

Steam used for secondary heating like Coils, vessels, heat exchangers etc, generate a lot of condensate post heat transfer. This large quantity condensate can handle by the Inverted Bucket Trap. This condensate has a substantial heat component with cost tagged to it. Also this is treated and pure water and can be used as Feed water for the Boiler, saving the cost of heating, Water Bill and Treatment chemicals. Therefore it makes sense to recycle / reuse this condensate. This function is also done by the Inverted Bucket Trap which works on the principle of Buoyancy, [densities difference of Water and Steam]. The rising in condensate level fills and envelopes the Bucket causing it to sink which open the mechanically linked valve and discharges the condensate, and reverse, when the level of condensate drops Steam enters the bucket, causes the flotation of the Bucket which close the valve and stops condensate discharge & traps the steam.

### 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:

ASTM A 351 Gr. CF8  
ASTM A 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/cm<sup>2</sup> (g)  
Maximum Operating Temperature : 425°C

### DESIGN CONDITIONS :

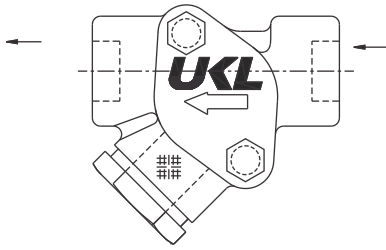
Maximum Design Pressure : 52 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature : 425°C

### OPTIONAL:-

IBR/Non-IBR  
UIBT 28US with UITVS (\*on request)  
Available in Differential Pressure(kg/cm<sup>2</sup>) :-  
5/8.5/14/17/28  
Orientation L-R or R-L available

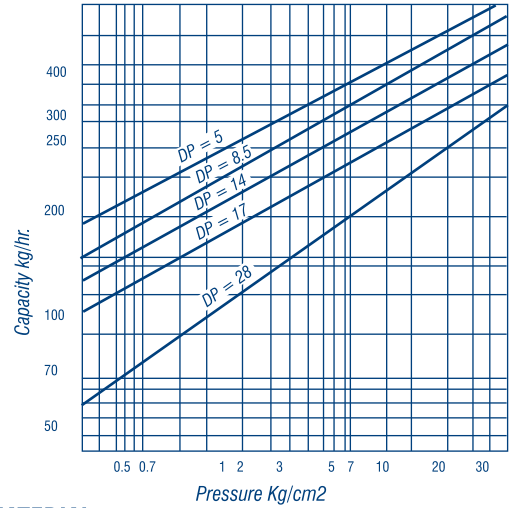
# Inverted Bucket Steam Trap UIBT-28US

UNIVERSAL CONNECTOR



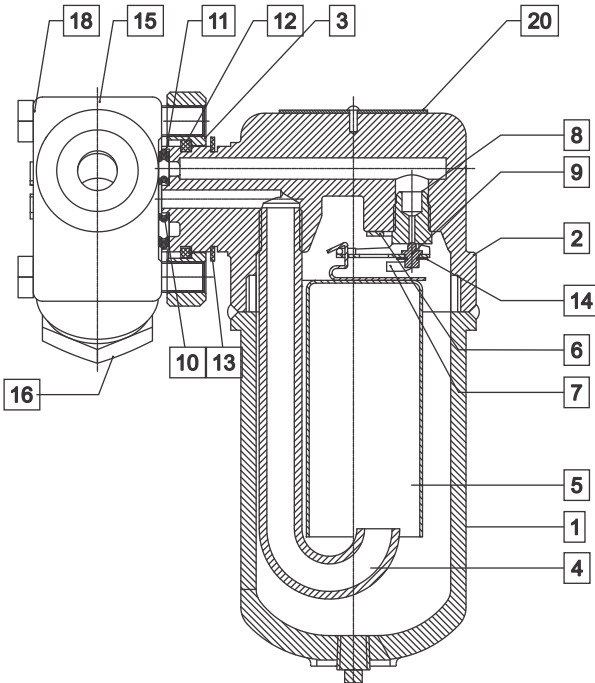
Connector Body : Stainless Steel CF8  
 Connector Without integral strainer  
 Connector with integral strainer  
 Connector with integral strainer and blow down valve.

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 Sheeting / Cut Gaskets, Spiral Wound Gaskets / Gland Packing

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



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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.

**MATERIAL OF CONSTRUCTION:-**

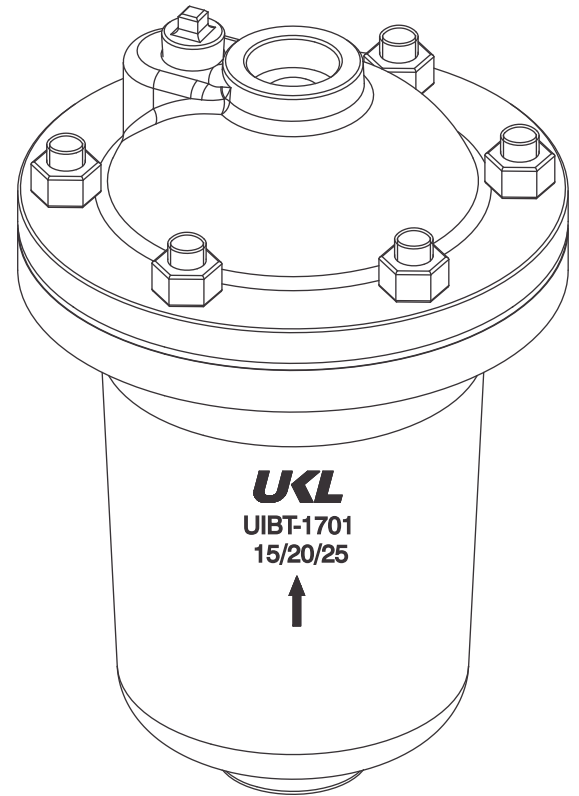
ASTM A216 Gr. WCB (Cast Carbon Steel)

**SIZES AVAILABLE:-**

15 NB, 20 NB & 25 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #150



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1 / 2 / 4 / 5.5 / 8.5 / 12.5 / 17 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

Maximum Operating Pressure :- 17 Kg/cm<sup>2</sup> (g)

Maximum Operating Temperature :- 400°C

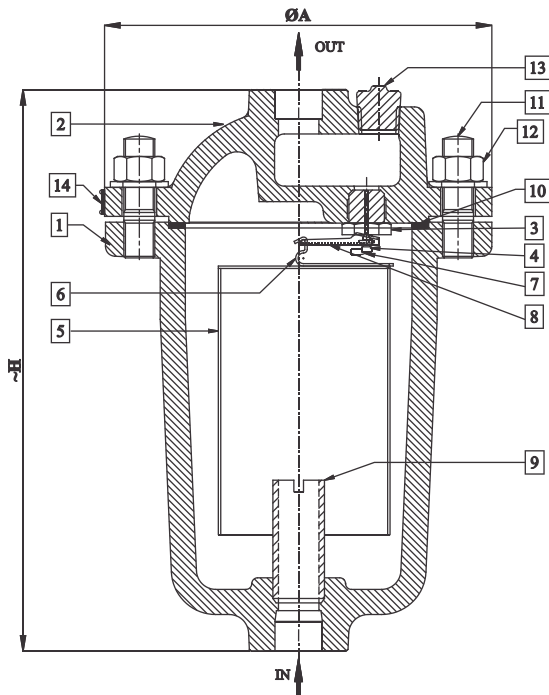
**DESIGN CONDITIONS:-**

Maximum Design Pressure :- 17 Kg/cm<sup>2</sup> (g)

Maximum Design Temperature :- 426°C

# Inverted Bucket Steam Trap

## UIBT - 1701

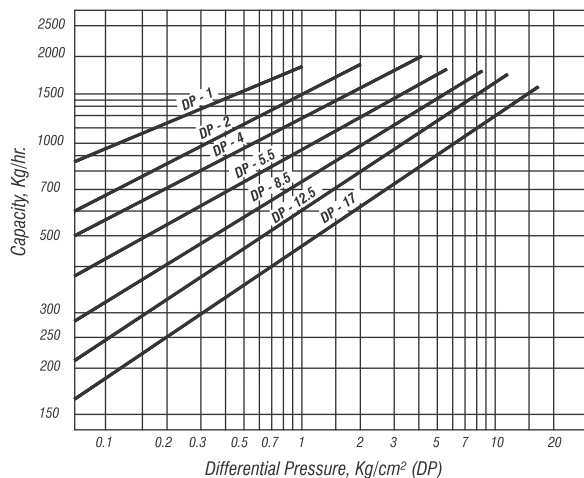


DIMENSIONS UIBT - 1701	
ØA	210.0 mm
~H	310.0 mm
WEIGHT (SW/SCREWED)	~19.0 Kgs

### BILL OF MATERIAL:

PART NO.	DESCRIPTION	M.O.C.
1	BODY	ASTM A 216 Gr. WCB
2	COVER	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 ASSEMBLY	AISI 304
8	LEVER ASSEMBLY	AISI 304
9	INLET TUBE	ASTM A 106 Gr. B
10	BODY GASKET	SPW AISI 316 + GRAPHITE
11	STUDS	ASTM A 193 Gr. B7
12	NUTS	ASTM A 193 Gr. 2H
13	PLUG	ASTM A 105
14	NAME PLATE	STAINLESS STEEL

FLOW CAPACITY CHART - UIBT - 1701



### 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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**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.

**MATERIAL OF CONSTRUCTION:-**

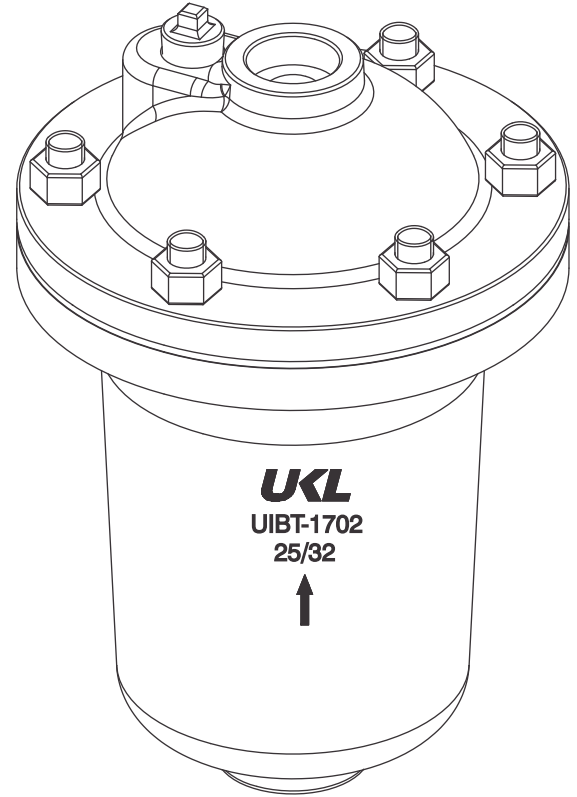
ASTM A216 Gr. WCB (Cast Carbon Steel)

**SIZES AVAILABLE:-**

25 NB & 32 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #150



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1 / 2 / 4 / 5.5 / 8.5 / 12.5 / 17 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

Maximum Operating Pressure :- 17 Kg/cm<sup>2</sup> (g)

Maximum Operating Temperature :- 400°C

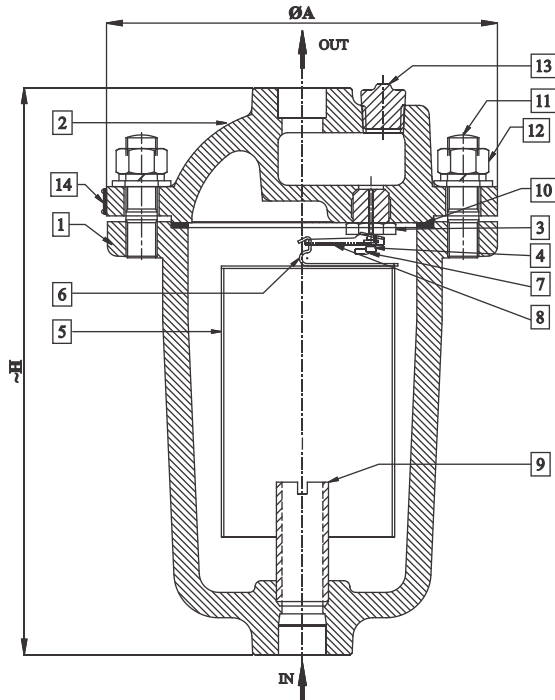
**DESIGN CONDITIONS:-**

Maximum Design Pressure :- 17 Kg/cm<sup>2</sup> (g)

Maximum Design Temperature :- 426°C

# Inverted Bucket Steam Trap

## UIBT - 1702

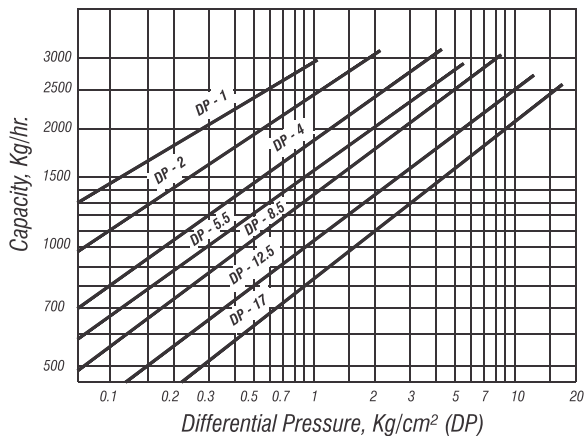


DIMENSIONS UIBT - 1702	
ØA	190.0 mm
~H	320.0 mm
WEIGHT (SW/SCREWED)	~18.0 Kgs

### BILL OF MATERIAL:

PART NO.	DESCRIPTION	M.O.C.
1	BODY	ASTM A 216 Gr. WCB
2	COVER	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 ASSEMBLY	AISI 304
8	LEVER ASSEMBLY	AISI 304
9	INLET TUBE	ASTM A 106 Gr. B
10	BODY GASKET	SPW AISI 316 + GRAPHITE
11	STUDS	ASTM A 193 Gr. B7
12	NUTS	ASTM A 193 Gr. 2H
13	PLUG	ASTM A 105
14	NAME PLATE	STAINLESS STEEL

FLOW CAPACITY CHART - UIBT - 1702



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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**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

**MATERIAL OF CONSTRUCTION:-**

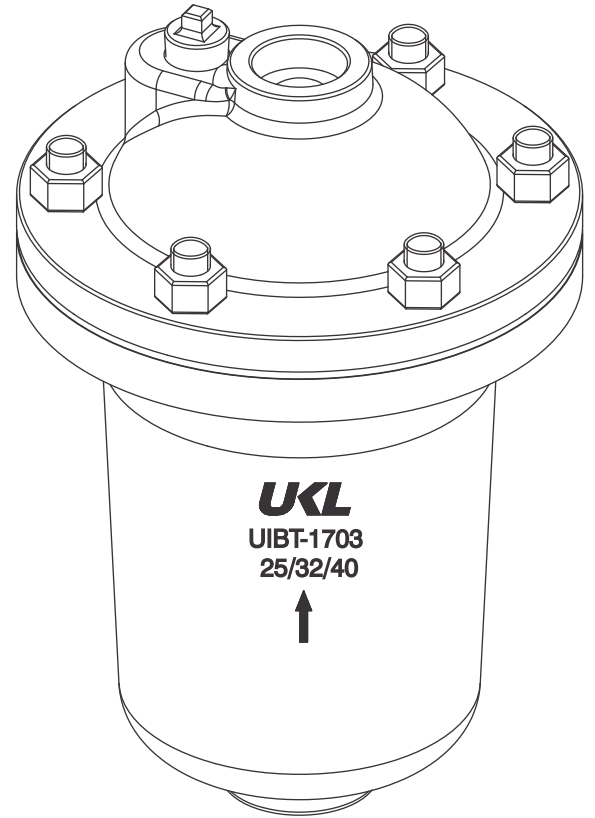
ASTM A216 Gr. WCB (Cast Carbon Steel)

**SIZES AVAILABLE:-**

25 NB, 32 NB & 40 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #150



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**  
1 / 2 / 4 / 7 / 9 / 12.5 / 15.5 / 17 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

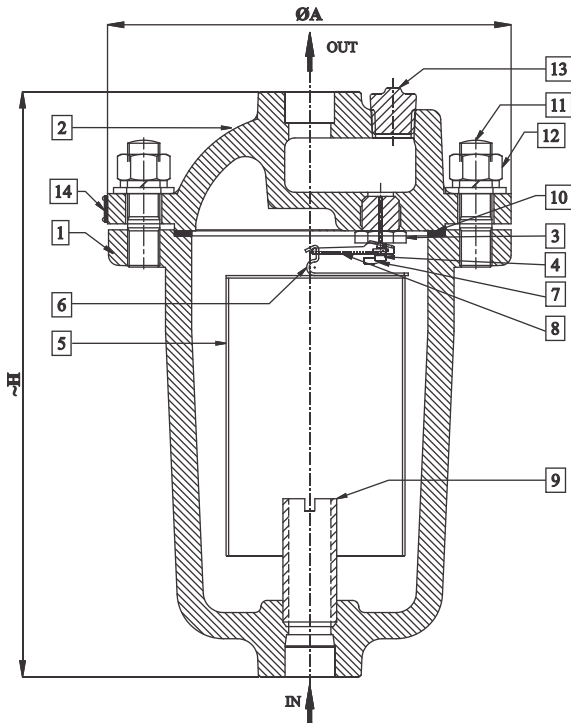
Maximum Operating Pressure :- 17 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400°C

**DESIGN CONDITIONS:-**

Maximum Design Pressure :- 17 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426°C

# Inverted Bucket Steam Trap

## UIBT - 1703

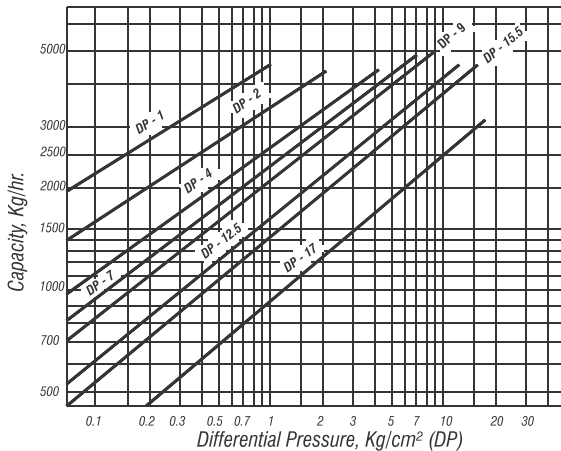


DIMENSIONS UIBT - 1703	
ØA	215.0 mm
~H	355.0 mm
WEIGHT (SW/SCREWED)	~23.0 Kgs

### BILL OF MATERIAL:

PART NO.	DESCRIPTION	M.O.C.
1	BODY	ASTM A 216 Gr. WCB
2	COVER	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 ASSEMBLY	AISI 304
8	LEVER ASSEMBLY	AISI 304
9	INLET TUBE	ASTM A 106 Gr. B
10	BODY GASKET	SPW AISI 316 + GRAPHITE
11	STUDS	ASTM A 193 Gr. B7
12	NUTS	ASTM A 193 Gr. 2H
13	PLUG	ASTM A 105
14	NAME PLATE	STAINLESS STEEL

FLOW CAPACITY CHART - UIBT - 1703



### 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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**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

**MATERIAL OF CONSTRUCTION:-**

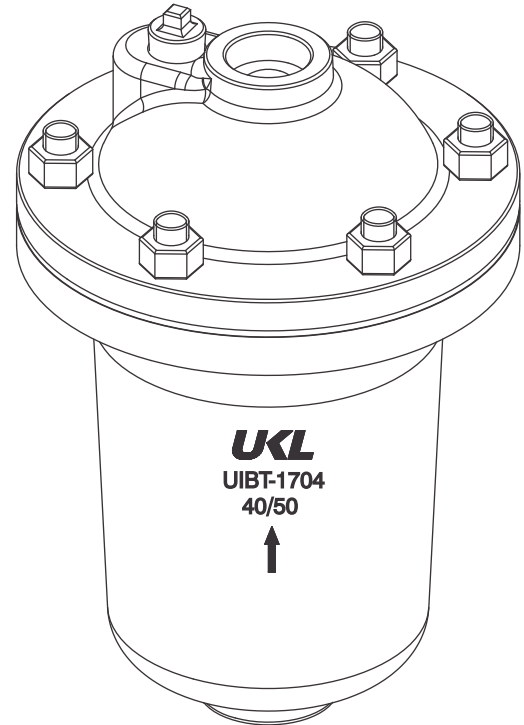
ASTM A216 Gr. WCB (Cast Carbon Steel)

**SIZES AVAILABLE:-**

40 NB & 50 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #150



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**  
1 / 1.7 / 3 / 4 / 5.5 / 8.5 / 12.5 / 17 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

Maximum Operating Pressure :- 17 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400°C

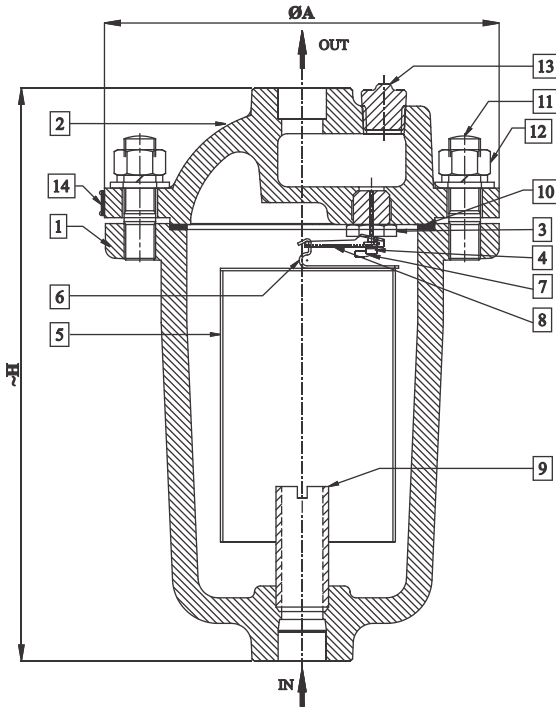
**DESIGN CONDITIONS:-**

Maximum Design Pressure :- 17 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426°C



# Inverted Bucket Steam Trap

## UIBT - 1704

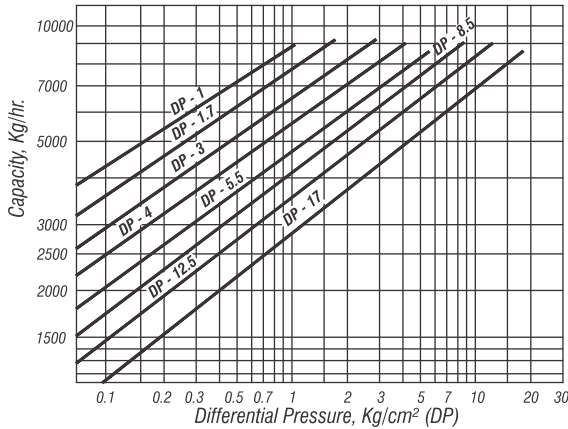


DIMENSIONS UIBT - 1704	
ØA	260.0 mm
~H	410.0 mm
WEIGHT (SW/SCREWED)	~40.0 Kgs

### BILL OF MATERIAL:

PART NO.	DESCRIPTION	M.O.C.
1	BODY	ASTM A 216 Gr. WCB
2	COVER	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 ASSEMBLY	AISI 304
8	LEVER ASSEMBLY	AISI 304
9	INLET TUBE	ASTM A 106 Gr. B
10	BODY GASKET	SPW AISI 316 + GRAPHITE
11	STUDS	ASTM A 193 Gr. B7
12	NUTS	ASTM A 193 Gr. 2H
13	PLUG	ASTM A 105
14	NAME PLATE	STAINLESS STEEL

FLOW CAPACITY CHART - UIBT - 1704



### 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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**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:-**

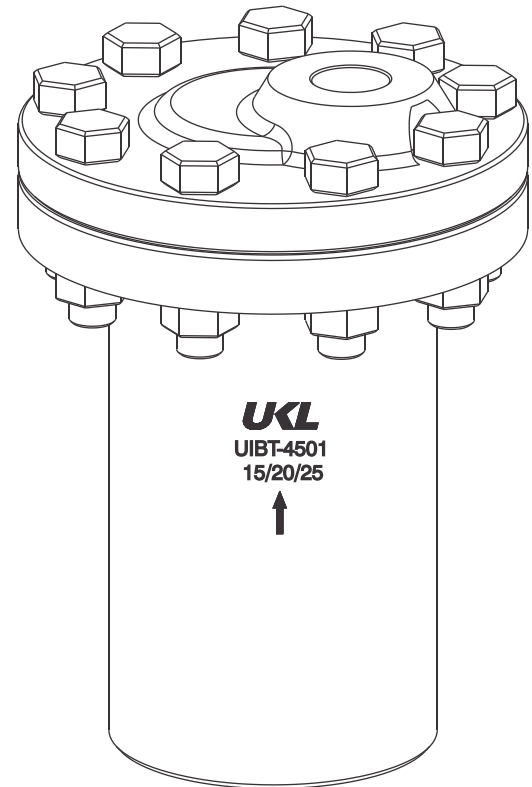
ASTM A216 Gr. WCB (Cast Carbon Steel)  
ASTM A217 Gr. WC6 /WC9 (Cast Alloy Steel) (Optional)

**SIZES AVAILABLE:-**

15 NB, 20 NB & 25 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #300



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1 / 2 / 4 / 5.5 / 8.5 / 12.5 / 17 / 31 / 45 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

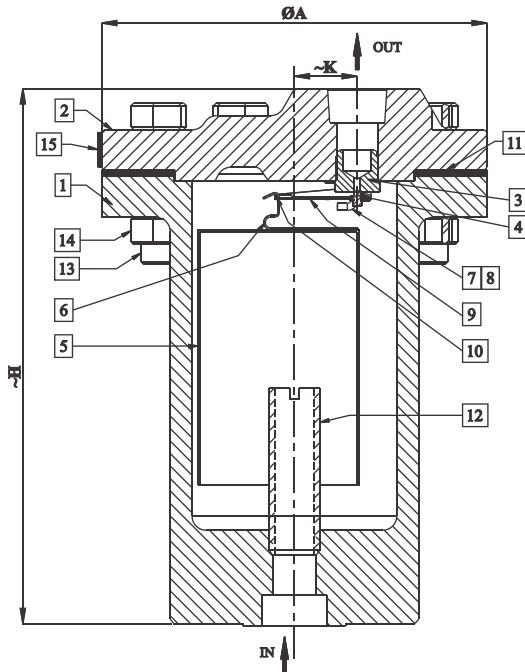
For ASTM A216 Gr. WCB  
Maximum Operating Pressure :- 45 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400°C

**DESIGN CONDITIONS:-**

For ASTM A216 Gr. WCB  
Maximum Design Pressure :- 45 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426°C

# Inverted Bucket Steam Trap

## UIBT - 4501

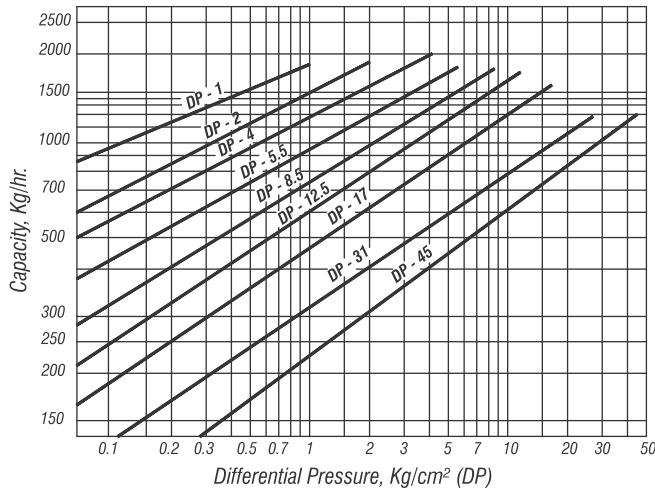


DIMENSIONS UIBT - 4501	
ØA	210 mm
~H	310 mm
~K	19 mm
WEIGHT (Screwed/SW)	~19 Kgs

### 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

### FLOW CAPACITY CHART - UIBT - 4501



**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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Steam used for secondary heating like coils, vessels, heat exchangers etc, generate a lot of condensate post heat transfer. This large quantity of condensate can be handled by the Inverted Bucket Trap. This condensate has a substantial heat component with cost tagged to it. Also this is treated & pure water and can be used as Feed water for the boiler, saving the cost of heating, water bill and treatment chemicals. Therefore it makes sense to recycle / reuse this condensate. This function is done by the Inverted Bucket Trap which works on the principle of buoyancy [density difference of Water and Steam]. The rise in condensate level fills and envelopes the bucket causing it to sink which opens the mechanically linked valve and discharges the condensate, and reverse when the level of condensate drops, steam enters the bucket, causes the flotation of the bucket which close the valve and stops condensate discharge & traps the live steam.

**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:-**

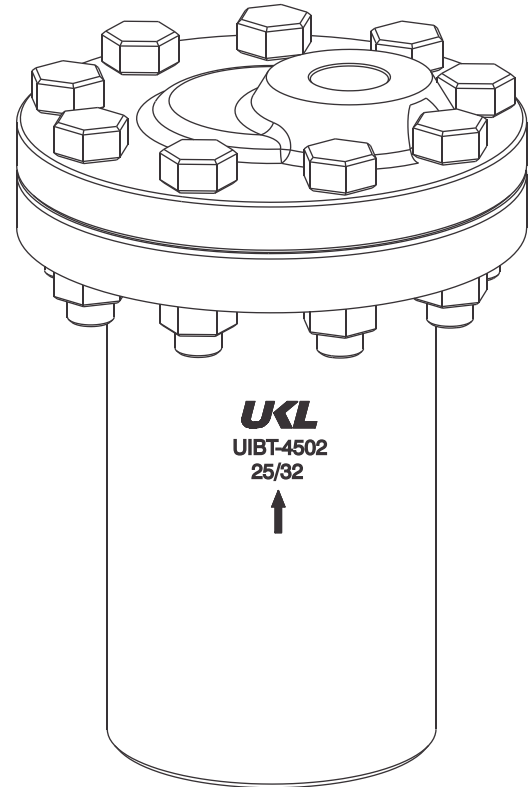
ASTM A216 Gr. WCB (Cast Carbon Steel)  
ASTM A217 Gr. WC6 /WC9 (Cast Alloy Steel) (Optional)

**SIZES AVAILABLE:-**

25 NB & 32 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #300



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1 / 2 / 4 / 5.5 / 8.5 / 12.5 / 17 / 26 / 38 / 45 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

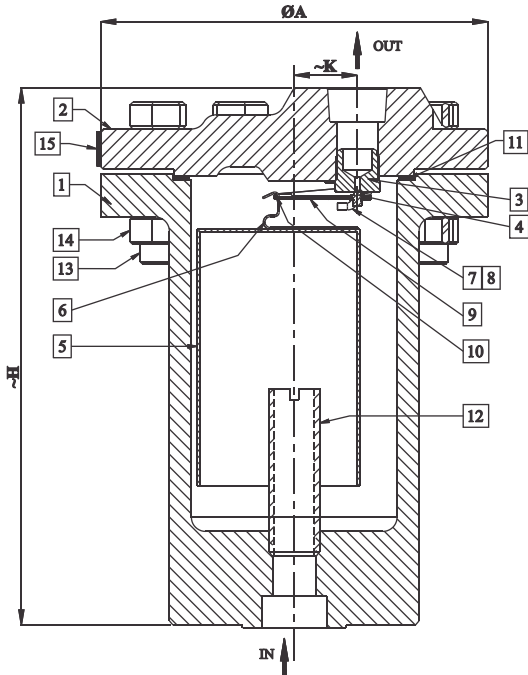
For ASTM A216 Gr. WCB  
Maximum Operating Pressure :- 45 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400°C

**DESIGN CONDITIONS:-**

For ASTM A216 Gr. WCB  
Maximum Design Pressure :- 45 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426°C

# Inverted Bucket Steam Trap

## UIBT - 4502

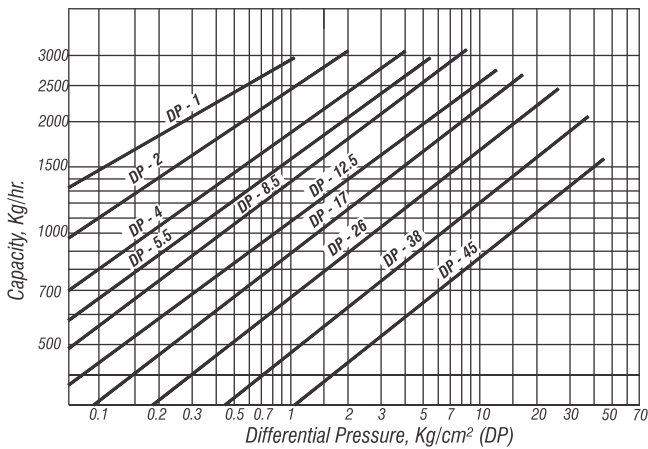


DIMENSIONS UIBT - 4502	
ØA	220 mm
~H	355 mm
~K	36.5 mm
WEIGHT (Screwed/SW)	~31 Kgs

### 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	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

FLOW CAPACITY CHART - UIBT - 4502



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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Steam used for secondary heating like coils, vessels, heat exchangers etc, generate a lot of condensate post heat transfer. This large quantity of condensate can be handled by the Inverted Bucket Trap. This condensate has a substantial heat component with cost tagged to it. Also this is treated & pure water and can be used as Feed water for the boiler, saving the cost of heating, water bill and treatment chemicals. Therefore it makes sense to recycle / reuse this condensate. This function is done by the Inverted Bucket Trap which works on the principle of buoyancy [density difference of Water and Steam]. The rise in condensate level fills and envelopes the bucket causing it to sink which opens the mechanically linked valve and discharges the condensate, and reverse when the level of condensate drops, steam enters the bucket, causes the flotation of the bucket which close the valve and stops condensate discharge & traps the live steam.

**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:-**

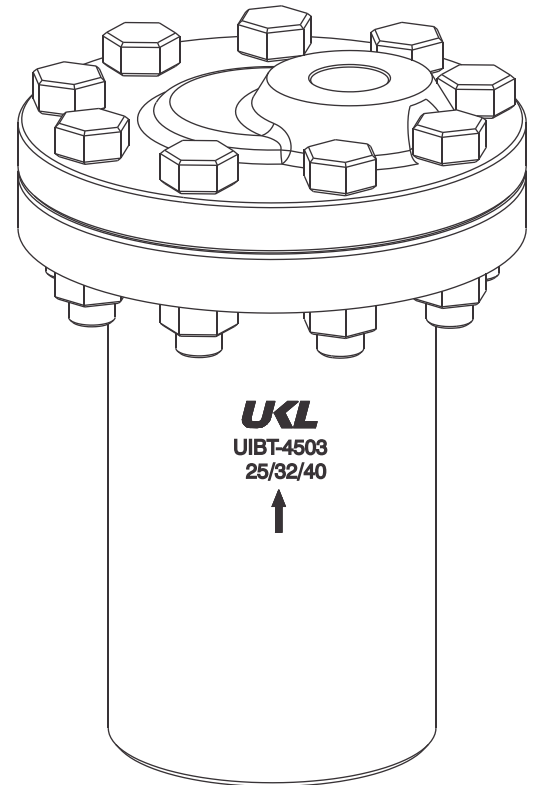
ASTM A216 Gr. WCB (Cast Carbon Steel)  
ASTM A217 Gr. WC6/WC9 (Cast Alloy Steel) (Optional)

**SIZES AVAILABLE:-**

25 NB, 32 NB & 40 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #300



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1 / 2 / 4 / 7 / 9 / 12.5 / 15.5 / 24 / 34.5 / 45 Kg/cm<sup>2</sup> (g)

**MAXIMUM OPERATING CONDITIONS:-**

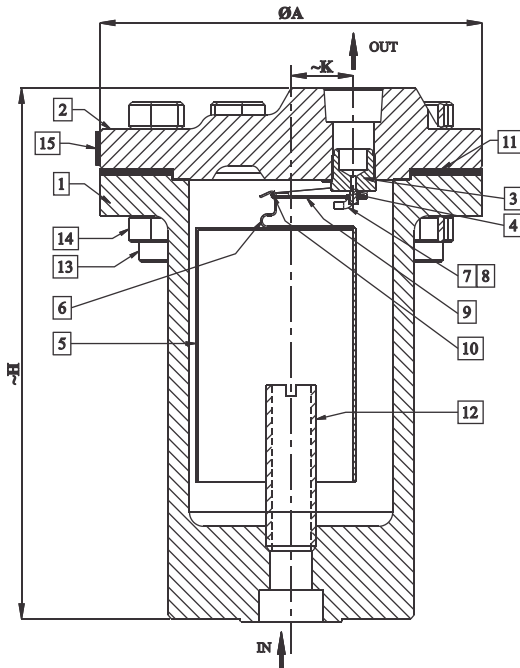
Maximum allowable pressure  
(vessel design)  
654 psig @ 700 oF (45 bar @ 427 oC)

**Maximum operating pressure**

Pressure : 654 psig (45 bar)

# Inverted Bucket Steam Trap

## UIBT - 4503

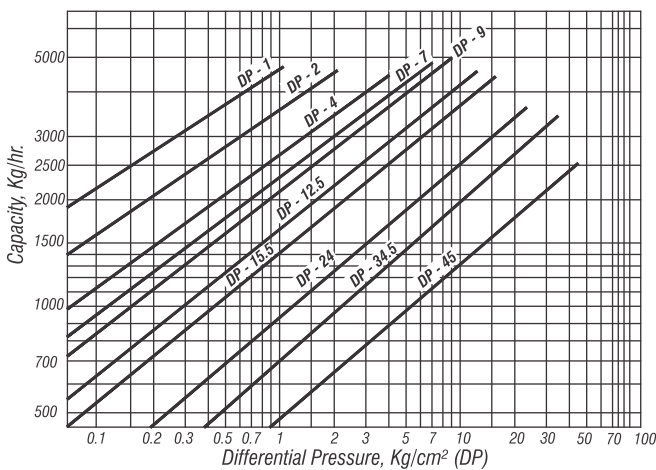


DIMENSIONS UIBT - 4503	
ØA	250 mm
~H	375 mm
~K	44.5 mm
WEIGHT (Screwed/SW)	~48 Kgs

### 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

FLOW CAPACITY CHART - UIBT - 4503



**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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**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:-**

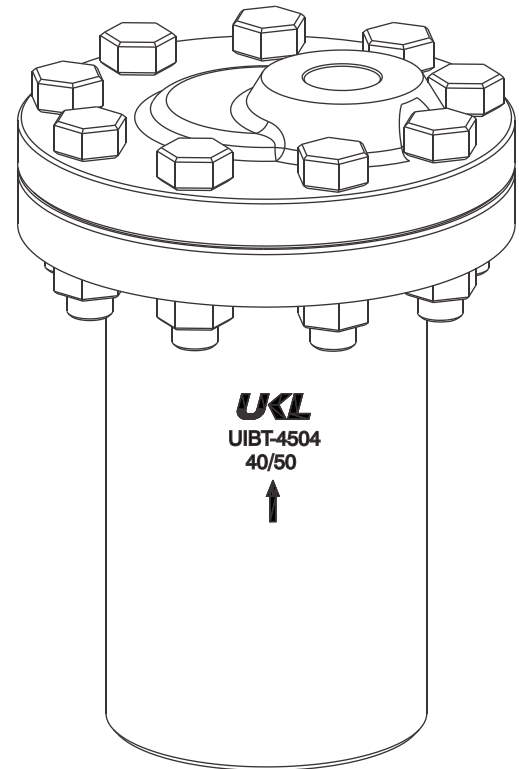
ASTM A216 Gr. WCB (Cast Carbon Steel)  
ASTM A217 Gr. WC6 /WC9 (Cast Alloy Steel) (Optional)

**SIZES AVAILABLE:-**

40 NB & 50 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #300 B 16.11  
Flanged End #300



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1 / 1.5 / 3 / 4 / 5.5 / 8.5 / 12.5 / 17 / 25.5 / 34.5 / 41.5 / 45 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

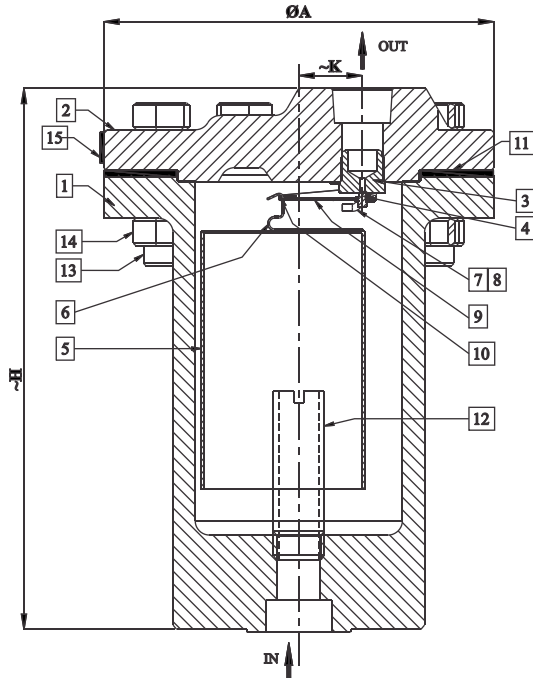
For ASTM A216 Gr. WCB  
Maximum Operating Pressure :- 45 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400°C

**DESIGN CONDITIONS:-**

For ASTM A216 Gr. WCB  
Maximum Design Pressure :- 45 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426°C

# Inverted Bucket Steam Trap

## UIBT - 4504

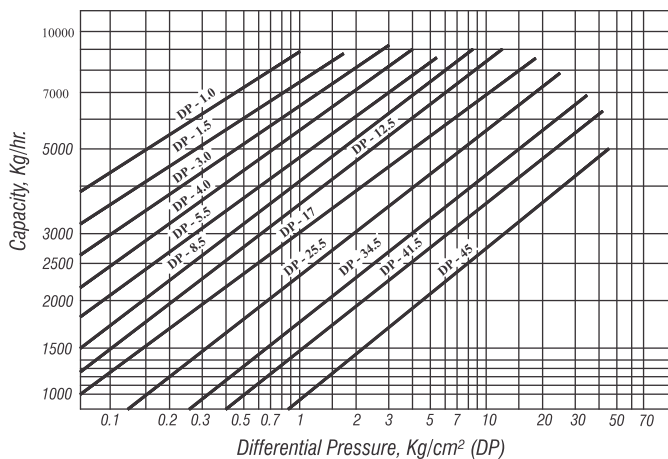


DIMENSIONS UIBT - 4504	
ØA	315 mm
~H	490 mm
~K	54 mm
WEIGHT (Screwed/SW)	~96 Kgs

### 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	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

FLOW CAPACITY CHART - UIBT - 4504



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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**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:-**

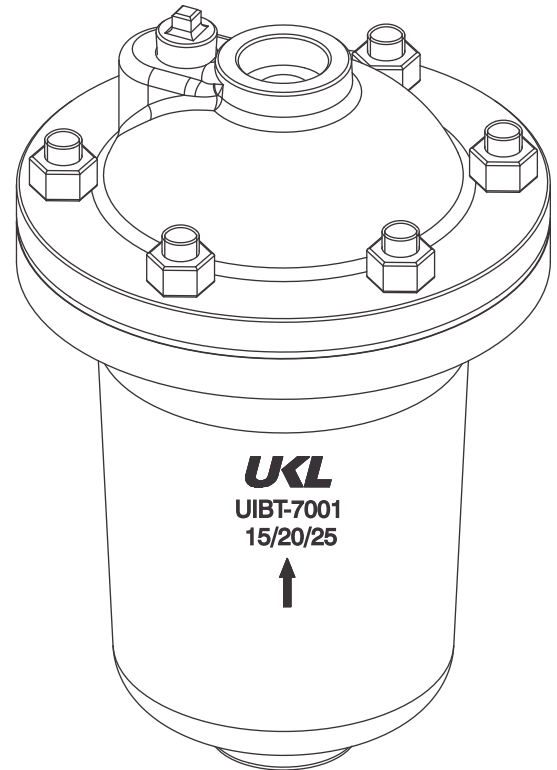
ASTM A216 Gr. WCB (Cast Carbon Steel)  
ASTM A217 Gr. WC6 /WC9 (Cast Alloy Steel) (Optional)

**SIZES AVAILABLE:-**

15 NB, 20 NB & 25 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #6001  
Flanged End #300



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1 / 2 / 4 / 5.5 / 8.5 / 12.5 / 17 / 31 / 65.5 / 69 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

For ASTM A216 Gr. WCB  
Maximum Operating Pressure :- 69 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400°C

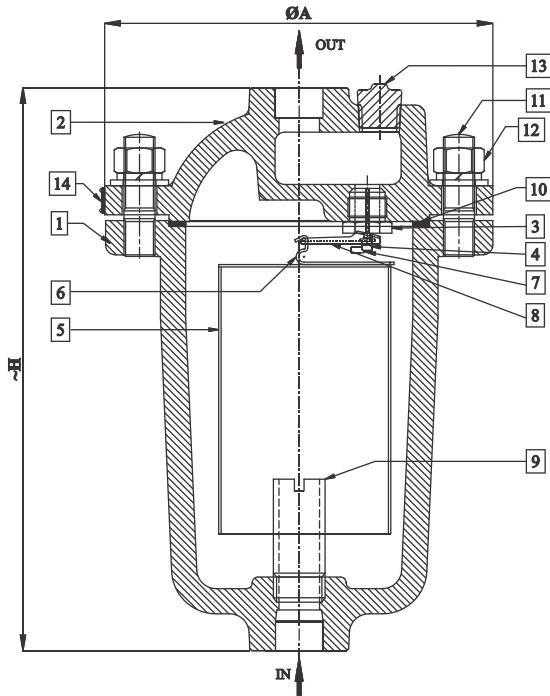
**DESIGN CONDITIONS:-**

For ASTM A216 Gr. WCB  
Maximum Design Pressure :- 69 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426°C



# Inverted Bucket Steam Trap

## UIBT - 7001

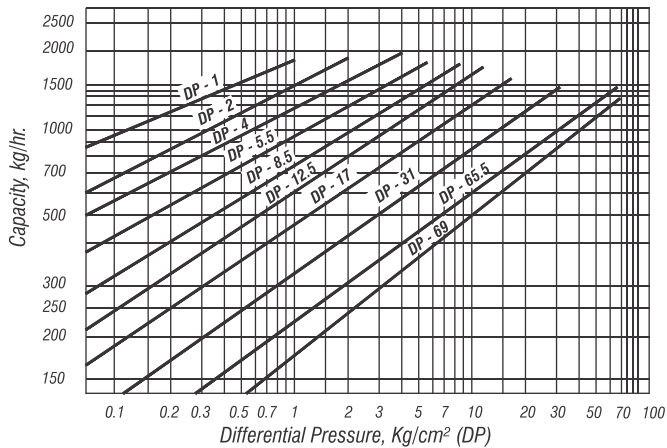


DIMENSIONS UIBT - 7001	
ØA	210.0 mm
~H	310.0 mm
WEIGHT (SW/SCREWED)	~19.0 Kgs

### BILL OF MATERIAL:-

PART NO.	DESCRIPTION	M.O.C.
1	BODY	ASTM A 216 Gr. WCB ASTM A 217 Gr. WC6 / WC9
2	COVER	ASTM A 216 Gr. WCB ASTM A 217 Gr. WC6 / WC9
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 ASSEMBLY	AISI 304
8	LEVER ASSEMBLY	AISI 304
9	INLET TUBE	ASTM A 106 Gr. B
10	BODY GASKET	SPW AISI 316 + GRAPHITE
11	STUDS	ASTM A 193 Gr. B7
12	NUTS	ASTM A 193 Gr. 2H
13	PLUG	ASTM A 105
14	NAME PLATE	STAINLESS STEEL

FLOW CAPACITY CHART - UIBT - 7001



### 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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**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:-**

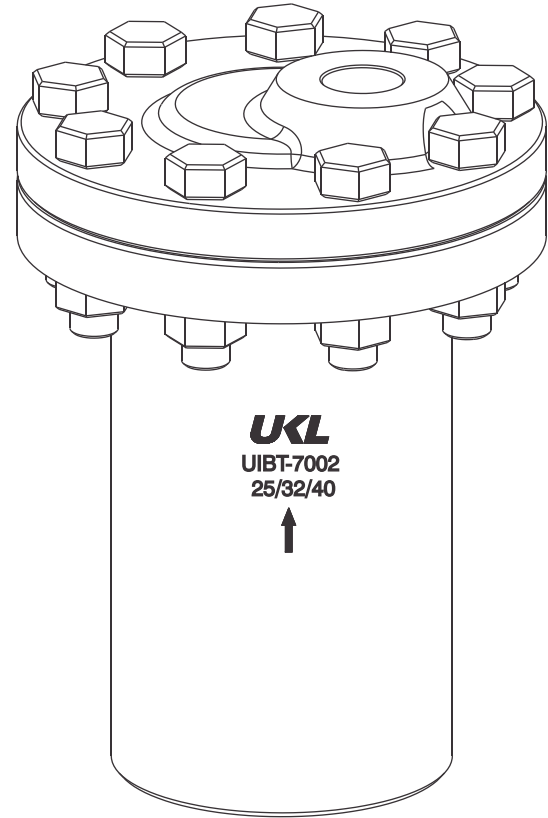
ASTM A216 Gr. WCB (Cast Carbon Steel)  
ASTM A217 Gr. WC6 /WC9 (Cast Alloy Steel) (Optional)

**SIZES AVAILABLE:-**

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/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

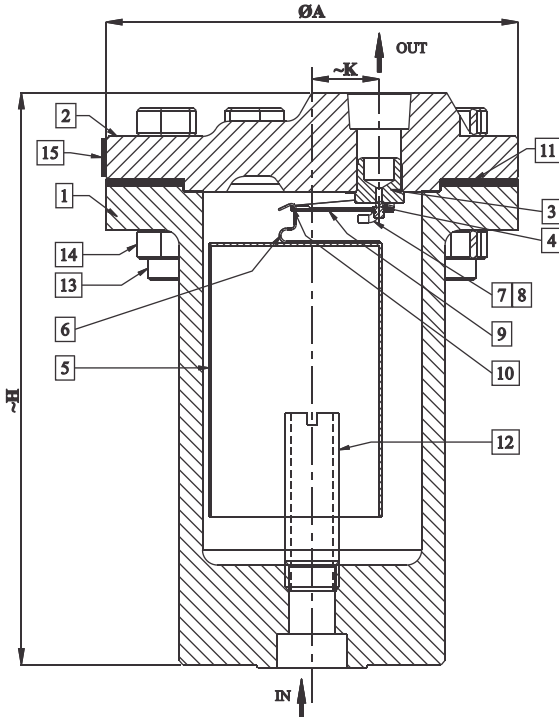
For ASTM A216 Gr. WCB  
Maximum Operating Pressure :- 69 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400°C

**DESIGN CONDITIONS:-**

For ASTM A216 Gr. WCB  
Maximum Design Pressure :- 69 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426°C

# Inverted Bucket Steam Trap

## UIBT - 7002

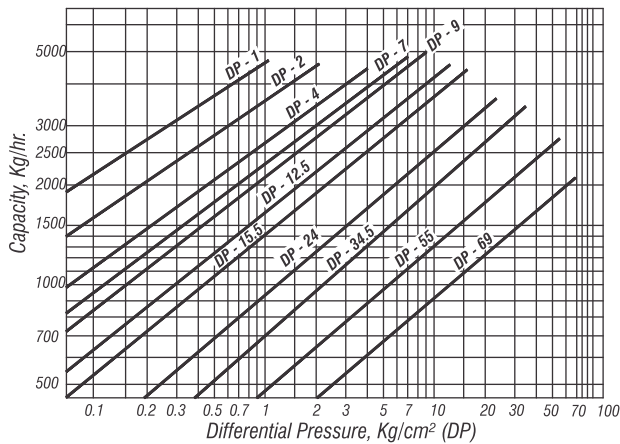


DIMENSIONS UIBT - 7002	
ØA	275 mm
~H	380 mm
~K	44 mm
WEIGHT (Screwed/SW)	~58 Kgs

### 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

FLOW CAPACITY CHART - UIBT - 7002



### 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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**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:-**

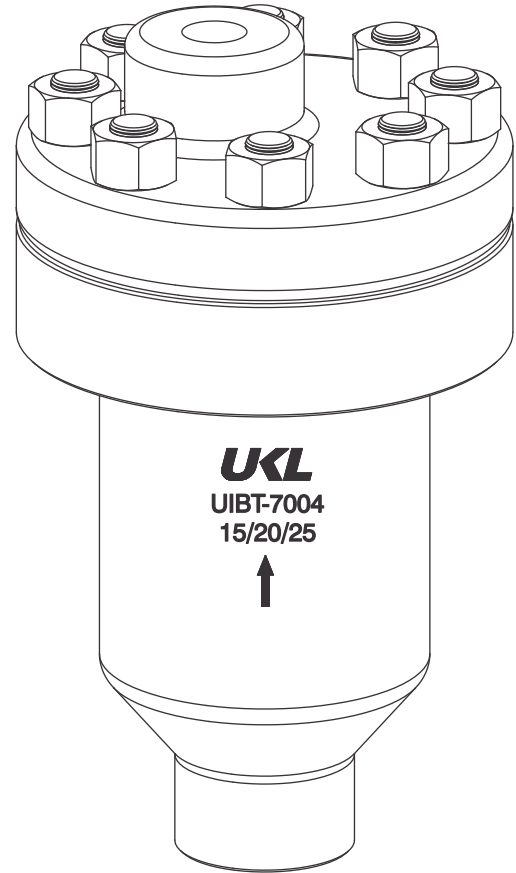
ASTM A 105 / ASTM A 182 Gr. F11 Cl.2 (Forged Steel)  
ASTM A 216 Gr.WCB / ASTM A 217 Gr.WC6 (Optional)

**SIZES AVAILABLE:-**

15 NB , 20 NB & 25 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 with external strainer (On Request)

**DIFFERENTIAL PRESSURE (DP) :-**

41 & 69 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

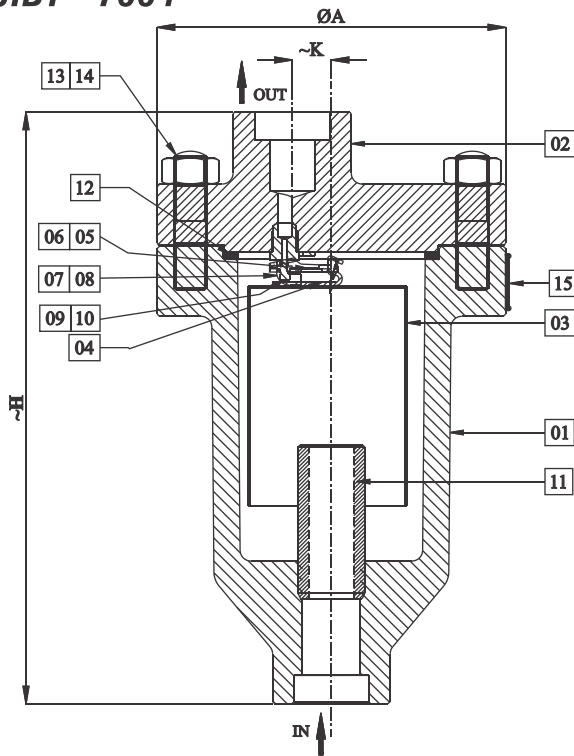
For ASTM A 105  
Maximum Operating Pressure :- 69 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400 °C

**DESIGN CONDITIONS:-**

Maximum Design Pressure :- 69 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426 °C

# Inverted Bucket Steam Trap

## UIBT - 7004

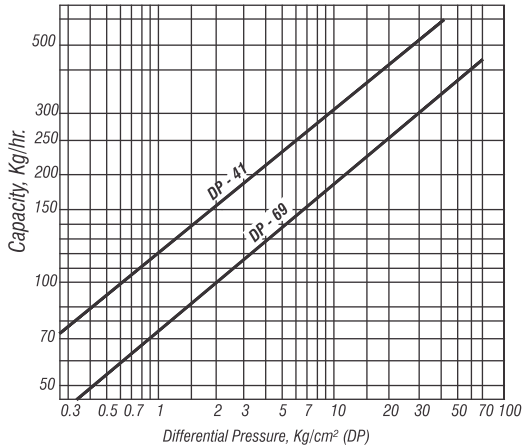


DIMENSIONS UIBT - 7004	
~K	20 mm
~H	275 mm
ØA	160 mm
WEIGHT (Screwed/SW)	~15 Kgs

### BILL OF MATERIAL:-

16	PIPE	ASTM A106 Gr.B / ASTM A 335 Gr. P11
15	NAME PLATE	AISI 304
14	NUTS	ASTM A 193 Gr. 2H
13	STUDS	ASTM A 193 Gr. B7
12	GASKET	SPW 316 + GRAPHITE
11	INLET TUBE	ASTM A106 Gr.B / ASTM A 312 TP.304
10	VALVE SEAT	ASTM A681 Gr. D2
09	VALVE PIN	ASTM A681 Gr. D2
08	BRACKET PIN	AISI 304
07	BRACKET	AISI 304
06	LEVER PIN	AISI 304
05	LEVER	AISI 304
04	BUCKET HOOK	AISI 304
03	BUCKET	AISI 304
02	COVER	ASTM A105 / ASTM A 182 Gr. F11 Cl.2
01	BODY	ASTM A105 / ASTM A 182 Gr. F11 Cl.2
ITEM	DESCRIPTION	M.O.C

FLOW CAPACITY CHART - UIBT - 7004



### 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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Steam used for secondary heating like coils, vessels, heat exchangers etc, generate a lot of condensate post heat transfer. This large quantity of condensate can be handled by the Inverted Bucket Trap. This condensate has a substantial heat component with cost tagged to it. Also this is treated & pure water and can be used as Feed water for the boiler, saving the cost of heating, water bill and treatment chemicals. Therefore it makes sense to recycle / reuse this condensate. This function is done by the Inverted Bucket Trap which works on the principle of buoyancy [density difference of Water and Steam]. The rise in condensate level fills and envelopes the bucket causing it to sink which opens the mechanically linked valve and discharges the condensate, and reverse when the level of condensate drops, steam enters the bucket, causes the flotation of the bucket which close the valve and stops condensate discharge & traps the live steam.

**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:-**

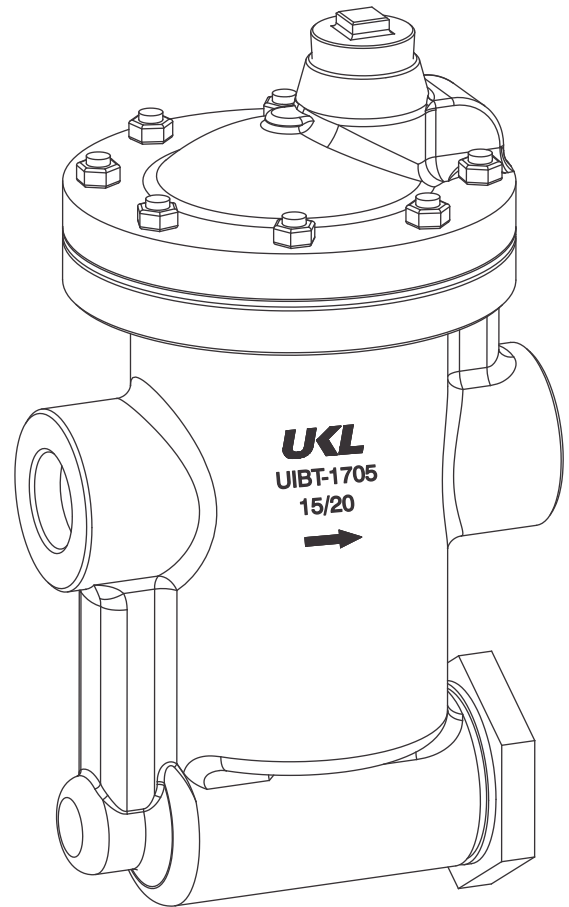
ASTM A216 Gr. WCB (Cast Carbon Steel)

**SIZES AVAILABLE:-**

15 NB & 20 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #150

**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**  
1 / 2 / 5 / 8.5 / 14 / 17 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

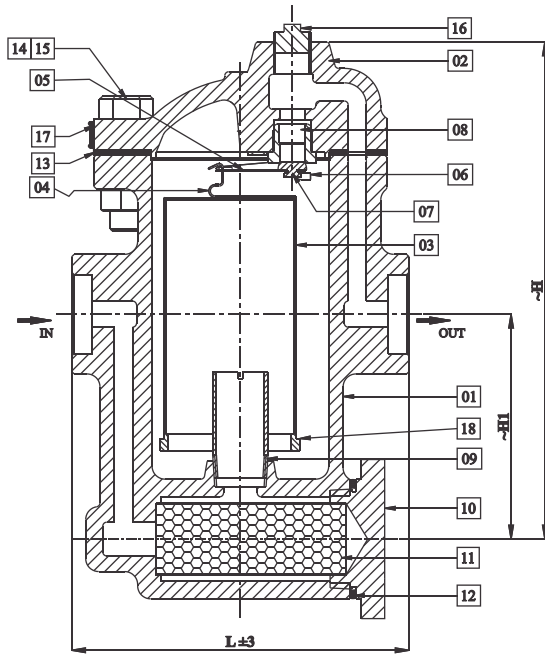
Maximum Operating Pressure :- 17 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400 °C

**DESIGN CONDITIONS:-**

Maximum Design Pressure :- 17.0 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426 °C

# Inverted Bucket Steam Trap

## UIBT - 1705

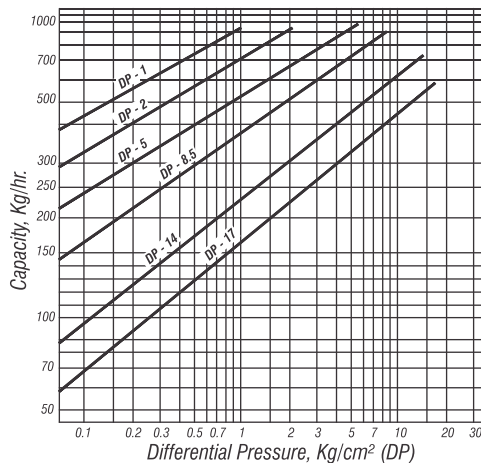


DIMENSIONS UIBT - 1705	
~H1	125 mm
~H	218 mm
L	165 mm
WEIGHT (SW/SCREWED)	~12 Kgs

### BILL OF MATERIAL:

ITEM	DESCRIPTION	M.O.C
01	BODY	ASTM A216 Gr. WCB
02	COVER	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	ASTM A106 Gr.B
10	FILTER CAP	ASTM A105
11	FILTER	AISI 304
12	SPW GASKET	AISI 316 WITH GRAPHITE
13	GASKET	CI-18
14	HEX BOLTS	GR. 8.8 / ASTM A 193 Gr. B7
15	NUTS	GR. 8 / ASTM A 193 Gr. 2H
16	END PLUGS	ASTM A105
17	NAME PLATE	AISI 304
18	BUCKET RING (Optional)	CARBON STEEL

FLOW CAPACITY CHART - UIBT - 1705



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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Steam used for secondary heating like coils, vessels, heat exchangers etc, generate a lot of condensate post heat transfer. This large quantity of condensate can be handled by the Inverted Bucket Trap. This condensate has a substantial heat component with cost tagged to it. Also this is treated & pure water and can be used as Feed water for the boiler, saving the cost of heating, water bill and treatment chemicals. Therefore it makes sense to recycle / reuse this condensate. This function is done by the Inverted Bucket Trap which works on the principle of buoyancy [density difference of Water and Steam]. The rise in condensate level fills and envelopes the bucket causing it to sink which opens the mechanically linked valve and discharges the condensate, and reverse when the level of condensate drops, steam enters the bucket, causes the flotation of the bucket which close the valve and stops condensate discharge & traps the live steam.

**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:-**

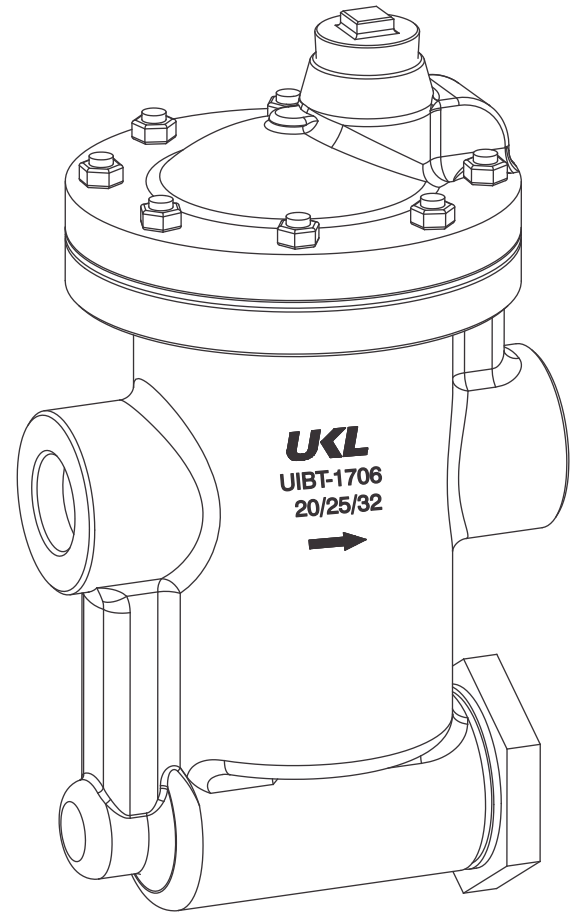
ASTM A216 Gr. WCB (Cast Carbon Steel)

**SIZES AVAILABLE:-**

20 NB, 25 NB & 32 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #150



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1 / 2 / 4 / 5.5 / 8.5 / 12.5 / 17 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

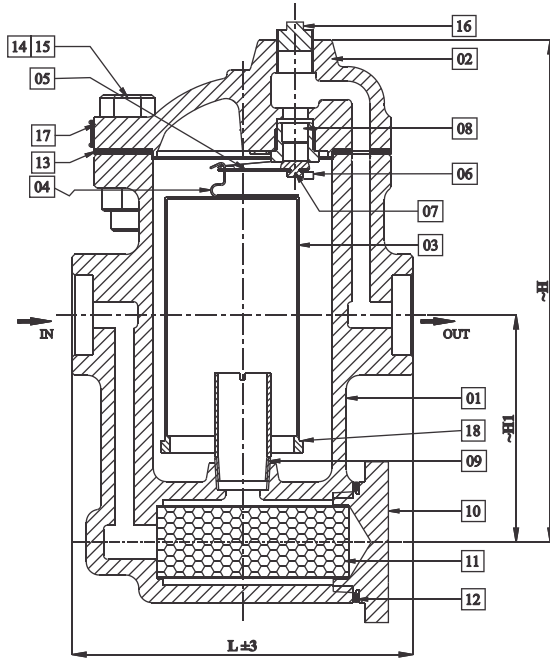
Maximum Operating Pressure :- 17 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400 °C

**DESIGN CONDITIONS:-**

Maximum Design Pressure :- 17.0 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426 °C

# Inverted Bucket Steam Trap

## UIBT - 1706

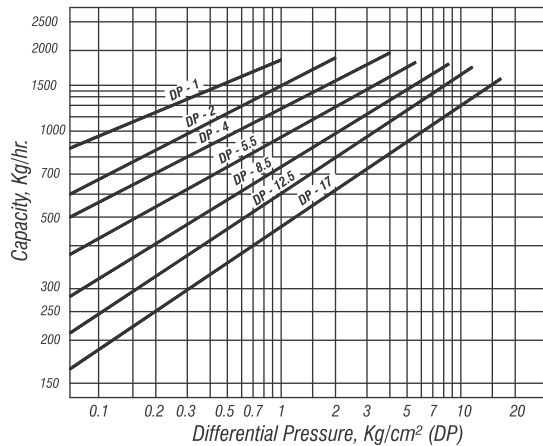


DIMENSIONS UIBT - 1706	
~H1	162 mm
~H	290 mm
L	210 mm
WEIGHT (SW/SCREWED)	~20 Kgs

### BILL OF MATERIAL:-

ITEM	DESCRIPTION	M.O.C
01	BODY	ASTM A216 Gr. WCB
02	COVER	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	ASTM A106 Gr.B
10	FILTER CAP	ASTM A105
11	FILTER	AISI 304
12	SPW GASKET	AISI 316 WITH GRAPHITE
13	GASKET	CI-18
14	HEX BOLTS	GR. 8.8 / ASTM A 193 Gr. B7
15	NUTS	GR. 8 / ASTM A 193 Gr. 2H
16	END PLUGS	ASTM A105
17	NAME PLATE	STAINLESS STEEL
18	BUCKET RING (Optional)	CARBON STEEL

FLOW CAPACITY CHART - UIBT - 1706



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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**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:-**

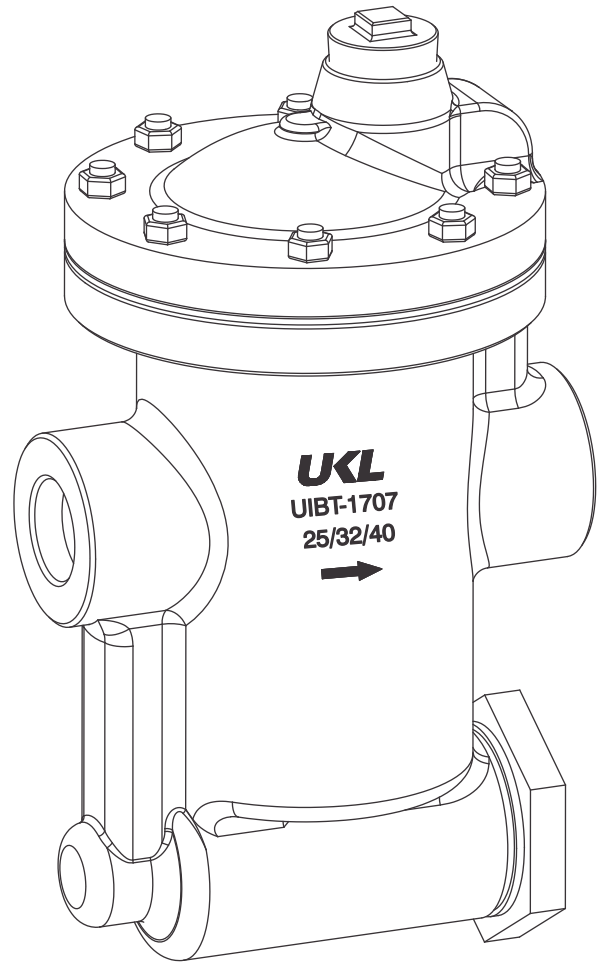
ASTM A216 Gr. WCB (Cast Carbon Steel)

**SIZES AVAILABLE:-**

25 NB, 32 NB & 40 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End # 150



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1/2 /4 /7/9/12.5/15.5/17 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

Maximum Operating Pressure :- 17 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400 °C

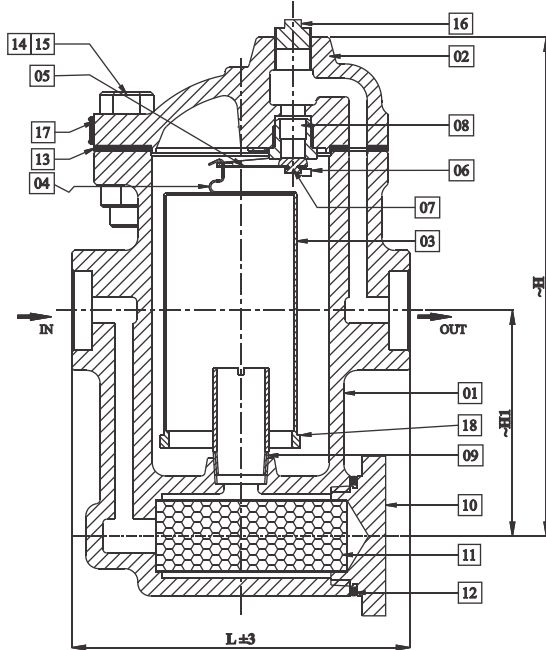
**DESIGN CONDITIONS:-**

Maximum Design Pressure :- 17.0 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426 °C



# Inverted Bucket Steam Trap

## UIBT - 1707

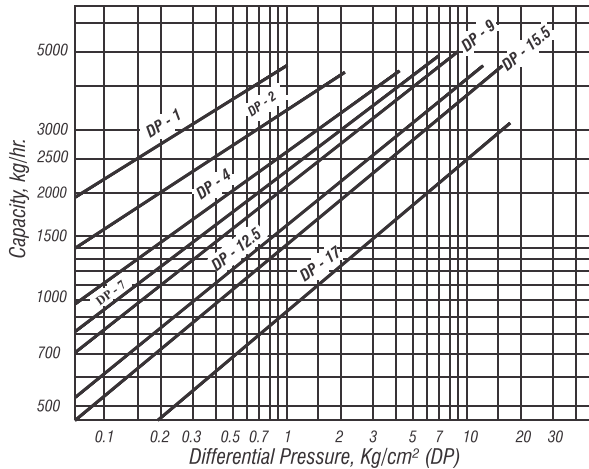


DIMENSIONS UIBT - 1707	
~H1	173 mm
~H	382 mm
L	262 mm
WEIGHT (SW/SCREWED)	~42 Kgs

### BILL OF MATERIAL:-

ITEM	DESCRIPTION	M.O.C
01	BODY	ASTM A216 Gr. WCB
02	COVER	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	ASTM A106 Gr.B
10	FILTER CAP	ASTM A105
11	FILTER	AISI 304
12	SPW GASKET	AISI 316 WITH GRAPHITE
13	GASKET	CI-18
14	HEX BOLTS	GR. 8.8 / ASTM A 193 Gr. B7
15	NUTS	GR. 8 / ASTM A 193 Gr. 2H
16	END PLUGS	ASTM A105
17	NAME PLATE	STAINLESS STEEL
18	BUCKET RING (Optional)	CARBON STEEL

FLOW CAPACITY CHART - UIBT - 1707



### 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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**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:-**

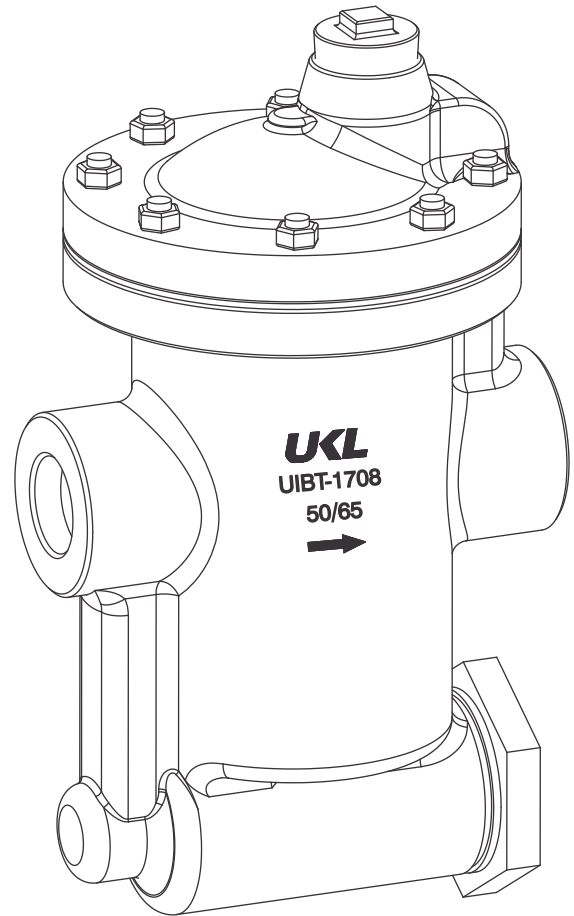
ASTM A216 Gr. WCB (Cast Carbon Steel)

**SIZES AVAILABLE:-**

50 NB & 65 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #150



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1 / 1.7 / 3 / 4 / 5.5 / 8.5 / 12.5 / 17 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

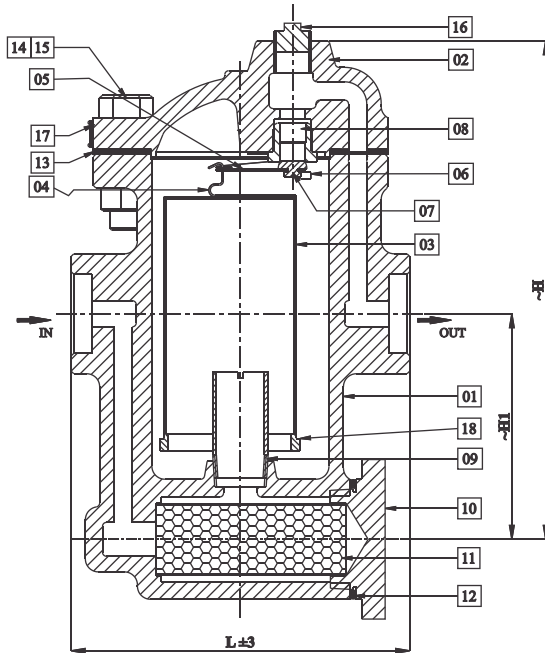
Maximum Operating Pressure :- 17 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400 °C

**DESIGN CONDITIONS:-**

Maximum Design Pressure :- 17.0 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426 °C

# Inverted Bucket Steam Trap

## UIBT - 1708

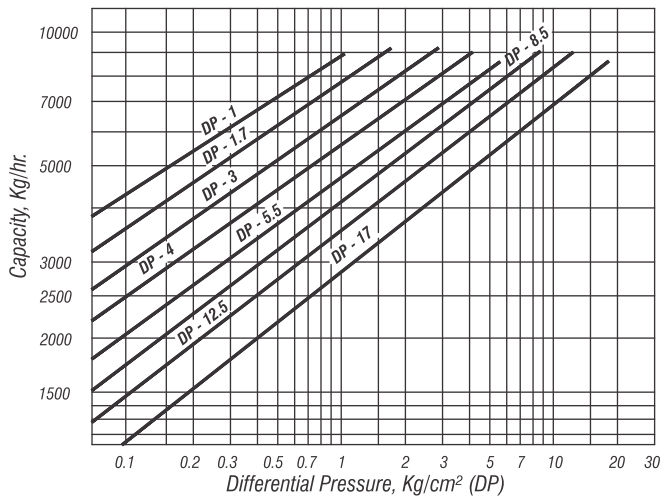


DIMENSIONS UIBT - 1708	
~H1	230 mm
~H	480 mm
L	330 mm
WEIGHT (SW/SCREWED)	~69 Kgs

### BILL OF MATERIAL:-

ITEM	DESCRIPTION	M.O.C
01	BODY	ASTM A216 Gr. WCB
02	COVER	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	ASTM A106 Gr.B
10	FILTER CAP	ASTM A105
11	FILTER	AISI 304
12	SPW GASKET	AISI 316 WITH GRAPHITE
13	GASKET	CI-18
14	HEX BOLTS	GR. 8.8 / ASTM A 193 Gr. B7
15	NUTS	GR. 8 / ASTM A 193 Gr. 2H
16	END PLUGS	ASTM A105
17	NAME PLATE	STAINLESS STEEL
18	BUCKET RING (Optional)	CARBON STEEL

FLOW CAPACITY CHART - UIBT - 1708



**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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#### 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:-

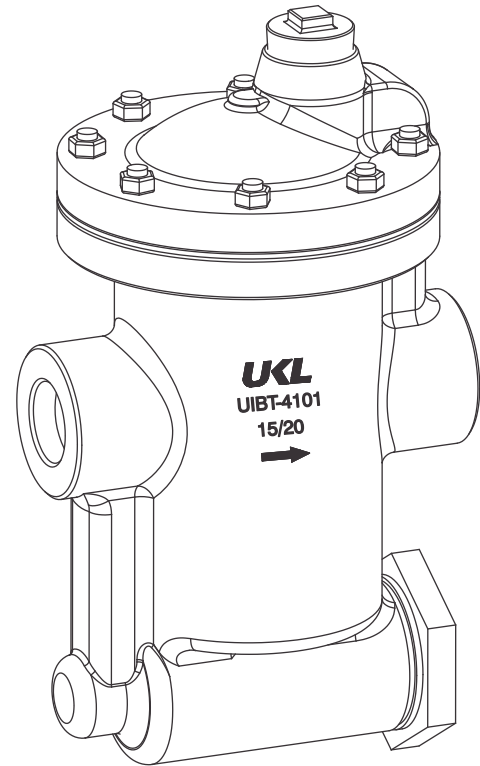
ASTM A216 Gr. WCB (Cast Carbon Steel)

#### SIZES AVAILABLE:-

15 NB & 20 NB

#### END CONNECTIONS:-

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #300



#### OPTIONAL:-

IBR (On Request)  
Flanged End Connections

#### AVAILABLE DIFFERENTIAL

##### PRESSURE (DP) :-

1.4 / 3.5 / 6 / 12 / 17 / 22.5 / 41 Kg/cm<sup>2</sup> (g)

#### OPERATING CONDITIONS:-

Maximum Operating Pressure :- 41 Kg/cm<sup>2</sup> (g)

Maximum Operating Temperature :- 400 °C

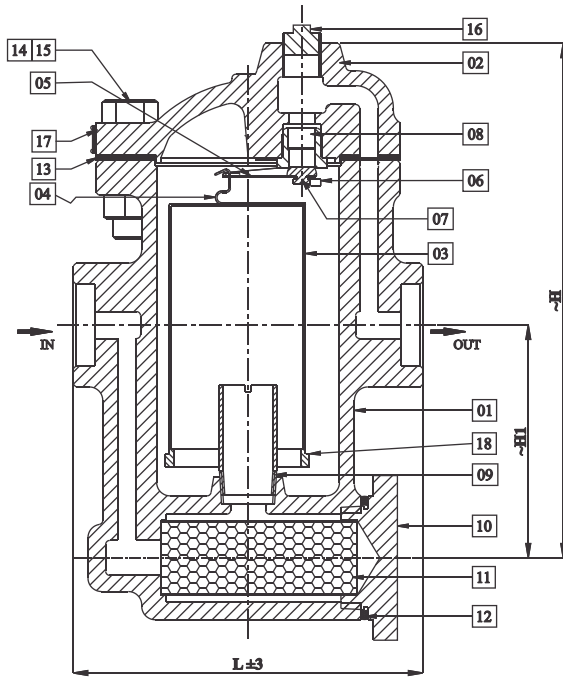
#### DESIGN CONDITIONS:-

Maximum Design Pressure :- 41.0 Kg/cm<sup>2</sup> (g)

Maximum Design Temperature :- 426 °C

# Inverted Bucket Steam Trap

## UIBT - 4101

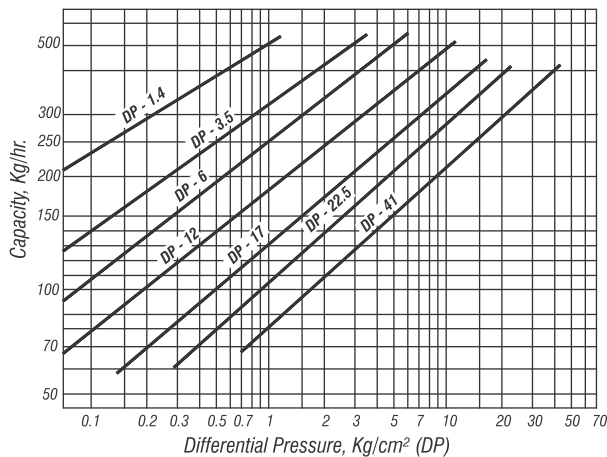


DIMENSIONS UIBT - 4101	
~H1	100 mm
~H	195 mm
L	140 mm
WEIGHT (SW/SCREWED)	~9 Kgs

### BILL OF MATERIAL:-

ITEM	DESCRIPTION	M.O.C
01	BODY	ASTM A216 Gr. WCB
02	COVER	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	ASTM A106 Gr.B
10	FILTER CAP	ASTM A105
11	FILTER	AISI 304
12	SPW GASKET	AISI 316 WITH GRAPHITE
13	GASKET	CI-18
14	HEX BOLTS	GR. 8.8 / ASTM A 193 Gr. B7
15	NUTS	GR. 8 / ASTM A 193 Gr. 2H
16	END PLUGS	ASTM A105
17	NAME PLATE	STAINLESS STEEL
18	BUCKET RING (Optional)	CARBON STEEL

FLOW CAPACITY CHART - UIBT - 4101



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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Steam used for secondary heating like coils, vessels, heat exchangers etc, generate a lot of condensate post heat transfer. This large quantity of condensate can be handled by the Inverted Bucket Trap. This condensate has a substantial heat component with cost tagged to it. Also this is treated & pure water and can be used as Feed water for the boiler, saving the cost of heating, water bill and treatment chemicals. Therefore it makes sense to recycle / reuse this condensate. This function is done by the Inverted Bucket Trap which works on the principle of buoyancy [density difference of Water and Steam]. The rise in condensate level fills and envelopes the bucket causing it to sink which opens the mechanically linked valve and discharges the condensate, and reverse when the level of condensate drops, steam enters the bucket, causes the flotation of the bucket which close the valve and stops condensate discharge & traps the live steam.

**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:-**

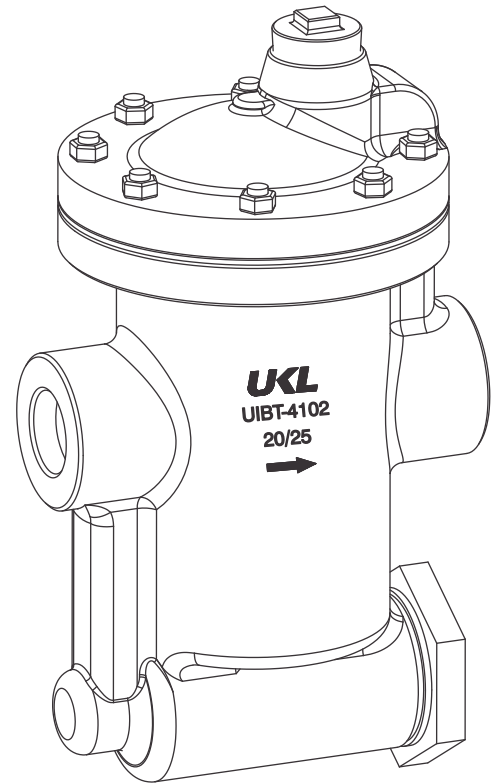
ASTM A216 Gr. WCB (Cast Carbon Steel)

**SIZES AVAILABLE:-**

20 NB & 25 NB

**END CONNECTIONS:-**

Screwed to BSP / BSPT / NPT  
Socket Weld to ASME B 16.11  
Flanged End #300



**OPTIONAL:-**

IBR (On Request)  
Flanged End Connections

**AVAILABLE DIFFERENTIAL**

**PRESSURE (DP) :-**

1 / 2 / 4 / 5.5 / 8.5 / 12.5 / 17 / 31 / 41 Kg/cm<sup>2</sup> (g)

**OPERATING CONDITIONS:-**

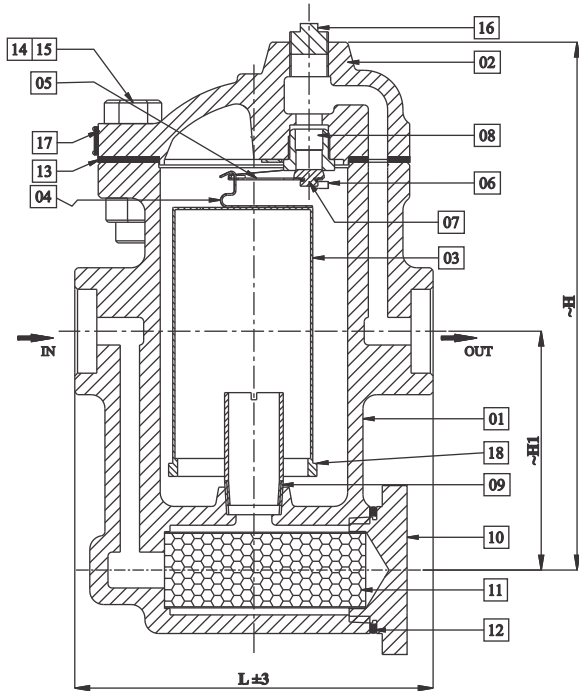
Maximum Operating Pressure :- 41 Kg/cm<sup>2</sup> (g)  
Maximum Operating Temperature :- 400 °C

**DESIGN CONDITIONS:-**

Maximum Design Pressure :- 41.0 Kg/cm<sup>2</sup> (g)  
Maximum Design Temperature :- 426 °C

# Inverted Bucket Steam Trap

## UIBT - 4102

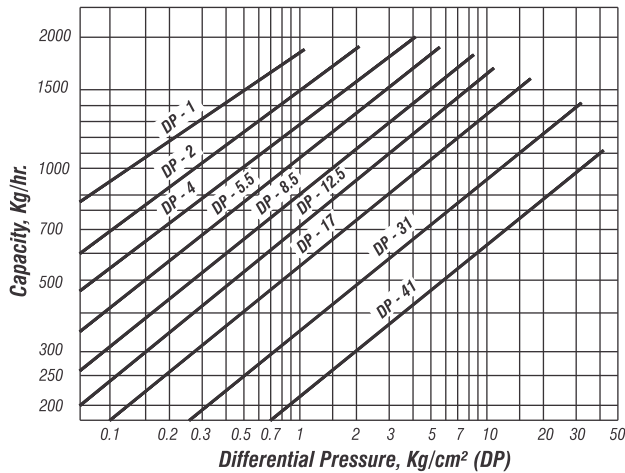


DIMENSIONS UIBT - 4102	
~H1	160 mm
~H	295 mm
L	215 mm
WEIGHT (SW/SCREWED)	~24 Kgs

### BILL OF MATERIAL:-

ITEM	DESCRIPTION	M.O.C
01	BODY	ASTM A216 Gr. WCB
02	COVER	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	ASTM A106 Gr.B
10	FILTER CAP	ASTM A105
11	FILTER	AISI 304
12	SPW GASKET	AISI 316 WITH GRAPHITE
13	GASKET	CI-18
14	HEX BOLTS	GR. 8.8 / ASTM A 193 Gr. B7
15	NUTS	GR. 8 / ASTM A 193 Gr. 2H
16	END PLUGS	ASTM A105
17	NAME PLATE	STAINLESS STEEL
18	BUCKET RING (Optional)	CARBON STEEL

FLOW CAPACITY CHART - UIBT - 4102



### 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

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.



## HARSH ENGINEERING SALES & SERVICE PVT. LTD

Only Authorized Dealers for UNI KLINGER products, Telangana

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