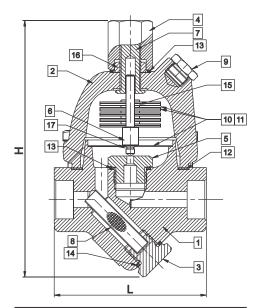
OPTIONAL:-

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

Blow Down

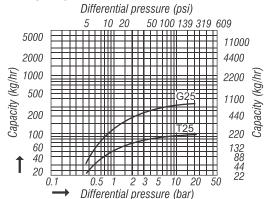


Bi-metallic Thermostatic Steam Trap UG25 / UT25 / UP45Ti / UG45Ti



Sr.	Size	L	Н
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

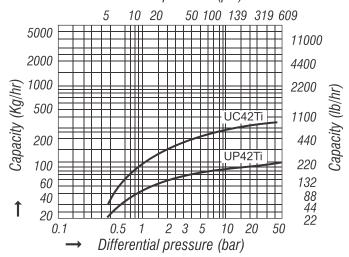


BILL OF MATERIAL:-

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 11	Bi-Metallic Controller Plates		Klingr Standard Set
12	Body Gasket		Graphite / CAF / Non CAF.
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

Differential pressure (psi)



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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The fact that both cone valve and seat be independent and located in allow flow discharge area is controlled by Bimetallic thermostat, continuously adjusting to changes of condensate flow. Automatic air venting. Installation in any position. The independence of the cone valve and seat reduces dramatically the costs of its spare parts joined to the fact that it has an external adjustment device while running makes an extremely low maintenance cost steam trap.

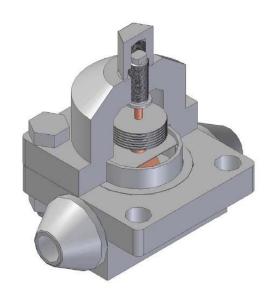
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MATERIAL OF CONSTRUCTION:-

UP64 Ti :- ASTM A 182 F11 UP110Ti :- ASTM A 182 F11

OPERATING CONDITIONS:-

Model	PMO	TMO	Max Diff. Pressure
UP64 Ti	928 psi	977 °F	928 psi
UP110Ti	1595 psi	977 °F	1595 psi



SIZES AVAILABLE:-

1/2", 3/4", and 1"

END CONNECTIONS:

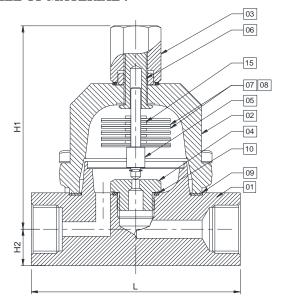
Butt Weld as per ASME B 16.25 Socket Weld as per ASME B 16.11 Flanged End Connections #600/#900/#1500

OPTIONAL:-

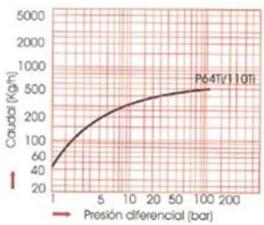
IBR/Non-IBR



BILL OF MATERIAL:-



FLOW CAPACITIES:



Capacities given are continuous discharge capacities of hot condensate. The cold water capacity at start-up condition will be 2.5 of the hot condensate capacity.

No.	PART NAME	MATERIAL	MATERIAL CODE
1	Body	Carbon Steel	ASTM A 182 F11 C1
			3
2	Cover	Carbon Steel	ASTM A 182 F11 C1
			3
3	Cver Nut	Stainless Steel	AISI 304 / AISI 316
4	Valve Seat	Stainless Steel	AISI 420
5	Stem	Stainless Steel	AISI 440 B
6	Stem Guide	Carbon Steel	AISI 420
7	Bi- Metallic		28/7NiCr-19/7NiCr
8	Controller Plates		
9	Body Gasket	Graphite / CAF	
		/ Non CAF.	
10	Valve Seat	Copper	
	Gasket		

DIMENSIONS (in)

Sr.	Size	L	H1	H2
1	1/2"	7.9	4.8	1.1
2	3/4"	7.9	4.8	1.1
3	1"	7.9	4.8	1.1

External Adjustment Device:-

With its external adjustment device, the user can easily modify the conditions of evacuation of condensate. To do this simply remove the top cap, loosen the lock nut and turn as necessary the adjustment screw, up to get the required condensate flow or temperature. Once adjusted, fix the safety nut with soft pressure and place back the top cap, fix tightly to achieve the total sealing. If sealing problems through the gasket are observed replace it with an original new one.

Other Products:



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