

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.

Trap is provided with a Automatic Thermostatic Vent (ATV) by default. This Thermostatic vent will ensure that air and other non-condensable gases will be automatically vented out when present in condensate. This phenomenon helps for the free movement of the float on water level and smooth operation of the Ball Float Trap.



MATERIAL OF CONSTRUCTION:

Cast Carbon Steel:- ASTM A216 Gr. WCB

Sizes Available:- 80 NB and 100 NB

End Connection:

Flanged - #150 and #300 As per ASME B16.5

INSTALLATION:- Horizontal position.

OPERATING CONDITIONS:-

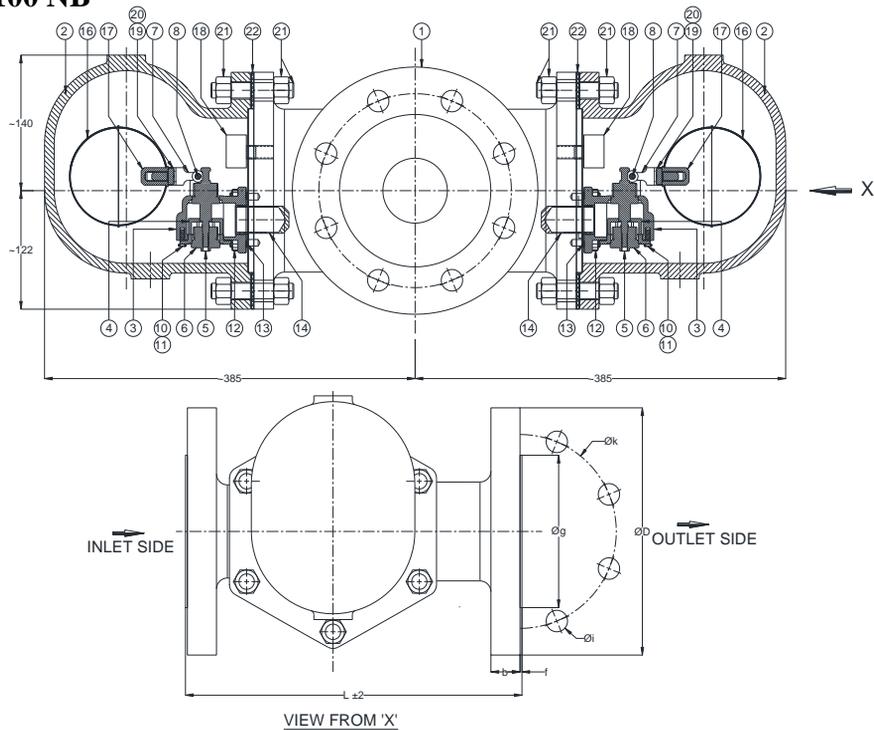
Max Operating Pressure :- 32 Kg/cm²
 Max Operating Temperature :- 425 °C

OPTIONAL:-

IBR/Non-IBR
 Flanged End #150/#300
 Butt Weld end (On request)
 Available Diff. Pressure (Kg/cm²)
 4.5 / 10 / 14 / 21 / 32

BILL OF MATERIAL:

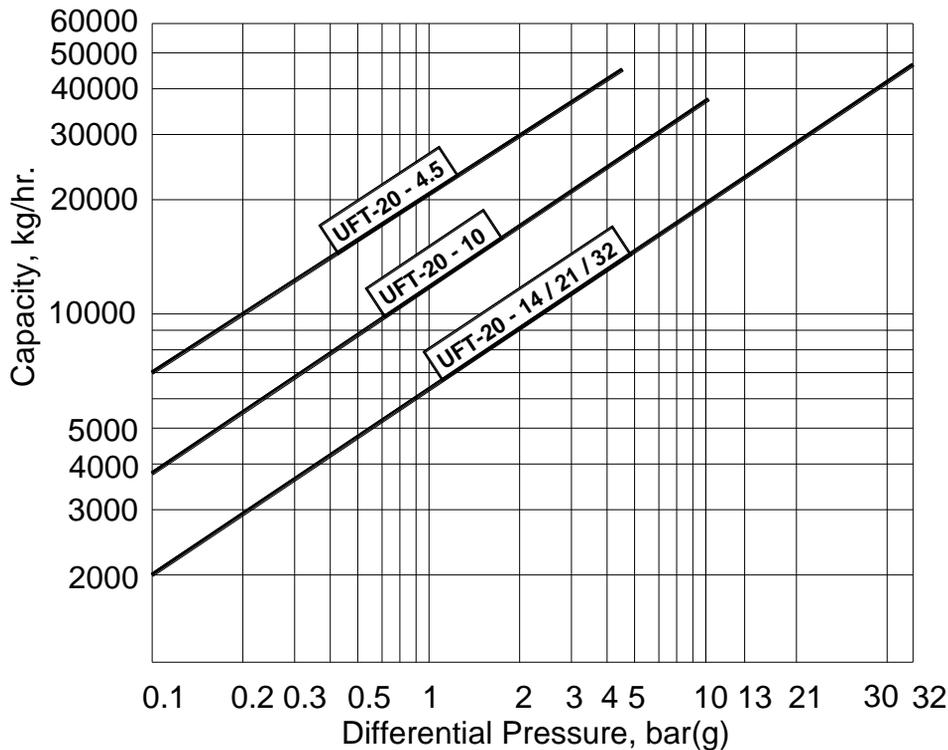
UFT Size- 80 NB / 100 NB



Sr. No.	Size	Class	L ±2	ØD	b	Øg	f	Øk	Øi	Holes, N
1	80	#150	334.00	190.00	22.30	127.00	2.00	152.40	19.05	4
2	100	#150	334.00	230.00	22.30	157.20	2.00	190.50	19.05	8
3	80	#300	343.00	210.00	27.00	127.00	2.00	168.30	22.22	8
4	100	#300	350.00	255.00	30.20	157.20	2.00	200.00	22.22	8

PART NO.	PART NAME	MATERIAL	MATERIAL CODE
1	BODY	CAST STEEL	ASTM A 216 Gr. WCB
2	COVER	CAST STEEL	ASTM A 216 Gr. WCB
3	CONTROLLER HOUSING	STAINLESS STEEL	ASTM A 743 Gr CA 40
4	VALVE SEAT	STAINLESS STEEL	ASTM A 743 Gr CA 40
5	STEM	STAINLESS STEEL	ASTM A 743 Gr CA 40
6	LOWER VALVE	STAINLESS STEEL	ASTM A 743 Gr CA 40
7	LEVER	STAINLESS STEEL	ASTM A 743 Gr CA 40
8	PIVOT PIN	STAINLESS STEEL	AISI 304
9 *	SPLIT PIN	STAINLESS STEEL	AISI 304
10	HEX BOLT	STAINLESS STEEL	AISI 304
11	WASHER	STAINLESS STEEL	AISI 304
12	STUD & NUT	CARBON STEEL	Gr. 8.8 / 8
13	CONTROLLER HOUSING GASKET	GRAPHITE	GRAPHITE
14	ERROSSION DEFLECTOR	STAINLESS STEEL	AISI 304
15 *	BAFFLE PLATE	STAINLESS STEEL	AISI 304
16	FLOAT	STAINLESS STEEL	AISI 304
17	SOCKET	STAINLESS STEEL	AISI 304
18	THERMOSTATIC VENT	STAINLESS STEEL	AISI 304
19	HEX BOLT	STAINLESS STEEL	AISI 304
20	SPRING WASHER	STAINLESS STEEL	AISI 304
21	STUD / BOLT & NUT	CARBON STEEL	Gr. 8.8 / 8
22	COVER GASKET	NON CAF	NON CAF
23 *	NAME PLATE	STAINLESS STEEL	AISI 304

Flow Capacities:-



INSTALLATION:-

The trap must be fitted with the float arm in a horizontal plane so that it rises and falls vertically.

STORAGE

UNI KLINGER High Capacity Trap 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.

How to order and Specify:

80 NB UKL UFT 20- 4.5 Bar, Float Trap, #150

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

Controller Assembly- Valve Seat for 80 NB UFT 20-4.5 Bar

SPARES AVAILABLE:

Float
Main controller assembly
Cover Gasket



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.

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