

UKL THERMODYNAMIC 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 main and trap steam. This is done by steam trap.

The thermodynamic traps separate condensate and steam based on velocity which in case of steam is higher than that of condensate. These are used mainly on drip lines of the main steam distribution line, platen presses and super heated steam lines to remove condensate.

Condensate pressure is used to open the trap by lifting the disc, discharging condensate in low pressure. Due to low pressure flashing of condensate takes place. High flash steam velocity (approximately 5 times of condensate) creates a low pressure zone below the disc. Accumulated flash steam force over the disc becomes greater than the incoming condensate pressure this leads to closure of the disc. Subsequently the flash steam condenses and the incoming higher pressure condensate pushes the disc opening the trap and thus the cycle continues.



MATERIAL OF CONSTRUCTION:

UTD55 : -ASTM A 743 Gr. CA40

UTD 55F : - AISI 420

SIZES AVAILABLE:-

UTD 55 :- 15NB and 20 NB

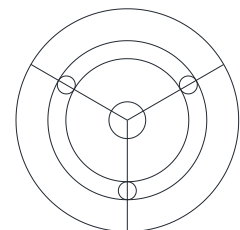
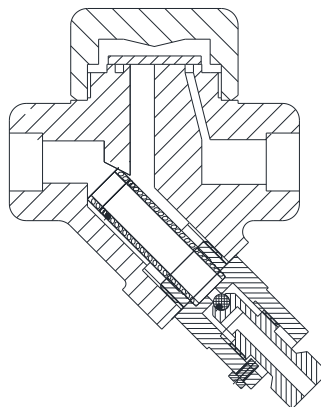
UTD 55 F :- 25 NB

END CONNECTIONS:

Threaded to NPT , BSP and BSPT

Socket Weld to ASME B 16.11

Flanged End- #150/#300/DIN



3 ORIFICE TOP VIEW

INSTALLATION:-

Preferably in horizontal position.

ON REQUEST:-

IBR/Non-IBR

Blow down cock

Isotub

Flanges weld on type

Single Orifice/Three orifice

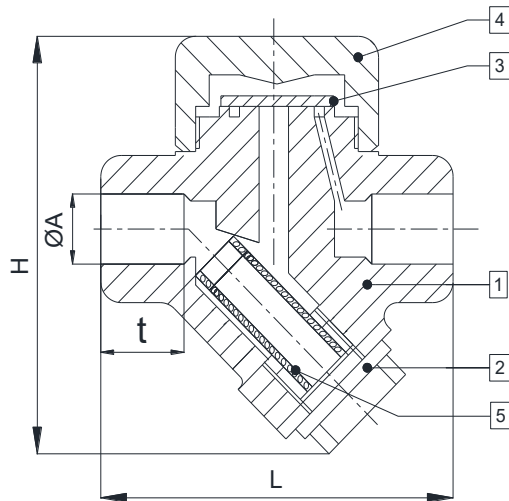
Compactable with UITVS

OPTIONAL BLOWDOWN COCK

OPERATING CONDITIONS

End Conn.		BSP	NPT	SW	FL 150	FL 300
Size (mm)	Press. Kg/cm ²	12.5	55	55	20	52
15,20,25	Temp ° C	260	454	454	425	425

BILL OF MATERIAL :-



Sr.	Part	Materials	
		UTD55	UTD55F
		15 and 20 NB	25 NB
1	Body	A743 Gr. CA 40	AISI 420
2	Filter Cap	A743 Gr. CA 40	AISI 420
3	Disc	A743 Gr. CA 40	AISI 420
4	Cover	A743 Gr. CA 40	AISI 420
5	Filter	AISI 304	AISI 304
6*	Blow down	SS	SS
* Parts are available on Request.			

Notations		Dimensions (mm)		
		15 NB	20 NB	25 NB
L		75	75	90
H		108	108	125
ØA	SW	21.80	27.2	33.90
	t	10	13	13
ØA		BSP / NPT / BSPT		
Weight (kg)		0.920	0.920	1.800

HOW TO SERVICE:

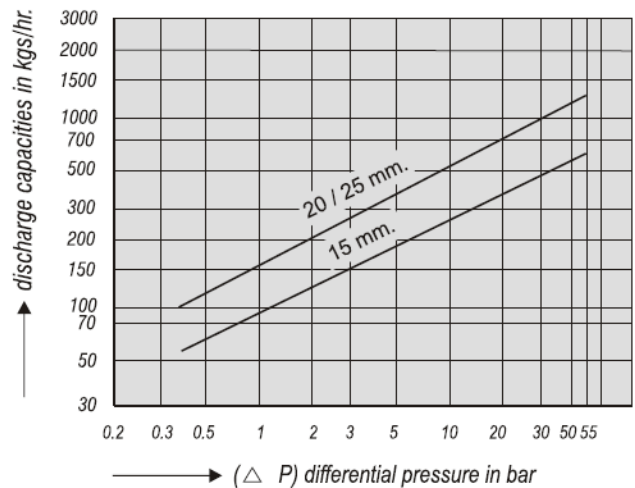
Unscrew the main bore cap using spanner. If the wear on the surface of disc and body is minor they can be refaced by lapping individually on a flat surface.

If the wear on the surface of body is major then seating surface must be ground and lapped. The total amount of metal removed in this way should not exceed 0.3mm. The disc, however may be replaced by a new one. While re-assembling suitable high temperature anti seize grease should be applied to threads. Screw the cover and tighten it with suitable torque. Ensure the disc is free by shaking the trap.

HOW TO CLEAN OR REPLACE FILTER.

Unscrew filter cap using spanner. Withdraw filter and clean. If damaged replace with new one.

FLOW CAPACITIES



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.

UKL®

UNI KLINGER LIMITED

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

In view of technical progress design and dimensions are subjected to change without notice.

Central Sales Office & Pune Branch : SC1, 5th Fl., Kohnoor Est. Mumbai-Pune Highway, Khadki, Pune-411 003. Tel.: +91-20-4102 3000 Fax.: (020) 4102 3001
e-mail : salesco@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 : fdworks@uniklinger.com

Branch Offices :

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Delhi : 321, Ansal Chamber-II, 6, Bhikaji Cama Place, New Delhi-110 066, Tel.: 91-11-41658767 / 91-11-26193847, Fax.: 91-11-41658768, E-mail : salesdel@uniklinger.com

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The thermodynamic traps separate condensate and steam based on velocity which in case of steam is higher than that of condensate. These are used mainly on drip lines of the main steam distribution line, platen presses and super heated steam lines to remove condensate.

Condensate pressure is used to open the trap by lifting the disc, discharging condensate in low pressure. Due to low pressure flashing of condensate takes place. High flash steam velocity (approximately 5 times of condensate) creates a low pressure zone below the disc. Accumulated flash steam force over the disc becomes greater than the incoming condensate pressure this leads to closure of the disc. Subsequently the flash steam condenses and the incoming higher pressure condensate pushes the disc opening the trap and thus the cycle continues.

The UTD 62 is a steam trap with integral strainer specifically designed to meet above application. An insulating cover can be fitted as a option on superheated steam mains.



MATERIAL OF CONSTRUCTION:

ASTM A 217 Gr. WC6

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 End- #600/#900 (On Request)

INSTALLATION:-

Preferably in horizontal position.

ON REQUEST:-

IBR/Non-IBR

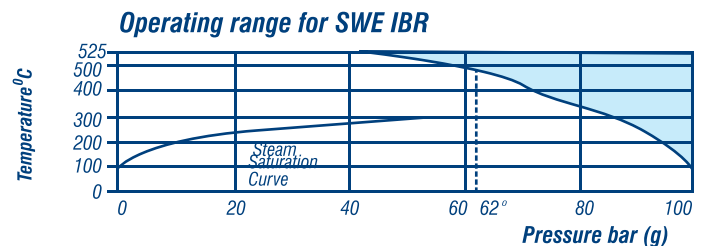
Isotub

Flanges weld on type

OPERATING CONDITIONS

End Conn.	BSPT / NPT / SW / BW
Max. Allowable Pressure	103 bar at 93 °C
Max Allowable Temperature	525 °C at 42.7 bar
Max. Operating Pressure	62 bar at 482 °C
Max. Operating Temperature	525 °C at 42.7 bar

Hydro Test Pressure :- 1.5 times design pressure



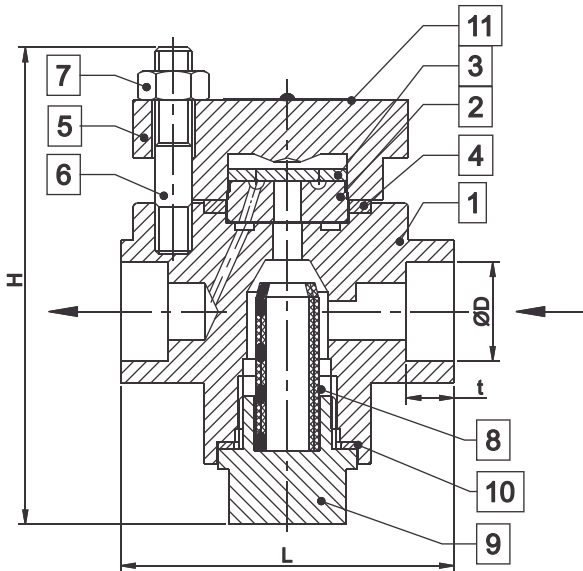
The product must not be used in this region.

*PMO - Max. operating pressure recommended

PMOB - Max. operating back pressure 80% of

upsteam pressure.

Thermodynamic Steam Trap UTD-62



Notations	Dimensions (mm)		
	15 NB	20 NB	25 NB
L	92	92	120
H	130	130	130
ØD	21.80	27.20	33.10
t	10	13	13
Weight(kg)	2.2	2.2	2.5

How to fit disc :-

Unscrew the four nuts and remove the top cover. Lift off the disc. Fit the new disc. Ensure that the seating surface is not unduly worn. Lapping is necessary for worn out seats. Re-assemble cover using a new gasket making sure that gasket faces are perfectly clean.

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.

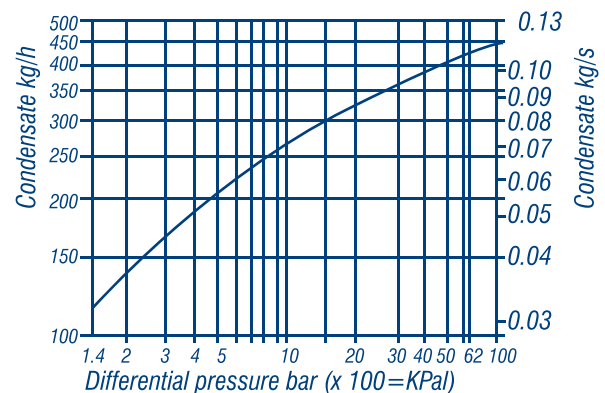
To replace cover studs after removing old cover studs fit new cover studs.

BILL OF MATERIAL :-

No.	PART NAME	MATERIAL	MATERIAL CODE
1	Body	Alloy Steel	ASTM A217 WC6
2#	Disc	Tool Steel	ASTM A 681 Gr D2
3	Seat	Tool Steel	ASTM A 681 Gr D2
4#	Gasket	Spiral Wound	Reinforced Exfoliated S.W. AISI304 With Graphite Filler
5	Top Cover	Alloy Steel	ASTM A217 WC6
6#	Stud	Alloy Steel	ASTM A 193 Gr B16
7#	Nut	Alloy Steel	ASTM A 194 Gr 8M
8#	Filter	Stainless Steel	AISI 304
9	Filter Cap	Alloy Steel	ASTM A217 WC6
10#	Gasket For Filter Cap	Spiral Wound	Reinforced Exfoliated S.W. AISI304 With Graphite Filler
11	Name Plate	Stainless Steel	AISI 304
12	Isotub (Optional)		

Available as spares

UTD-62 Flowchart :-



Note: Minimum Differential pressure for satisfactory operation 1.4 bar g with Positive Pressure and Discharge to atmosphere.

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



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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



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UTD 120 is a Thermodynamic Steam Trap manufactured in forged Alloy Steel construction. It is a very rugged design built for high pressure applications such as in power plants. Also used for superheated applications.

MATERIAL OF CONSTRUCTION:

ASTMA 182 Gr. F22

SIZES AVAILABLE:-

15 NB, 20 NB and 25 NB

END CONNECTIONS:

Socket Weld to ASME B 16.11 #6000

Butt weld end to suit SCH 160

Flanged End Connections On Request

Max Operating Back Pressure:-

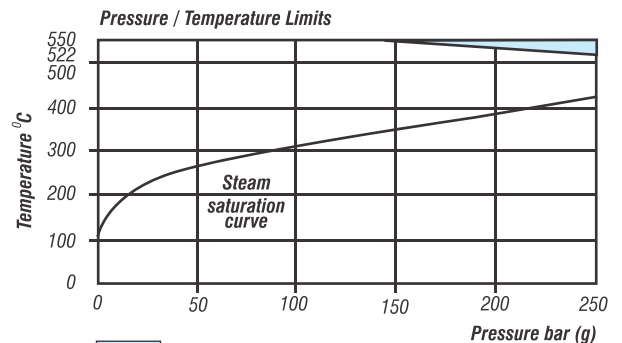
50% of the upstream pressure

Min Operating Pressure for satisfactory

Operation:- 8 bar

INSTALLATION:-

Preferably in horizontal position



The Product MUST NOT BE USED in this section
Note: if the product is used at pressures above 170 bar then a reduction in working life may be experienced

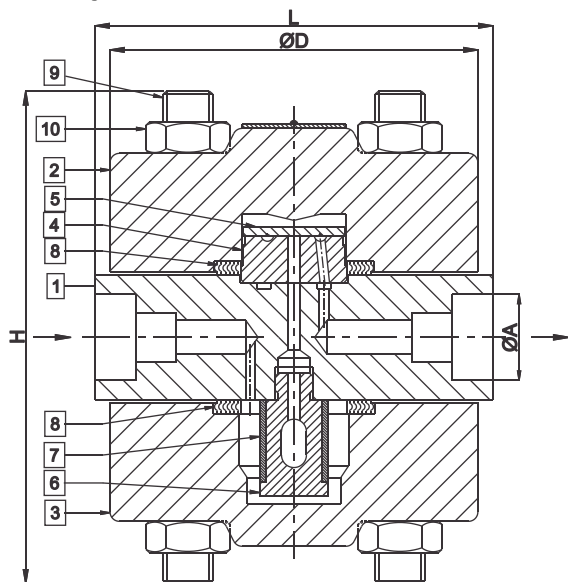
OPERATING CONDITIONS

Size (NB)	End Conn. →	SW	BW
15,20,25	Press. Kg/cm ²	255	255
	Temp °C	550	550

Hydro Test Pressure : 1.5 times design pressure

Thermodynamic Steam Trap

UTD 120



Notations	Dimensions (mm)		
	15 NB(BW)	20 NB(BW)	25 NB(BW)
L	158	158	265
H	158	158	158
ØD	118	118	118
ØA	21.80	27.20	33.90
Weight(kg)	10.5	10.5	11.0

How to fit disc :-

Unscrew the four nuts and remove the top cover. Lift off the disc. Fit the new disc. Ensure that the seating surface is not unduly worn. Lapping is necessary for worn out seats. Re- assemble cover using a new gasket making sure that gasket faces are perfectly clean.

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.

To replace cover studs after removing old cover studs fit new cover studs.

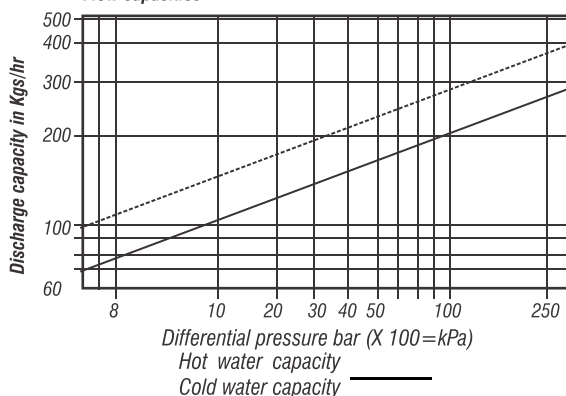
BILL OF MATERIAL :-

No.	PART NAME	MATERIAL	MATERIAL CODE
1	Body	Alloy Steel	ASTM A182 F22-CI3
2	Top Cover	Alloy Steel	ASTM A182 F22-CI3
3	Bottom Cover	Alloy Steel	ASTM A182 F22-CI3
4	Seat	Tool Steel	ASTM A 681 Gr D2
5#	Disc	Tool Steel	ASTM A 681 Gr D2
6	Filter Housing	Stainless Steel	AISI 316
7#	Filter	Stainless Steel	AISI 304
8#	Gasket	Spiral Wound	S.S. With Graphite Filler
9#	Stud	Alloy Steel	ASTM A 193 Gr B16
10#	Nut	Alloy Steel	ASTM A 194 Gr 4 / Gr7
# Available as Spares.			

Recommended Tightening Torques

Item	Part	or mm	Nm
9	Stud	M16	85-90
10	Nut	23A/F M16	160-180

Flow capacities



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



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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, Balanced Pressure Design
- Integral strainer

MATERIAL OF CONSTRUCTION :-

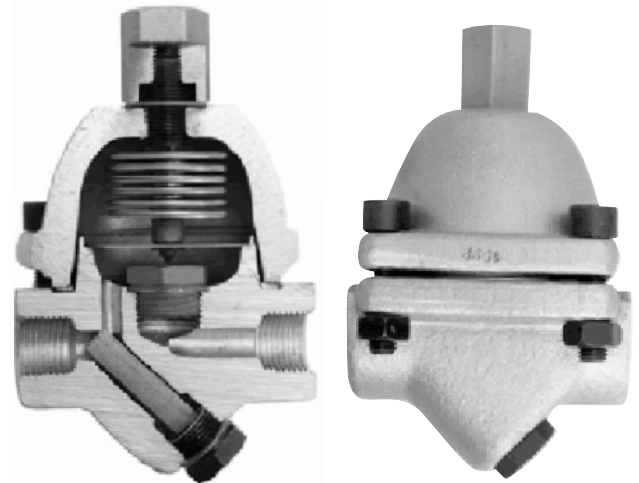
UG25/UT25 :- ASTM A 105
UG45Ti :- ASTM A 105
UP45Ti :- ASTM A 105
Special material available on request.

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 V DC supply
RS 485 networking over a range of 1200 m
Certified for intrinsic safety requirements
Variety of Alarm Modes

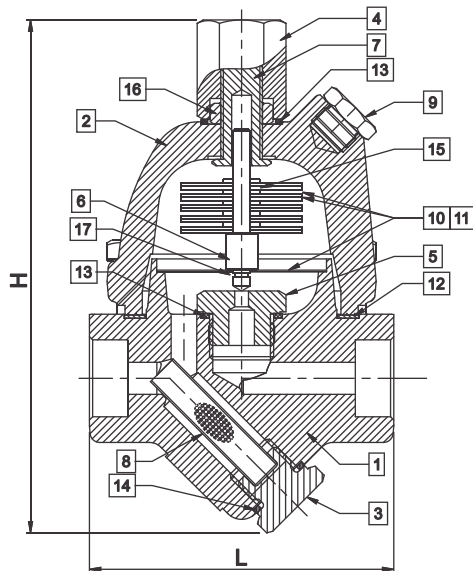
END CONNECTIONS:

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

OPTIONAL:-

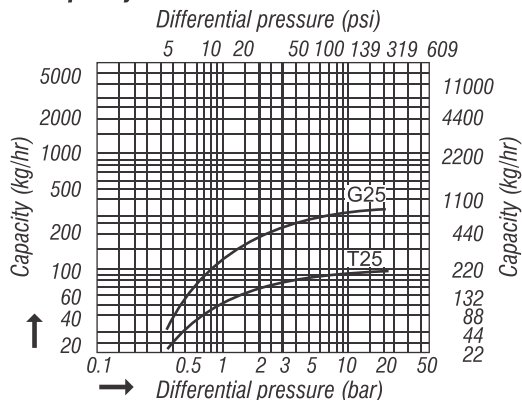
IBR/Non-IBR
Suitable for online steam trap monitoring
Compactable with UITVS
Blow Down

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



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

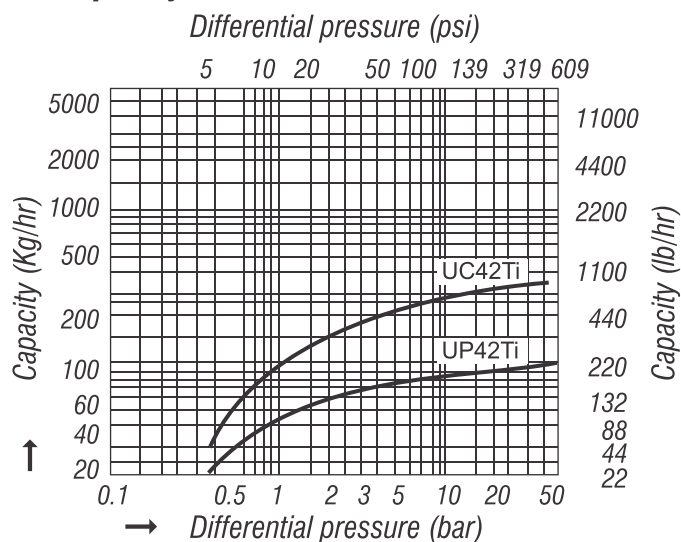
Capacity Curves for Model Ut25 & UG25



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 :



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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.



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 :-

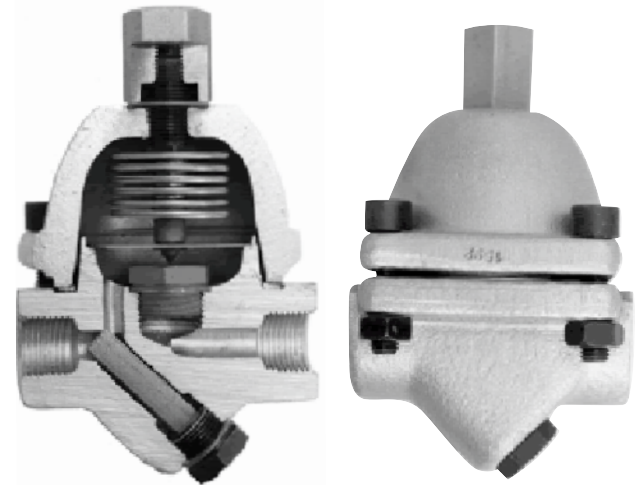
UG25/UT25 :- ASTM A 105
UG45Ti :- ASTM A 105
UP45Ti :- ASTM A 105
Special material available on request.

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 V DC supply
RS 485 networking over a range of 1200 m
Certified for intrinsic safety requirements
Variety of Alarm Modes

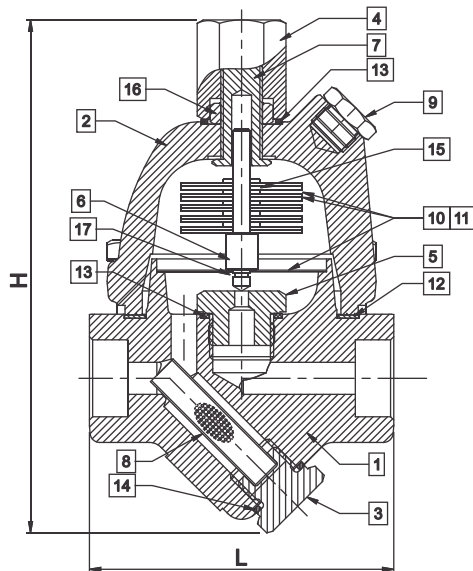
END CONNECTIONS:

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

OPTIONAL:-

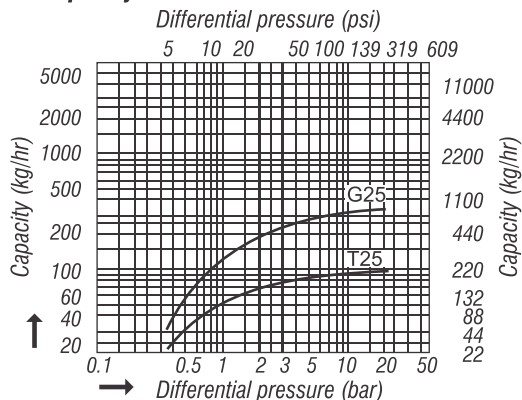
IBR/Non-IBR
Suitable for online steam trap monitoring
Compatible with UITS
Blow Down

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

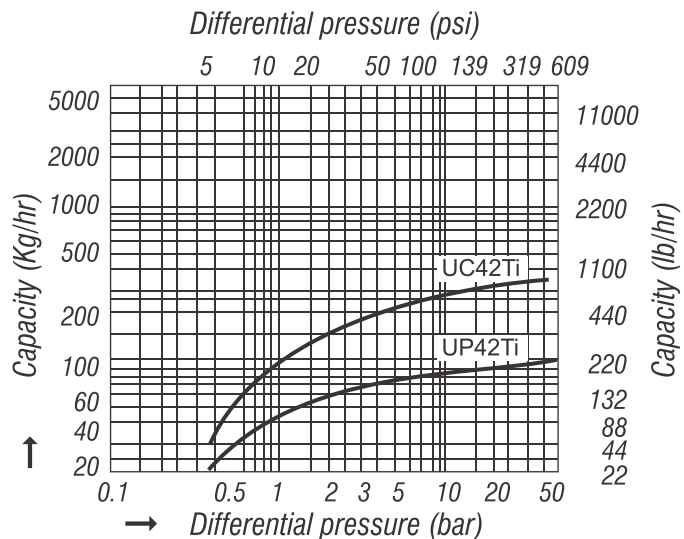
Capacity Curves for Model Ut25 & UG25



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		
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



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

UKL®

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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

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

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

Factory :

Branch Offices :

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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.

The fact that both cone valve and seat be independent and located in allow flow discharge area is controlled by Bi-metallic 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.

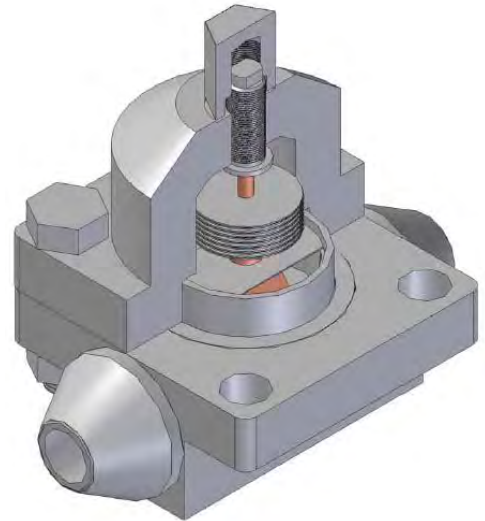
During the start-up, the condensate is cold and the bimetals are flat. When the temperature starts to rise the bimetals will expand producing the progressive closure of the valve. In this way the steam trap is able to adjust itself to changing conditions because if the pressure rises the higher pressure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

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:-

½", ¾", and 1"

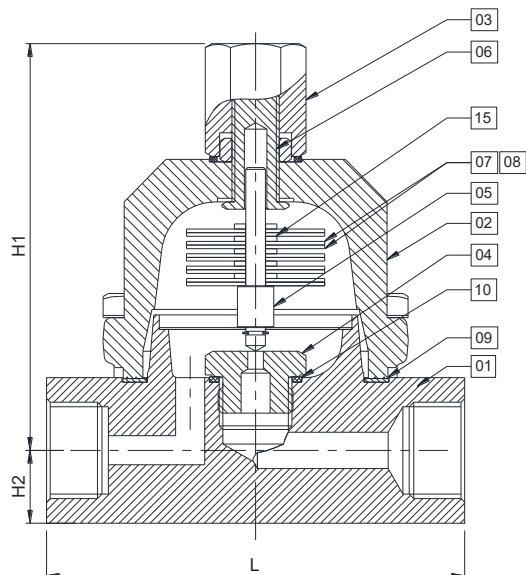
END CONNECTIONS:

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 :-

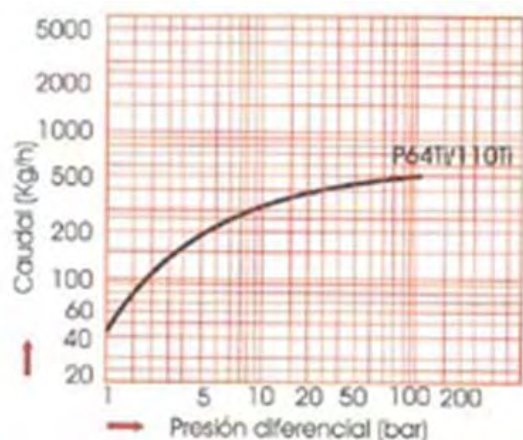


No.	PART NAME	MATERIAL	MATERIAL CODE
1	Body	Carbon Steel	ASTM A 182 F11 Cl 3
2	Cover	Carbon Steel	ASTM A 182 F11 Cl 3
3	Cver Nut	Stainless Steel	AISI 304 / AISI 316
4	Valve Seat	Stainless Steel	AISI 420
5	Stem	Stainless Steel	AISI 440 B
6	Stem Guide	Carbon Steel	AISI 420
7	Bi- Metallic	----	28/7NiCr-19/7NiCr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

DIMENSIONS (in)

Sr.	Size	L	H1	H2
1	½"	7.9	4.8	1.1
2	¾"	7.9	4.8	1.1
3	1"	7.9	4.8	1.1

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.

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 :



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.

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Delhi : 321, Ansal Chamber-II, 6, Bhikaji Cama Place, New Delhi-110 066, Tel.: 91-11-41658767 / 91-11-26193847, Fax.: 91-11-41658768. E-mail : salesdel@uniklinger.com

UKL BALL FLOAT TYPE 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 main and trap steam. This is done by steam trap.

UKL Ball Float Trap discharge condensate near to steam saturation temperature, which works on the principle of Buoyancy, [density difference of Water and Steam]. The rising condensate level elevates the Float open the valve and discharges the condensate. When the level of condensate drops, the float falls down and the valve close the trap.

It is commonly used for most process heating applications. Wherever steam is used for indirect heating application, the trap to be used must be of mechanical design. It is a continuous discharge type steam trap. This trap can handle very high condensate loads and the discharge will be proportional to the differential pressure across the trap. There may be other similar process applications where the heat load is small and a mechanical trap can handle small as well as fluctuating loads.

This trap is provided with two optional features called Steam Lock release (SLR) and Thermostatic Vent (TV). The SLR is a manual operation to release steam that may hamper free movement of the float on water level. The TV will ensure that air and such un dissolved gases will be automatically vented out when present in condensate.

MATERIAL OF CONSTRUCTION:

CAST IRON MODEL

UFT 14- CI – IS 210 FG260

CAST CARBON STEEL MODEL

UFT 20- CS- ASTM A216 Gr. WCB

SIZES AVAILABLE:-

UFT 14 Model: 15 NB, 20 NB and 25 NB

UFT 20 Model: 15 NB, 20 NB and 25 NB



END CONNECTIONS:

UFT-14 CAST IRON MODEL

Threaded to NPT , BSP and BSPT.

UFT-20 CAST CARBON STEEL MODEL :-

Threaded to NPT , BSP and BSPT.

Socket Weld to ASME B 16.11

Flanged - #150/#300/#600

INSTALLATION :-

Horizontal/Vertical position.

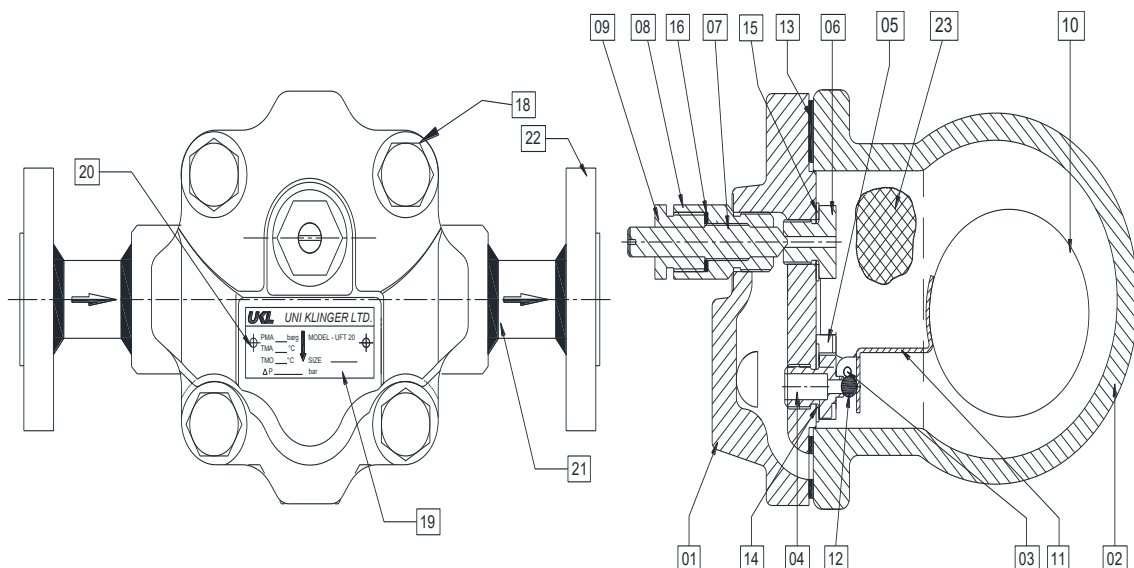
OPTIONAL:-

IBR/Non-IBR

With Thermostatic Air vent

Inbuilt Strainer

Ball Float Steam Trap **UFT-14/20 Size 15, 20 & 25 NB**

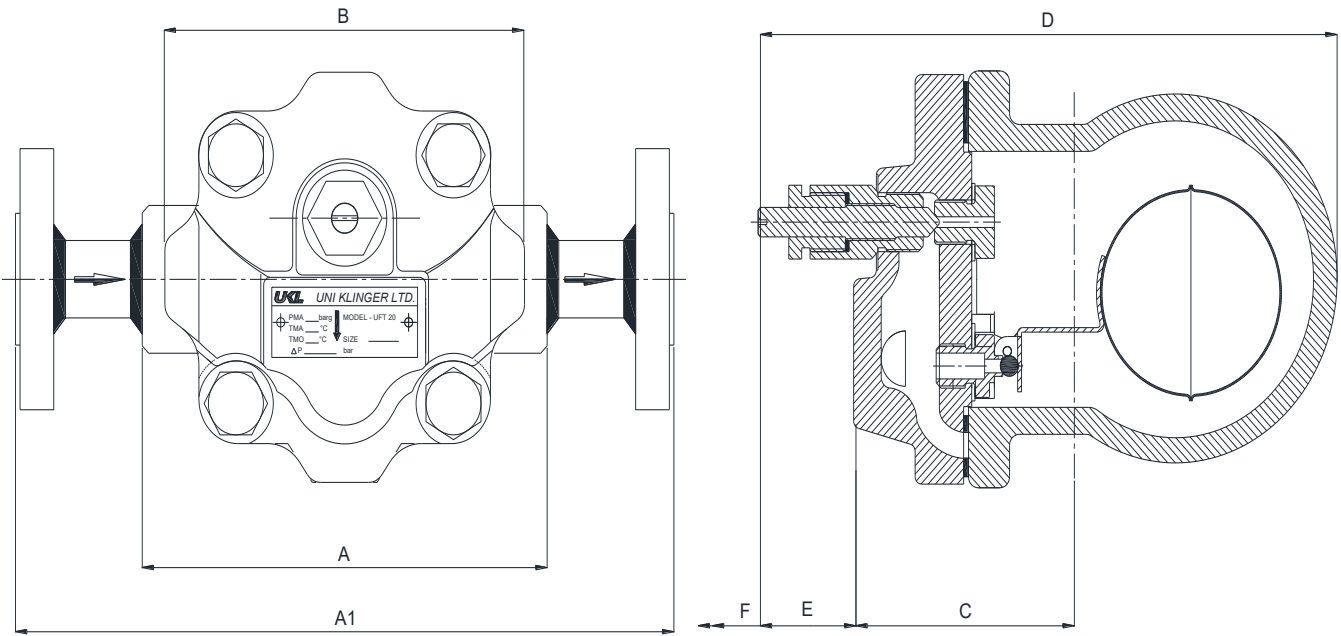


No.	PART NAME	UFT 20 Cast Steel Model		UFT 14 Cast Iron Model	
		MATERIAL	MATERIAL CODE	MATERIAL	MATERIAL CODE
01	Body	Cast Steel	ASTM A 216 Gr WCB	Cast Iron	IS 210 FG 260
02	Cover	Cast Steel	ASTM A 216 Gr WCB	Cast Iron	IS 210 FG 260
03	Pivot Pin	Stainless Steel	AISI 304	Stainless Steel	AISI 304
04	Valve Seat	Stainless Steel	AISI 304	Stainless Steel	AISI 304
05	Pivot Bracket	Stainless Steel	AISI 304	Stainless Steel	AISI 304
06	SLR Valve Seat	Stainless Steel	AISI 304	Stainless Steel	AISI 304
07	Stem	Stainless Steel	AISI 304	Stainless Steel	AISI 304
08	Stem Guide	Stainless Steel	AISI 304	Stainless Steel	AISI 304
09	Stem Guide Lock Nut	Stainless Steel	AISI 304	Stainless Steel	AISI 304
10#	Float	Stainless Steel	AISI 304	Stainless Steel	AISI 304
11	Lever	Stainless Steel	AISI 304	Stainless Steel	AISI 304
12	Steel Ball	Stainless Steel	SS 440C	Stainless Steel	SS 440C
13#	Cover Gasket	CAF/ Non CAF	CAF	CAF	CAF
14	Valve Seat Gasket	Stainless Steel	AISI 304	Stainless Steel	AISI 304
15#	SLR Valve Seat Gasket	Stainless Steel	AISI 304	Stainless Steel	AISI 304
16	SLR Stem Gasket	Graphite	Graphite	Graphite	Graphite
17	Screws	Stainless Steel	AISI 304	Stainless Steel	AISI 304
18	Cover Bolt (M10)	Carbon Steel	Gr. 8.8	Carbon Steel	Gr. 8.8
19	Name Plate	Stainless Steel	AISI 304	Stainless Steel	AISI 304
20	Rivets	Alluminium	---	Alluminium	---
21	Pipe	Carbon Steel	ASTM A 106 Gr B	Carbon Steel	ASTM A 106 Gr B
22	Flanges- SWRF	Carbon Steel	ASTM A 105	Carbon Steel	ASTM A 105
*23	Strainer (Optional)	Stainless Steel	AISI 304	Stainless Steel	AISI 304
# AVAILABLE AS SPARES					

UKL/UFT-14/20/A/APRIL 2019

Ball Float Steam Trap

UFT-14/20 Size 15, 20 & 25 NB



Screwed / Socket Weld End Connections								
Size	Diff Pressure	A	B	C	D	E	F	Weight (kg)
15 NB	4.5/10/14/ 21/32 bar	128	111	68	179	30	110	3.8
20 NB		128	111	68	179	30	110	3.8
25 NB		153	111	75	202	30	130	5.3

Flanged End Connections				
Size	#150		#300	
	A1	Weight(kg)	A1	Weight(kg)
15 NB	278	4.5	278	5.1
20 NB	278	5.1	278	6.1
25 NB	303	7.0	303	8.0

Installation :-

The trap must be fitted with the float arm in a horizontal plane so that it rises and falls vertically. Hence the arrow on the name plate must point downwards.

Traps will be generally supplied in horizontal connections with flow from left to right outlet (L-R) & horizontal connections with flow R-L (rotating cover 180° w.r.t L-R) or vertical connections with top inlet and bottom outlet (rotating cover 90° w.r.t L-R) if specified.

The connection orientation can be changed from L-R and R-L in horizontal connections on site itself only by undoing 4 bolts and rotating the cover to required direction and then assembling.

The SLR has to be opened at the time of start up to avoid steam locking of the trap.

STORAGE

UNI KLINGER UFT and the respective spares should be stored only in enclosed dry rooms in a non-aggressive atmosphere. Fully assembled Ball Float Traps must be stored as supplied by UNI KLINGER. Spare parts must be handled with care and should be stored in their original packing.



Ball Float Steam Trap

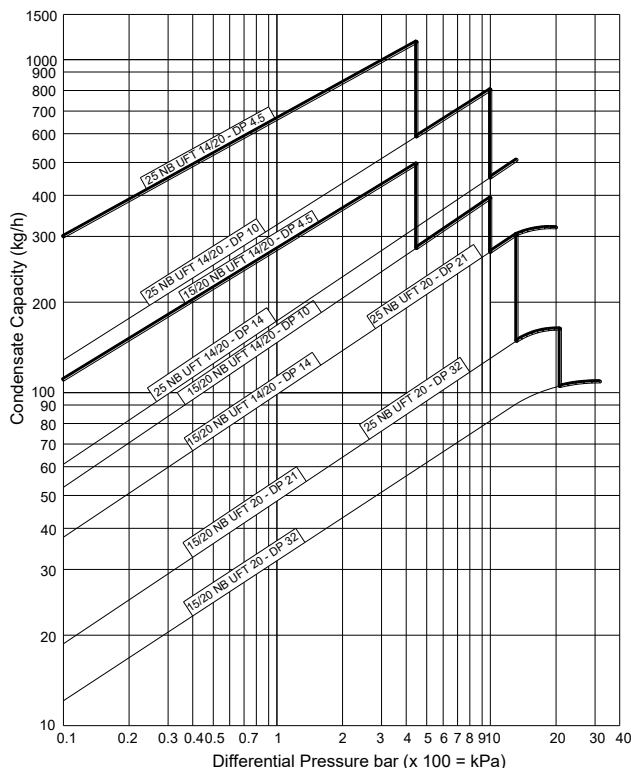
UFT-14/20 Size 15, 20 & 25 NB

Model	Max Diff. Pressure	PMO (Bar)	Sat. Temp °C
UFT 14-4.5	4.5 Bar	14	193
UFT 14-10	10 Bar	14	193
UFT 14-14	14 Bar	14	193
UFT 20-4.5	4.5 Bar	32	237
UFT 20-10	10 Bar	32	237
UFT 20-14	14 Bar	32	237
UFT 20-21	21 Bar	32	237
UFT 20-32	32 Bar	32	237

For referring the capacity charts, please note following:

- Select the model of UFT based on P/T range and MOC
- Select flow capacity on Y axis of the chart for selected model.
- Work out actual differential pressure across the UFT.
- Consider all possible pressure losses in the lines.
- Select differential pressure on X axis.
- Move horizontally on Y axis & vertically on X axis.
- The point of cross section will give you the trap size required.

Capacity Chart : For UFT 15, 20 & 25 NB CI/CS Traps



MOST IMPORTANT:-

Before doing any maintenance on the trap it is necessary to isolate both supply and return lines and any pressure to normalize to atmosphere pressure by opening SLR. Allow the trap to cool before doing any maintenance and clean all sealing faces before assembling it.

How to order and Specify:

15 NB UKL UFT 14- 4.5 Bar, TV, Float Trap, Threaded BSP

Always order spares by stating the type and differential pressure, specify-

EXAMPLE :-

Controller Assembly- valve seat for 15 NB UFT14-4.5 Bar

SPARES AVAILABLE:

SLR Assembly
Float
Main controller assembly
Cover Gasket
Strainer



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.
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MATERIAL OF CONSTRUCTION:

CAST IRON MODEL

UFT 14- CI – IS 210 FG260

CAST CARBON STEEL MODEL

UFT 20- CS- ASTM A216 Gr. WCB

SIZES AVAILABLE:-

UFT 14 Model: 15 NB, 20 NB and 25 NB

UFT 20 Model: 15 NB, 20 NB and 25 NB



END CONNECTIONS:

UFT-14 CAST IRON MODEL

Threaded to NPT , BSP and BSPT.

UFT-20 CAST CARBON STEEL MODEL :-

Threaded to NPT , BSP and BSPT.

Socket Weld to ASME B 16.11

Flanged - #150/#300/#600

INSTALLATION :-

Horizontal/Vertical position.

OPTIONAL:-

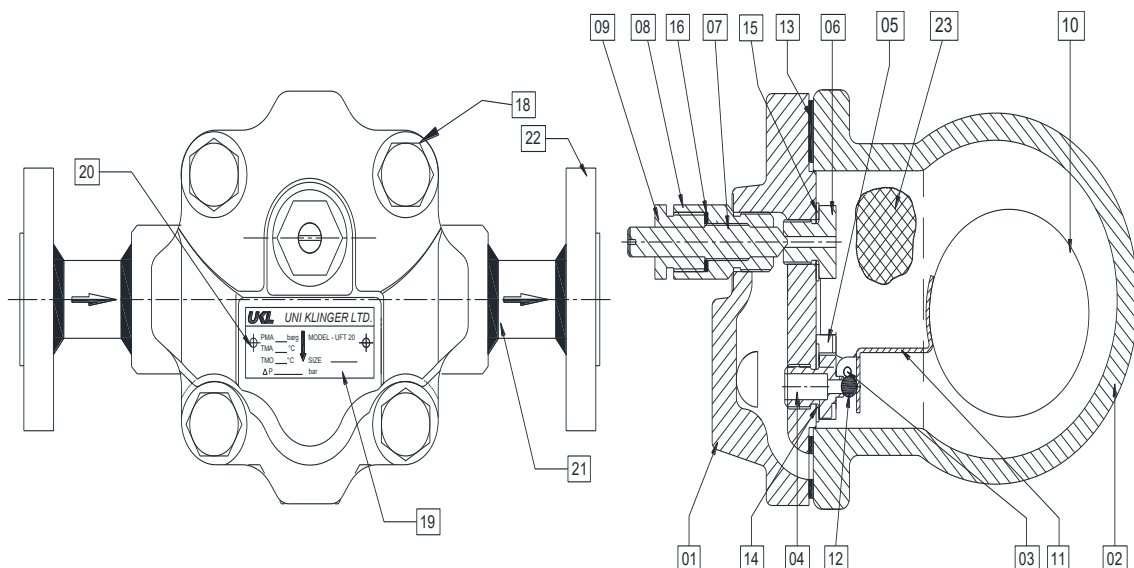
IBR/Non-IBR

With Thermostatic Air vent

Inbuilt Strainer

Ball Float Steam Trap

UFT-14/20 Size 15, 20 & 25 NB

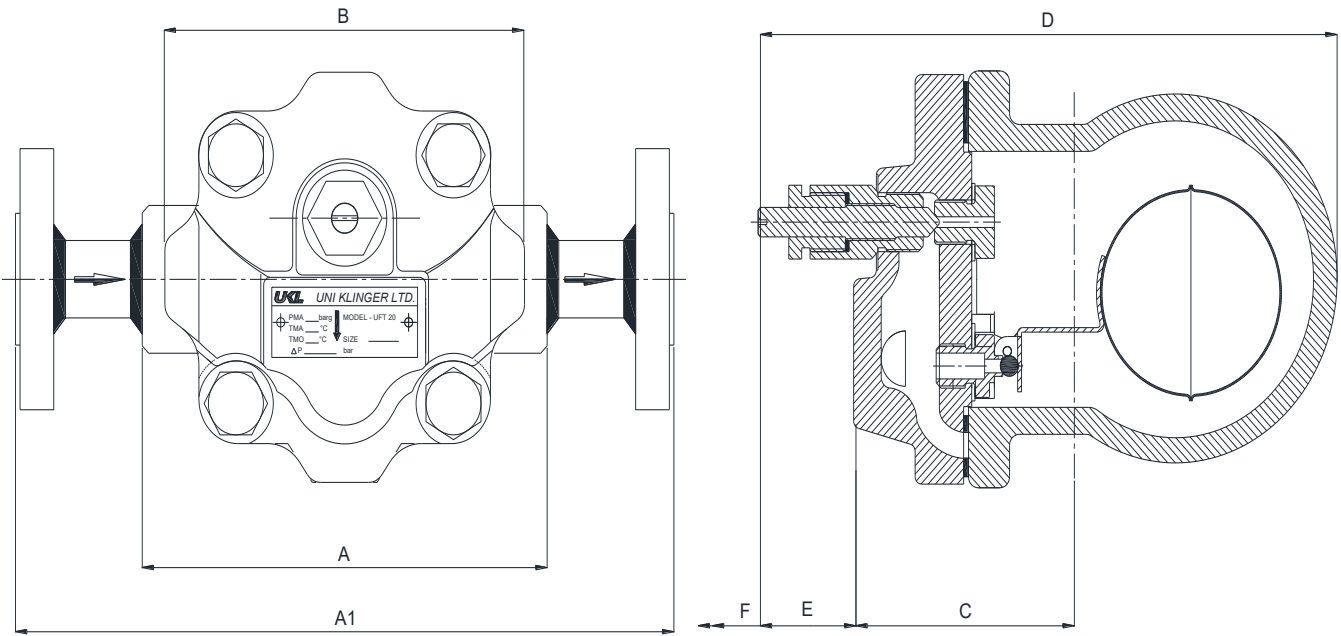


No.	PART NAME	UFT 20 Cast Steel Model		UFT 14 Cast Iron Model	
		MATERIAL	MATERIAL CODE	MATERIAL	MATERIAL CODE
01	Body	Cast Steel	ASTM A 216 Gr WCB	Cast Iron	IS 210 FG 260
02	Cover	Cast Steel	ASTM A 216 Gr WCB	Cast Iron	IS 210 FG 260
03	Pivot Pin	Stainless Steel	AISI 304	Stainless Steel	AISI 304
04	Valve Seat	Stainless Steel	AISI 304	Stainless Steel	AISI 304
05	Pivot Bracket	Stainless Steel	AISI 304	Stainless Steel	AISI 304
06	SLR Valve Seat	Stainless Steel	AISI 304	Stainless Steel	AISI 304
07	Stem	Stainless Steel	AISI 304	Stainless Steel	AISI 304
08	Stem Guide	Stainless Steel	AISI 304	Stainless Steel	AISI 304
09	Stem Guide Lock Nut	Stainless Steel	AISI 304	Stainless Steel	AISI 304
10#	Float	Stainless Steel	AISI 304	Stainless Steel	AISI 304
11	Lever	Stainless Steel	AISI 304	Stainless Steel	AISI 304
12	Steel Ball	Stainless Steel	SS 440C	Stainless Steel	SS 440C
13#	Cover Gasket	CAF/ Non CAF	CAF	CAF	CAF
14	Valve Seat Gasket	Stainless Steel	AISI 304	Stainless Steel	AISI 304
15#	SLR Valve Seat Gasket	Stainless Steel	AISI 304	Stainless Steel	AISI 304
16	SLR Stem Gasket	Graphite	Graphite	Graphite	Graphite
17	Screws	Stainless Steel	AISI 304	Stainless Steel	AISI 304
18	Cover Bolt (M10)	Carbon Steel	Gr. 8.8	Carbon Steel	Gr. 8.8
19	Name Plate	Stainless Steel	AISI 304	Stainless Steel	AISI 304
20	Rivets	Alluminium	---	Alluminium	---
21	Pipe	Carbon Steel	ASTM A 106 Gr B	Carbon Steel	ASTM A 106 Gr B
22	Flanges- SWRF	Carbon Steel	ASTM A 105	Carbon Steel	ASTM A 105
*23	Strainer (Optional)	Stainless Steel	AISI 304	Stainless Steel	AISI 304
# AVAILABLE AS SPARES					

UKL/UFT-14/20/A/APRIL 2019

Ball Float Steam Trap

UFT-14/20 Size 15, 20 & 25 NB



Screwed / Socket Weld End Connections								
Size	Diff Pressure	A	B	C	D	E	F	Weight (kg)
15 NB	4.5/10/14/ 21/32 bar	128	111	68	179	30	110	3.8
20 NB		128	111	68	179	30	110	3.8
25 NB		153	111	75	202	30	130	5.3

Flanged End Connections				
Size	#150		#300	
	A1	Weight(kg)	A1	Weight(kg)
15 NB	278	4.5	278	5.1
20 NB	278	5.1	278	6.1
25 NB	303	7.0	303	8.0

Installation :-

The trap must be fitted with the float arm in a horizontal plane so that it rises and falls vertically. Hence the arrow on the name plate must point downwards.

Traps will be generally supplied in horizontal connections with flow from left to right outlet (L-R) & horizontal connections with flow R-L (rotating cover 180° w.r.t L-R) or vertical connections with top inlet and bottom outlet (rotating cover 90° w.r.t L-R) if specified.

The connection orientation can be changed from L-R and R-L in horizontal connections on site itself only by undoing 4 bolts and rotating the cover to required direction and then assembling.

The SLR has to be opened at the time of start up to avoid steam locking of the trap.

STORAGE

UNI KLINGER UFT and the respective spares should be stored only in enclosed dry rooms in a non-aggressive atmosphere. Fully assembled Ball Float Traps must be stored as supplied by UNI KLINGER. Spare parts must be handled with care and should be stored in their original packing.



Ball Float Steam Trap

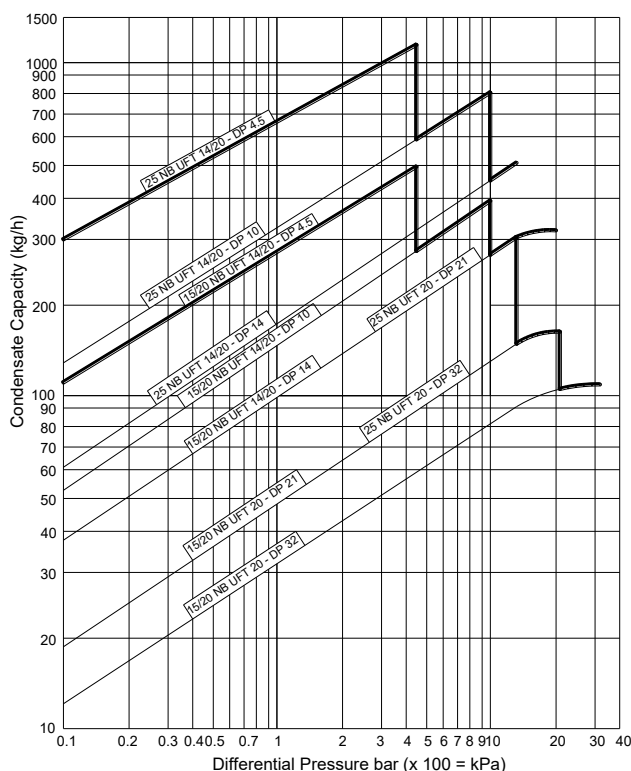
UFT-14/20 Size 15, 20 & 25 NB

Model	Max Diff. Pressure	PMO (Bar)	Sat. Temp °C
UFT 14-4.5	4.5 Bar	14	193
UFT 14-10	10 Bar	14	193
UFT 14-14	14 Bar	14	193
UFT 20-4.5	4.5 Bar	32	237
UFT 20-10	10 Bar	32	237
UFT 20-14	14 Bar	32	237
UFT 20-21	21 Bar	32	237
UFT 20-32	32 Bar	32	237

For referring the capacity charts, please note following:

- Select the model of UFT based on P/T range and MOC
- Select flow capacity on Y axis of the chart for selected model.
- Work out actual differential pressure across the UFT.
- Consider all possible pressure losses in the lines.
- Select differential pressure on X axis.
- Move horizontally on Y axis & vertically on X axis.
- The point of cross section will give you the trap size required.

Capacity Chart : For UFT 15, 20 & 25 NB CI/CS Traps



MOST IMPORTANT:-

Before doing any maintenance on the trap it is necessary to isolate both supply and return lines and any pressure to normalize to atmosphere pressure by opening SLR. Allow the trap to cool before doing any maintenance and clean all sealing faces before assembling it.

How to order and Specify:

15 NB UKL UFT 14- 4.5 Bar, TV, Float Trap, Threaded BSP

Always order spares by stating the type and differential pressure, specify-

EXAMPLE :-

Controller Assembly- valve seat for 15 NB UFT14-4.5 Bar

SPARES AVAILABLE:

SLR Assembly
Float
Main controller assembly
Cover Gasket
Strainer



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.

In view of technical progress design and dimensions are subjected to change without notice.



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, Kadaki, Pune-411 003. Tel.: +91-20-4102 3000 Fax.: (020) 4102 3001
e-mail : salesco@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 : fdworks@uniklinger.com

Branch Offices :

Baroda : 102, 1st Floor, Otel Towers-II R.C. Dutt Road, 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 road, Teyanampet, Chennai - 600 018, Tel.: 91 - 44 - 24345707. Fax.: 91 - 44 - 24343960. E-mail : saleschen@uniklinger.com
Kolkata : 9, Chittrakoot, 8th Floor, 230 A, A.J.C Bose road, Kolkatta-700 020, Tel.: 91-33-22872510, Fax.: 91-33-22876494. E-mail : salescal@uniklinger.com
Mumbai : Ecstasy Business Park Co-op.Society Ltd, Office no.714, 7th floor, J.S.D. Road, Mulund (W), Mumbai-400080. E-mail : salesmum@uniklinger.com
Delhi : 321, Ansal Chamber-II, 6, Bhikaji Cama Place, New Delhi-110 066, Tel.: 91-11-41658767/ 91-11-26193847, Fax.: 91-11-41658768. E-mail : salesdel@uniklinger.com

UKL BALL FLOAT TYPE 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 main and trap steam. This is done by steam trap.

UKL Ball Float Trap discharge condensate near to steam saturation temperature, which works on the principle of Buoyancy, [densities difference of Water and Steam]. The rising condensate level elevates the Float open the valve and discharges the condensate. When the level of condensate drops, valve close the trap.

It is commonly used for most process heating applications. Wherever steam is used for indirect heating application, the trap to be used must be of mechanical design. It is a continuous discharge type steam trap. This trap can handle very high condensate loads and the discharge will be proportional to the differential pressure across the trap. There may be other similar process applications where the heat load is small and a mechanical trap can handle small as well as fluctuating loads.

This trap is provided with two optional features called Steam Lock release (SLR) and Thermostatic Vent (TV). The SLR is a manual operation to release steam that may hamper free movement of the float on water level. The TV will ensure that air and such un dissolved gases will be automatically vented out when present in condensate.

MATERIAL OF CONSTRUCTION:

CAST IRON MODEL

UFT 14- CI – IS 210 FG260

CAST CARBON STEEL MODEL

UFT 20- CS- ASTM A216 Gr. WCB

SIZES AVAILABLE:-

UFT 14 Model: 40 NB and 50 NB

UFT 20 Model: 40 NB and 50 NB



END CONNECTIONS:

UFT-14 CAST IRON MODEL

Threaded to NPT , BSP and BSPT.

UFT-20 CAST CARBON STEEL MODEL :-

Threaded to NPT , BSP and BSPT.

Socket Weld to ASME B 16.11

Flanged - #150/#300/#600

INSTALLATION:-

Horizontal position.

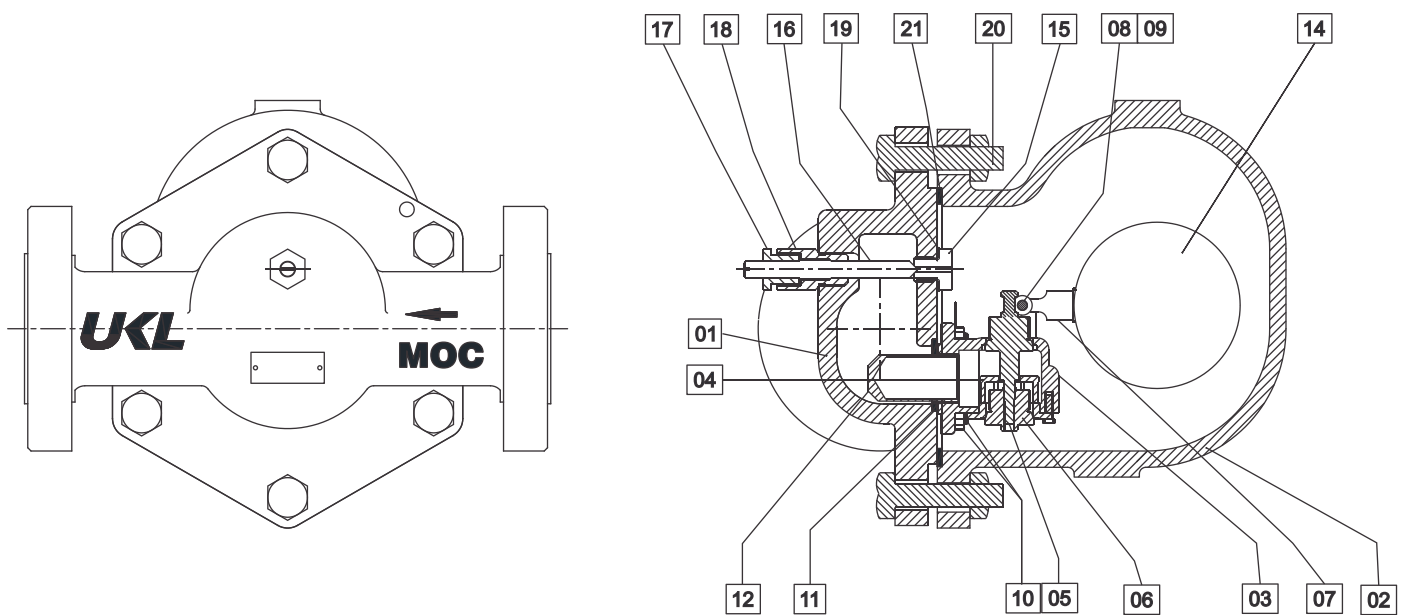
OPTIONAL:-

UFT-14 Available in Non-IBR

UFT-20 Available in IBR/Non-IBR

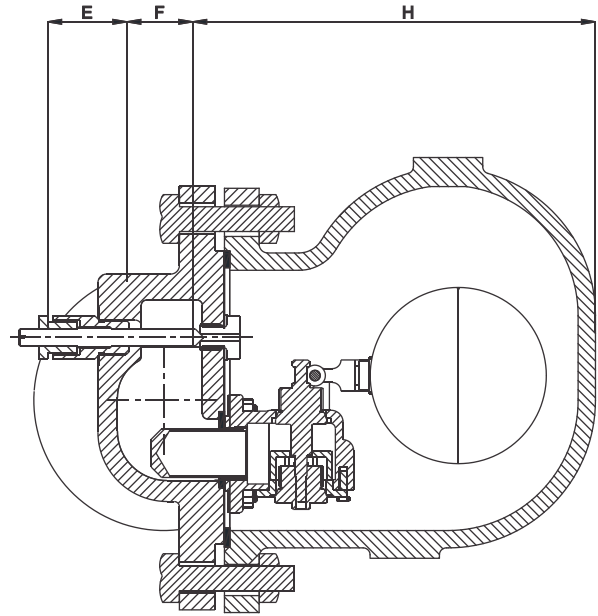
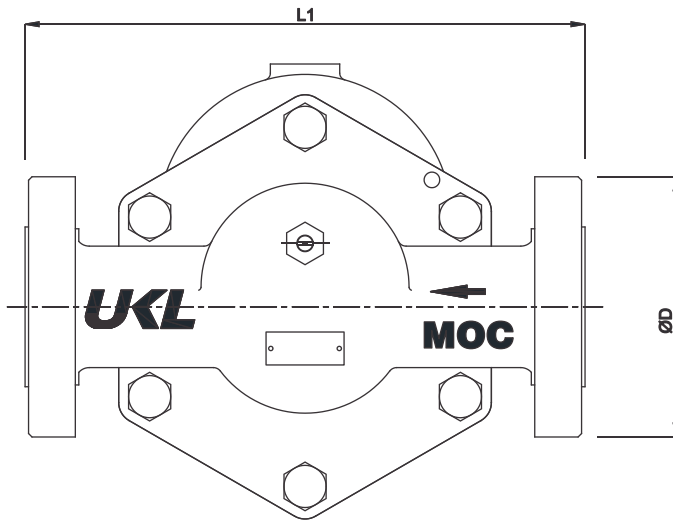
Thermostatic Air vent

Ball Float Steam Trap UFT 40 & 50 NB



No.	PART NAME	UFT 14 Cast Iron Model		UFT 20 Cast Steel Model	
		MATERIAL	MATERIAL CODE	MATERIAL	MATERIAL CODE
1	Body	Cast Iron	IS 210 FG 260	Cast Steel	ASTM A 216 Gr WCB
2	Cover	Cast Iron	IS 210 FG 260	Cast Steel	ASTM A 216 Gr WCB
3	Controller Housing	Stainless Steel	ASTM A 743 Gr CA 40	Stainless Steel	ASTM A 743 Gr CA 40
4	Valve Seat	Stainless Steel	ASTM A 743 Gr CA 40	Stainless Steel	ASTM A 743 Gr CA 40
5	Stem	Stainless Steel	ASTM A 743 Gr CA 40	Stainless Steel	ASTM A 743 Gr CA 40
6	Lower Valve	Stainless Steel	ASTM A 743 Gr CA 40	Stainless Steel	ASTM A 743 Gr CA 40
7	Lever	Stainless Steel	ASTM A 743 Gr CA 40	Stainless Steel	ASTM A 743 Gr CA 40
8	Pivot Pin	Stainless Steel	AISI 304	Stainless Steel	AISI 304
9	Split Pin	Stainless Steel	AISI 304	Stainless Steel	AISI 304
10	Stud & Nut	Carbon Steel	Gr 8.8 / 8	Carbon Steel	Gr 8.8 / 8
11	C. H. Gasket	Graphite	Graphite	Graphite	Graphite
12	Erosion Deflector	Stainless Steel	AISI 304	Stainless Steel	AISI 304
13	Baffle Plate	Stainless Steel	AISI 304	Stainless Steel	AISI 304
14	Float	Stainless Steel	AISI 304	Stainless Steel	AISI 304
15	SLR Valve Seat	Stainless Steel	AISI 304	Stainless Steel	AISI 304
16	SLR Stem	Stainless Steel	AISI 304	Stainless Steel	AISI 304
17	Stem Guide	Stainless Steel	AISI 304	Stainless Steel	AISI 304
18	Stem Guide Lock Nut	Stainless Steel	AISI 304	Stainless Steel	AISI 304
19	SLR Valve Seat Gasket	Stainless Steel	AISI 304	Stainless Steel	AISI 304
20	Bolts & Nut	Carbon Steel	Gr 8.8 / 8	Carbon Steel	Gr 8.8 / 8
21	Cover Gasket	CAF	CAF	CAF	CAF

Ball Float Steam Trap UFT 40 & 50 NB



DIMENSIONS (mm)

SOCKET WELD / Screwed End Connections:

Size	Overall Length	H	E	F	ØD	Weight (kg)
40 NB	299.00	255.00	45.00	34.00	48.80	22.000
50 NB	321.00	255.00	45.00	36.00	61.70	27.400

Flanged End Connections #150

Size	L1	H	E	F	ØD	Weight(kg)
40 NB	299.00	255.00	45.00	34.00	125.00	26.0
50 NB	321.00	255.00	45.00	36.00	150.00	33.0

Flanged End Connections #300

Size	L1	H	E	F	ØD	Weight(kg)
40 NB	299.00	255.00	45.00	34.00	125.00	28.0
50 NB	321.00	255.00	45.00	36.00	150.00	35.0

INSTALLATION:-

The trap must be fitted with the float arm in a horizontal plane so that it rises and falls vertically. Hence the arrow on the name plate must point downwards.

Traps will be generally supplied in horizontal connections with flow from right to left outlet (R-L) horizontal connections.

The SLR has to be opened at the time of start up to avoid steam locking of the trap.

STORAGE

UNI KLINGER UFT and the respective spares should be stored only in enclosed dry rooms in a non-aggressive atmosphere. Fully assembled Ball Float Traps must be stored as supplied by UNI KLINGER. Spare parts must be handled with care and should be stored in their original packing

Ball Float Steam Trap UFT 40 & 50 NB

OPERATING CONDITIONS

Model	Max Diff. Pressure	PMO (Bar)	Sat. Temp °C
UFT 14-4.5	4.5 Bar	14	193
UFT 14-10	10 Bar	14	193
UFT-14-14	14 Bar	14	193
UFT 20-4.5	4.5 Bar	32	237
UFT 20-10	10 Bar	32	237
UFT 20-21	21 Bar	32	237
UFT 20-32	32 Bar	32	237
UFT 20-14	14 Bar	32	237

For referring the capacity charts, please note following:

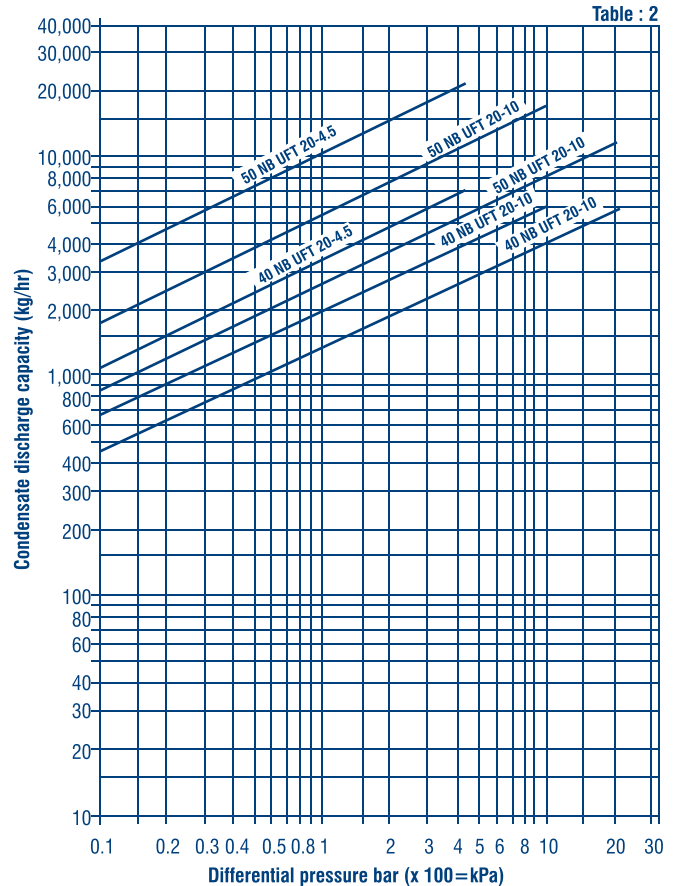
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- Select flow capacity on Y axis of the chart for selected model.
- Work out actual differential pressure across the UFT.
- Consider all possible pressure losses in the lines.
- Select differential pressure on X axis.
- Move horizontally on Y axis & vertically on X axis.
- The point of cross section will give you the trap size required.

How to order and Specify:

40 NB UKL UFT 14- 4.5 Bar, TV, Float Trap, SW End

Always order spares by stating the type and differential pressure, specify-
Controller Assembly- valve seat for 40 NB UFT14-4.5 Bar

Capacity Chart: For UFT 40 & 50 NB UFT CI/CS Traps



SPARES AVAILABLE:

SLR Assembly
Float
Main controller assembly
Cover Gasket

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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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

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

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

Factory :

Branch Offices :

Baroda : 102, Ofitel 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



UKL BALL FLOAT TYPE 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 main and trap steam. This is done by steam trap.

UKL Ball Float Trap discharge condensate near to steam saturation temperature, which works on the principle of Buoyancy, [densities difference of Water and Steam]. The rising condensate level elevates the Float open the valve and discharges the condensate. When the level of condensate drops, valve close the trap.

It is commonly used for most process heating applications. Wherever steam is used for indirect heating application, the trap to be used must be of mechanical design. It is a continuous discharge type steam trap. This trap can handle very high condensate loads and the discharge will be proportional to the differential pressure across the trap. There may be other similar process applications where the heat load is small and a mechanical trap can handle small as well as fluctuating loads.

This trap is provided with two optional features called Steam Lock release (SLR) and Thermostatic Vent (TV). The SLR is a manual operation to release steam that may hamper free movement of the float on water level. The TV will ensure that air and such un dissolved gases will be automatically vented out when present in condensate.

MATERIAL OF CONSTRUCTION:

CAST IRON MODEL

UFT 14- CI – IS 210 FG260

CAST CARBON STEEL MODEL

UFT 20- CS- ASTM A216 Gr. WCB

SIZES AVAILABLE:-

UFT 14 Model: 40 NB and 50 NB

UFT 20 Model: 40 NB and 50 NB



END CONNECTIONS:

UFT-14 CAST IRON MODEL

Threaded to NPT , BSP and BSPT.

UFT-20 CAST CARBON STEEL MODEL :-

Threaded to NPT , BSP and BSPT.

Socket Weld to ASME B 16.11

Flanged - #150/#300/#600

INSTALLATION:-

Horizontal position.

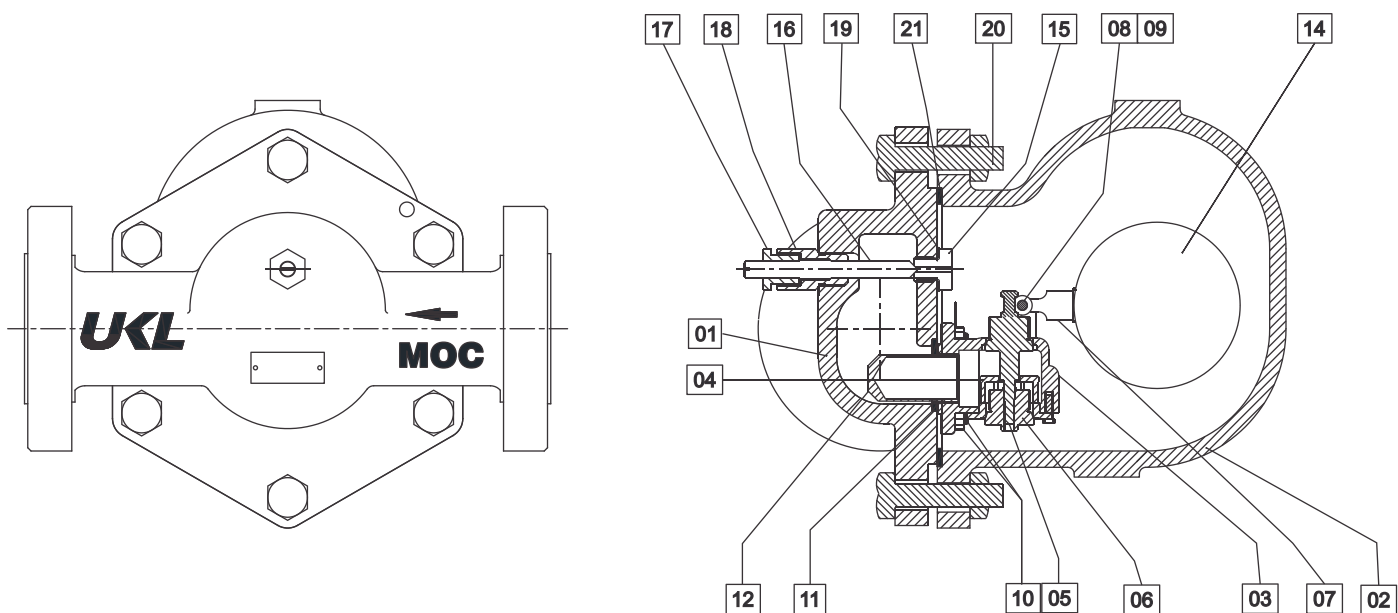
OPTIONAL:-

UFT-14 Available in Non-IBR

UFT-20 Available in IBR/Non-IBR

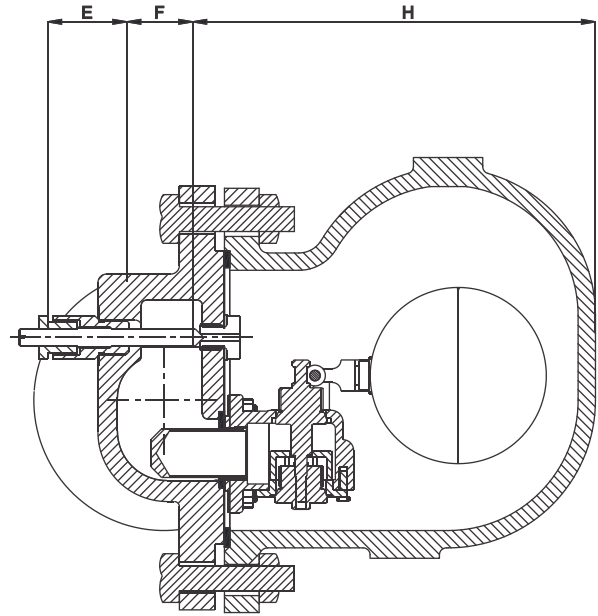
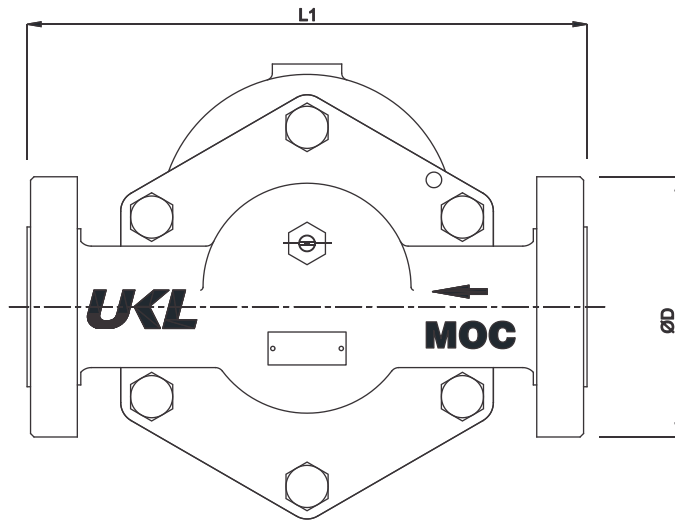
Thermostatic Air vent

Ball Float Steam Trap UFT 40 & 50 NB



No.	PART NAME	UFT 14 Cast Iron Model		UFT 20 Cast Steel Model	
		MATERIAL	MATERIAL CODE	MATERIAL	MATERIAL CODE
1	Body	Cast Iron	IS 210 FG 260	Cast Steel	ASTM A 216 Gr WCB
2	Cover	Cast Iron	IS 210 FG 260	Cast Steel	ASTM A 216 Gr WCB
3	Controller Housing	Stainless Steel	ASTM A 743 Gr CA 40	Stainless Steel	ASTM A 743 Gr CA 40
4	Valve Seat	Stainless Steel	ASTM A 743 Gr CA 40	Stainless Steel	ASTM A 743 Gr CA 40
5	Stem	Stainless Steel	ASTM A 743 Gr CA 40	Stainless Steel	ASTM A 743 Gr CA 40
6	Lower Valve	Stainless Steel	ASTM A 743 Gr CA 40	Stainless Steel	ASTM A 743 Gr CA 40
7	Lever	Stainless Steel	ASTM A 743 Gr CA 40	Stainless Steel	ASTM A 743 Gr CA 40
8	Pivot Pin	Stainless Steel	AISI 304	Stainless Steel	AISI 304
9	Split Pin	Stainless Steel	AISI 304	Stainless Steel	AISI 304
10	Stud & Nut	Carbon Steel	Gr 8.8 / 8	Carbon Steel	Gr 8.8 / 8
11	C. H. Gasket	Graphite	Graphite	Graphite	Graphite
12	Errosion Deflector	Stainless Steel	AISI 304	Stainless Steel	AISI 304
13	Baffle Plate	Stainless Steel	AISI 304	Stainless Steel	AISI 304
14	Float	Stainless Steel	AISI 304	Stainless Steel	AISI 304
15	SLR Valve Seat	Stainless Steel	AISI 304	Stainless Steel	AISI 304
16	SLR Stem	Stainless Steel	AISI 304	Stainless Steel	AISI 304
17	Stem Guide	Stainless Steel	AISI 304	Stainless Steel	AISI 304
18	Stem Guide Lock Nut	Stainless Steel	AISI 304	Stainless Steel	AISI 304
19	SLR Valve Seat Gasket	Stainless Steel	AISI 304	Stainless Steel	AISI 304
20	Bolts & Nut	Carbon Steel	Gr 8.8 / 8	Carbon Steel	Gr 8.8 / 8
21	Cover Gasket	CAF	CAF	CAF	CAF

Ball Float Steam Trap UFT 40 & 50 NB



DIMENSIONS (mm)

SOCKET WELD / Screwed End Connections:

Size	Overall Length	H	E	F	ØD	Weight (kg)
40 NB	299.00	255.00	45.00	34.00	48.80	22.000
50 NB	321.00	255.00	45.00	36.00	61.70	27.400

Flanged End Connections #150

Size	L1	H	E	F	ØD	Weight(kg)
40 NB	299.00	255.00	45.00	34.00	125.00	26.0
50 NB	321.00	255.00	45.00	36.00	150.00	33.0

Flanged End Connections #300

Size	L1	H	E	F	ØD	Weight(kg)
40 NB	299.00	255.00	45.00	34.00	125.00	28.0
50 NB	321.00	255.00	45.00	36.00	150.00	35.0

INSTALLATION:-

The trap must be fitted with the float arm in a horizontal plane so that it rises and falls vertically. Hence the arrow on the name plate must point downwards.

Traps will be generally supplied in horizontal connections with flow from right to left outlet (R-L) horizontal connections.

The SLR has to be opened at the time of start up to avoid steam locking of the trap.

STORAGE

UNI KLINGER UFT and the respective spares should be stored only in enclosed dry rooms in a non-aggressive atmosphere. Fully assembled Ball Float Traps must be stored as supplied by UNI KLINGER. Spare parts must be handled with care and should be stored in their original packing

Ball Float Steam Trap UFT 40 & 50 NB

OPERATING CONDITIONS

Model	Max Diff. Pressure	PMO (Bar)	Sat. Temp °C
UFT 14-4.5	4.5 Bar	14	193
UFT 14-10	10 Bar	14	193
UFT-14-14	14 Bar	14	193
UFT 20-4.5	4.5 Bar	32	237
UFT 20-10	10 Bar	32	237
UFT 20-21	21 Bar	32	237
UFT 20-32	32 Bar	32	237
UFT 20-14	14 Bar	32	237

For referring the capacity charts, please note following:

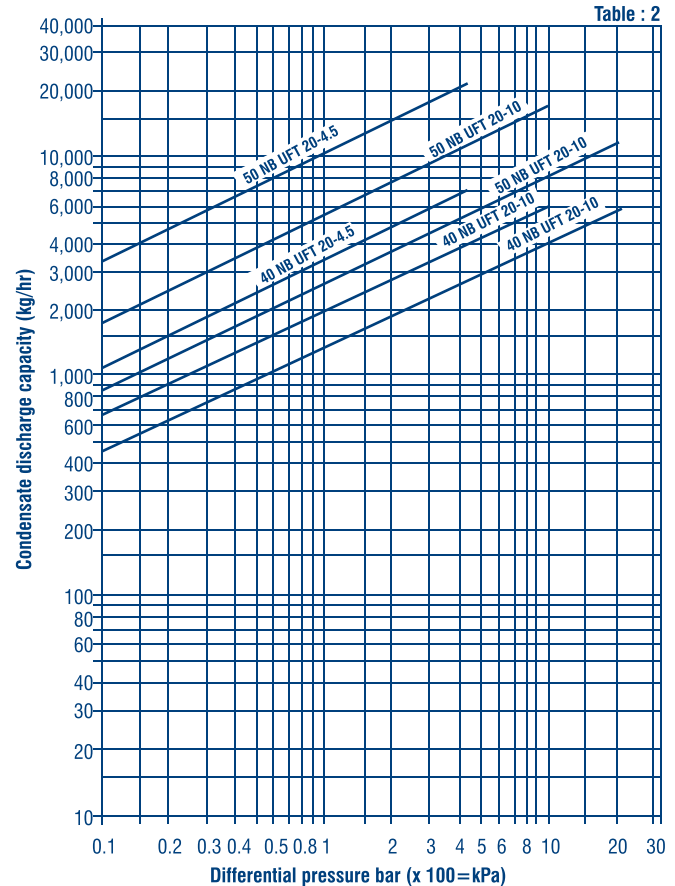
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- Work out actual differential pressure across the UFT.
- Consider all possible pressure losses in the lines.
- Select differential pressure on X axis.
- Move horizontally on Y axis & vertically on X axis.
- The point of cross section will give you the trap size required.

How to order and Specify:

40 NB UKL UFT 14- 4.5 Bar, TV, Float Trap, SW End

Always order spares by stating the type and differential pressure, specify-
Controller Assembly- valve seat for 40 NB UFT14-4.5 Bar

Capacity Chart: For UFT 40 & 50 NB UFT CI/CS Traps



SPARES AVAILABLE:

SLR Assembly
Float
Main controller assembly
Cover Gasket

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

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Features:-

- UKL UIBT-28US is optimally sized for complete removal of condensate.
- UKL UIBT-28US is suitable with universal connector.
- UKL UIBT-28US is designed to eliminate internal damages caused by impingement of condensate.
- Maintenance free and long life.

MATERIAL OF CONSTRUCTION:

ASTMA 351 Gr. CF8
ASTMA 240 TP304 L

SIZES AVAILABLE:-

15 NB / 20 NB
25 NB (on request)

END CONNECTIONS:

Screwed NPT and BSPT
Socket Weld
Flanged CL 150 / CL 300
Suitable with UITVS (Universal Flange)

INSTALLATION :

Horizontal position



OPERATING CONDITIONS :

Maximum Operating Pressure : 28 kg/cm² (g)
Maximum Operating Temperature : 425°C

DESIGN CONDITIONS :

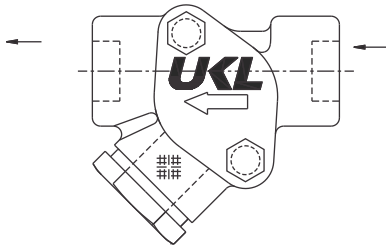
Maximum Design Pressure : 52 Kg/cm² (g)
Maximum Design Temperature : 425°C

OPTIONAL:-

IBR/Non-IBR
UIBT 28US with UITVS (*on request)
Available in Differential Pressure(kg/cm²) :-
5/8.5/14/17/28
Orientation L-R or R-L available

Inverted Bucket Steam Trap UIBT-28US

UNIVERSAL CONNECTOR

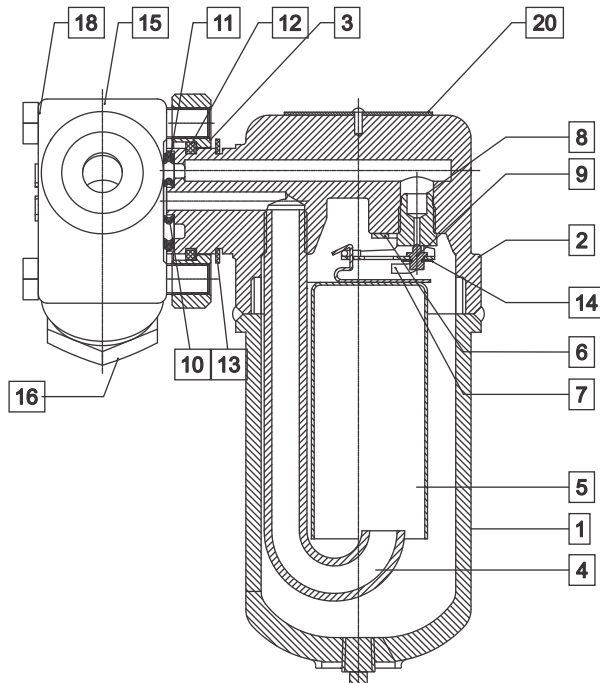


Connector Body : Stainless Steel CF8

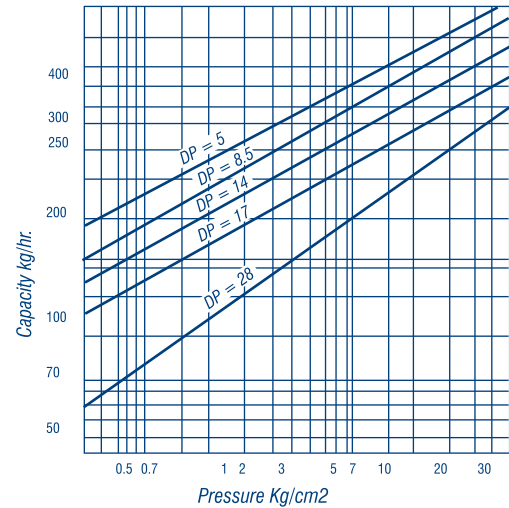
Connector Without integral strainer

Connector with integral strainer

Connector with integral strainer and blow down valve.



Flow Chart UIBT - 28US



BILL OF MATERIAL

ITEM	DESCRIPTION	MATERIAL
1	BODY	ASTM A351 Gr. CF8M ASTM A351 Gr. CF8 /
2	COVER	ASTM A351 Gr. CF8 / CF8M
3	CONNECTOR FLANGE	ASTM A 182 F304 / F316 ASTM A351 Gr.CF8 / CF8M /
4	PIPE (1/4" SCH.80)	AISI 304 / ASTM A 312 TP: 304
5	BUCKET	AISI 304
6	BRACKET	AISI 304
7	LEVER	AISI 304
8	VALVE SEAT (HARDENED)	AISI 420 / AISI410 / ASTM A 681 Gr D2
9	VALVE PIN (HARDENED)	AISI 420 / ASTM A 681 Gr D2
10	SPIRAL WOUND GASKET	SS WITH GRAPHITE FILLER
11	SPIRAL WOUND GASKET	SS WITH GRAPHITE FILLER
12	RETAINER RING	AISI 304
13	CIRCLIP	AISI 304
14	LOCKING STRIP	AISI 304
15	UNIVERSAL CONNECTOR	ASTM A351 Gr. CF8M / CF8
16	BOLT (M10 X 65 - 25 NB) BOLT (M10 X 55 - 15 / 20NB)	EQUI. OR HIGHER Gr. Gr.10.9 / Gr. 12.9 / Gr.8.8 /
17	STRAINER	AISI 304
18	STRAINER (FILTER) CAP	ASTM A 182 F304 / F 316
19	SPIRAL WOUND GASKET	SS WITH GRAPHITE FILLER
20	NAME PLATE	AISI 304



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



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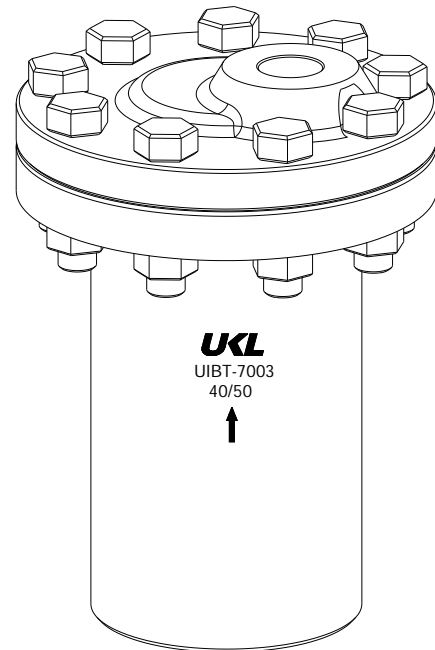
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FEATURES:-

- UKL UIBT is optimally sized for complete removal of condensate.
- UKL UIBT is designed to eliminate internal damages caused by impingement of condensate.
- UIBT is suitable for high pressure applications.
- Maintenance free and long life.

MATERIAL OF CONSTRUCTION:-

ASTM A216 Gr. WCB (Cast Carbon Steel)

ASTM A217 Gr. WC6 /WC9 (Cast Alloy Steel) (Optional)

SIZES AVAILABLE:-

40 NB & 50 NB

END CONNECTIONS:-

Screwed to BSP / BSPT / NPT

Socket Weld to ASME B 16.11

Flanged End #600

OPTIONAL:-

IBR (On Request)

Flanged End Connections

AVAILABLE DIFFERENTIAL PRESSURE (DP) :-

1 / 1.7 / 3 / 4 / 5.5 / 8.5 / 12.5 / 17 / 25.5 / 34.5 / 41.5 / 48.5 / 69 Kg/cm² (g)

OPERATING CONDITIONS:-

For ASTM A216 Gr. WCB

Maximum Operating Pressure :- 69 Kg/cm² (g)

Maximum Operating Temperature :- 400°C

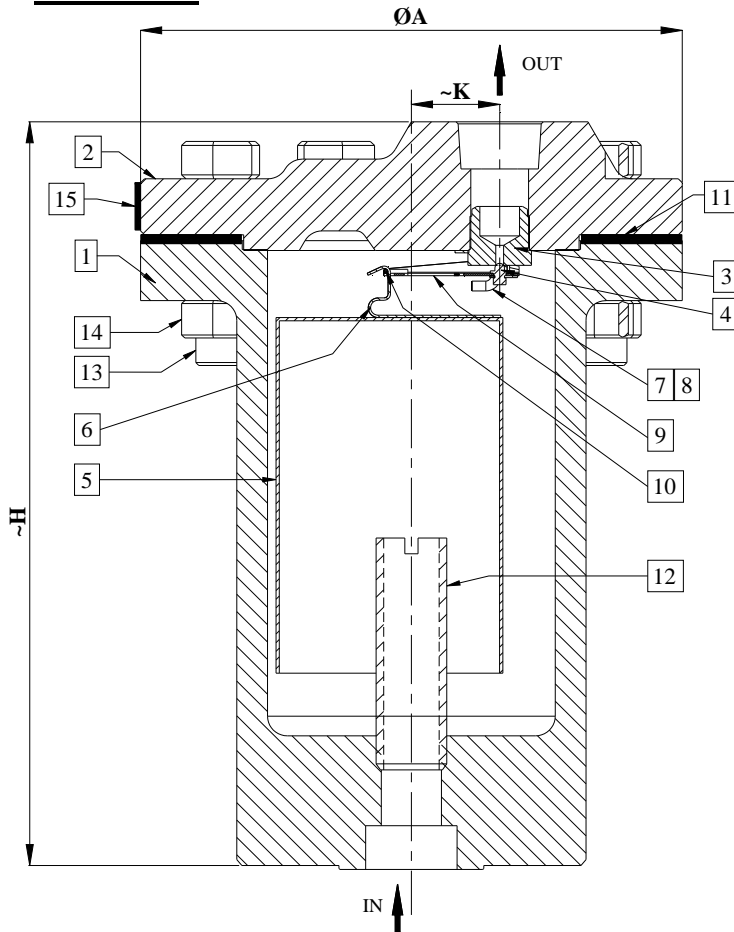
DESIGN CONDITIONS:-

For ASTM A216 Gr. WCB

Maximum Design Pressure :- 69 Kg/cm² (g)

Maximum Design Temperature :- 426 °C

UIBT 7003

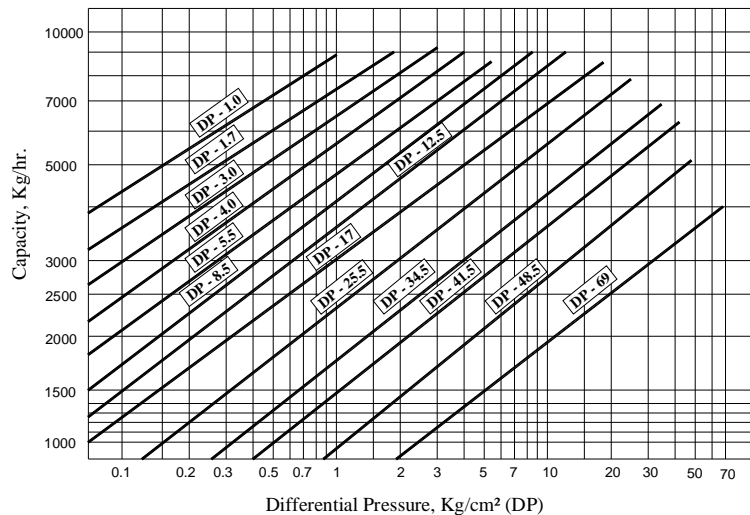


DIMENSIONS UIBT - 7003	
ØA	315 mm
~H	490 mm
~K	54 mm
WEIGHT (Screwed/SW)	~96 Kgs

BILL OF MATERIAL		
NO. PART	DESCRIPTION	M.O.C.
1	BODY	ASTM A 217 Gr. WC6 / WC9 ASTM A 216 Gr. WCB
2	COVER	ASTM A 217 Gr. WC6 / WC9 ASTM A 216 Gr. WCB
3	VALVE SEAT	ASTM A 681 Gr.D2
4	VALVE PIN	ASTM A 681 Gr.D2
5	BUCKET	AISI 304
6	BUCKET HOOK	AISI 304
7	BRACKET	AISI 304
8	BRACKET PIN	AISI 304
9	LEVER	AISI 304
10	LEVER PIN	AISI 304
11	BODY GASKET	CI-18
12	INLET TUBE	ASTM A 106 Gr. B
13	STUDS	ASTM A 193 Gr. B7
14	NUTS	ASTM A 193 Gr. 2H
15	NAME PLATE	STAINLESS STEEL

Note –All dimensions and weights are approximate.
- Traps with flanges may have different Pressure - Temperature rating.

FLOW CAPACITY CHART - UIBT - 7003



Other Products : 

Cast / Forged Steel Piston Valves, Bellow seal valves, High Pressure valves (Gate/Globe) , Strainers – "Y" Type
Steam Traps (Thermodynamic, Thermostatic, Ball Float Traps) , 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.

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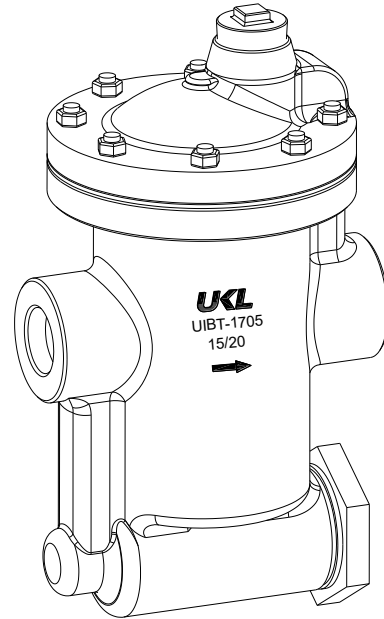
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Delhi : 321, Ansal Chamber-II, 6, Bhikaji Cama Place, New Delhi-110 066, Tel.: 91-11-41658767/91-11-26193847, Fax.: 91-11-41658768. E-mail : salesdel@uniklinger.com

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FEATURES:-

- UKL UIBT is optimally sized for complete removal of condensate.
- UKL UIBT is designed to eliminate internal damages caused by impingement of condensate.
- Maintenance free and long life.
- UKL UIBT has unique & efficient internal mechanism
- Equipped with inbuilt strainer.

MATERIAL OF CONSTRUCTION:-

IS 210 Gr. FG 260 (Cast Iron)

ASTM A216 Gr. WCB (Cast Carbon Steel)

Other material on request.

SIZES AVAILABLE:-

15 NB & 20 NB

END CONNECTIONS:-

Screwed to BSP / BSPT / NPT

Socket Weld (For Cast Carbon Steel Only)

Flanged End - ANSI #150/#300 (Welded - for Cast Carbon Steel Only)

OPTIONAL:-

IBR (On Request)

Flanged End - ANSI #150/#300 (Welded)

AVAILABLE DIFFERENTIAL PRESSURE (DP) :-

1 / 2 / 5 / 8.5 / 14 / 17 Kg/cm² (g)

OPERATING CONDITIONS:-

Maximum Operating Pressure :- 17 Kg/cm² (g)

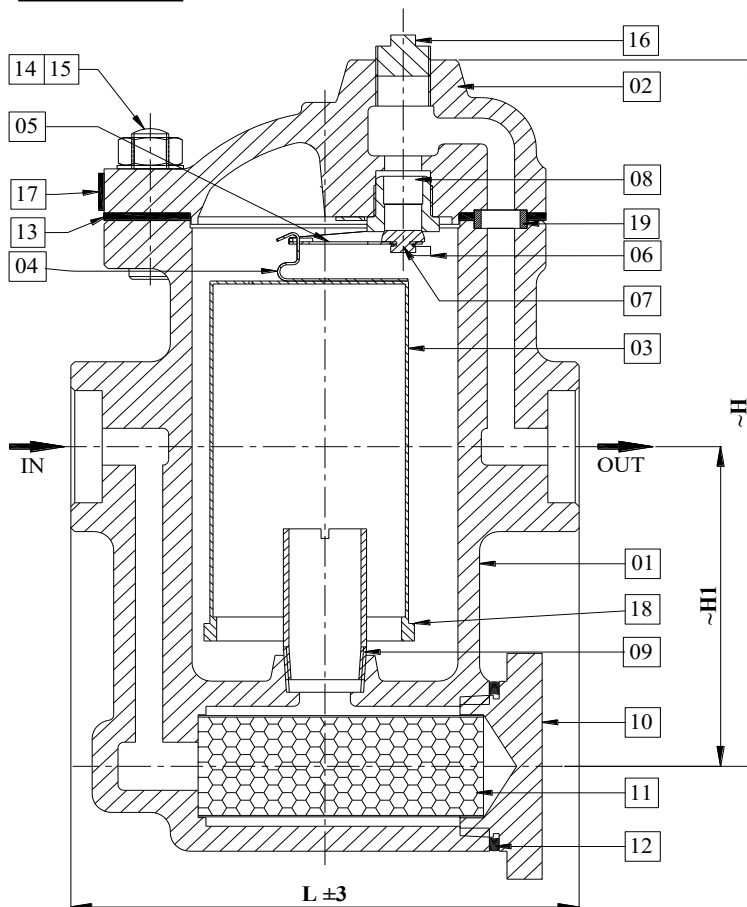
Maximum Operating Temperature :- 400 °C

DESIGN CONDITIONS:-

Maximum Design Pressure :- 17.0 Kg/cm² (g)

Maximum Design Temperature :- 425 °C

UIBT 1705

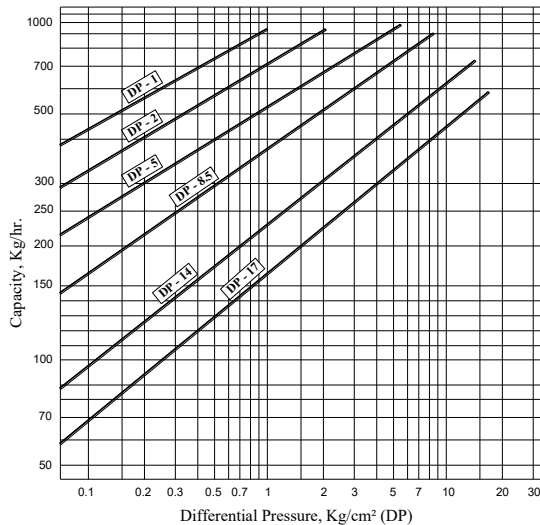


DIMENSIONS UIBT - 1705	
~H1	125 mm
~H	218 mm
L	165 mm
WEIGHT (SW/SCREWED)	~12 Kgs

ITEM	DESCRIPTION	M.O.C
01	BODY	IS 210 Gr. FG 260 / ASTM A216 Gr. WCB
02	COVER	IS 210 Gr. FG 260 / ASTM A216 Gr. WCB
03	BUCKET	AISI 304
04	BUCKET HOOK	AISI 304
05	LEVER ASSEMBLY	AISI 304
06	BRACKET ASSEMBLY	AISI 304
07	VALVE PIN	ASTM A681 Gr. D2
08	VALVE SEAT	ASTM A681 Gr. D2
09	INLET TUBE / BODY PIPE	ASTM A106 Gr.B
10	FILTER CAP	ASTM A105
11	FILTER	AISI 304
12	SPW GASKET	SS WITH GRAPHITE
13	BODY GASKET	NON-CAF
14	STUDS	ASTM A 193 Gr. B7
15	NUTS	ASTM A 193 Gr. 2H
16	END PLUG	ASTM A105
17	NAME PLATE	AISI 304
18	BUCKET RING (If required)	CARBON STEEL
19	BUSH	AISI 304 / AISI 316

Note –All dimensions and weights are approximate.

FLOW CAPACITY CHART - UIBT - 1705



Other Products :



Cast / Forged Steel Piston Valves, Bellow seal valves, High Pressure valves (Gate/Globe) , Strainers – “Y” Type
Steam Traps (Thermodynamic, Thermostatic, Ball Float Traps), 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.

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- Maintenance free and long life.

MATERIAL OF CONSTRUCTION:-

ASTM A216 Gr. WCB (Cast Carbon Steel)

ASTM A217 Gr. WC6/WC9 (Cast Alloy Steel) (Optional)

SIZES AVAILABLE:-

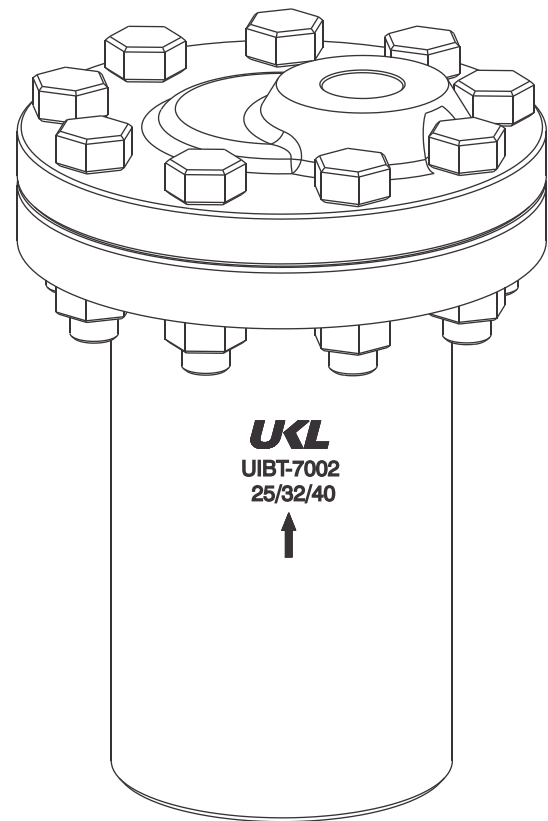
25 NB, 32 NB, 40 NB

END CONNECTIONS:-

Screwed to BSP / BSPT / NPT

Socket Weld to ASME B 16.11

Flanged End #600



OPTIONAL:-

IBR (On Request)

Flanged End Connections

AVAILABLE DIFFERENTIAL

PRESSURE (DP) :-

1 / 2 / 4 / 7 / 9 / 12.5 / 15.5 / 24 / 34.5 / 55 / 69 Kg/cm² (g)

OPERATING CONDITIONS:-

For ASTM A216 Gr. WCB

Maximum Operating Pressure :- 69 Kg/cm² (g)

Maximum Operating Temperature :- 400°C

DESIGN CONDITIONS:-

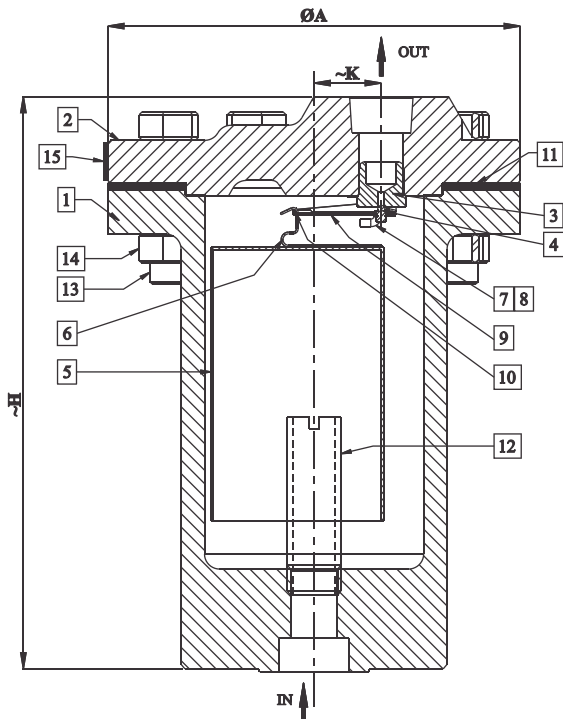
For ASTM A216 Gr. WCB

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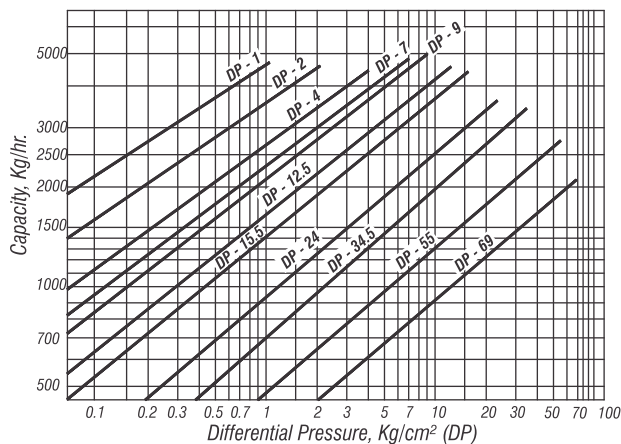
Maximum Design Temperature :- 426°C

Inverted Bucket Steam Trap

UIBT - 7002



FLOW CAPACITY CHART - UIBT - 7002



DIMENSIONS UIBT - 7002	
ØA	275 mm
~H	380 mm
~K	44 mm
WEIGHT (Screwed/SW)	~58 Kgs

BILL OF MATERIAL:-

BILL OF MATERIAL		
NO. PART	DESCRIPTION	M.O.C.
1	BODY	ASTM A 217 Gr. WC6 / WC9 ASTM A 216 Gr. WCB
2	COVER	ASTM A 217 Gr. WC6 / WC9 ASTM A 216 Gr. WCB
3	VALVE SEAT	ASTM A 681 Gr.D2
4	VALVE PIN	ASTM A 681 Gr.D2
5	BUCKET	AISI 304
6	BUCKET HOOK	AISI 304
7	BRACKET	AISI 304
8	BRACKET PIN	AISI 304
9	LEVER	AISI 304
10	LEVER PIN	AISI 304
11	BODY GASKET	SPW AISI 316 + GRAPHITE
12	INLET TUBE	ASTM A 106 Gr. B
13	STUDS	ASTM A 193 Gr. B7
14	NUTS	ASTM A 193 Gr. 2H
15	NAME PLATE	STAINLESS STEEL



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