

UKL INTEGRAL TRAP VALVE STATION :

This unit offers a compact one piece solution, with inbuilt Piston Valves and attached with steam traps UIBT-28US replacing the conventional complex & elaborate Trap Modules.

UITVS-3E is compact design which includes Upstream Isolation valve & Downstream Isolation valve to isolate steam while doing any maintenance work, Other valves like Filter blowdown valve to remove dirt present in media, Trap test valve to monitor the trap are separately attached as per requirement.

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.

The UITVS-3E comes with various benefits like reduced cost, easy handling, compactness, less maintenance, multiple functions

MATERIAL OF CONSTRUCTION (UITVS-3E) :

ASTM A351. Gr. CF8M

MATERIAL OF CONSTRUCTION (UIBT-28US) :

ASTM A 351 Gr. CF8

ASTM A 240 TP304 L

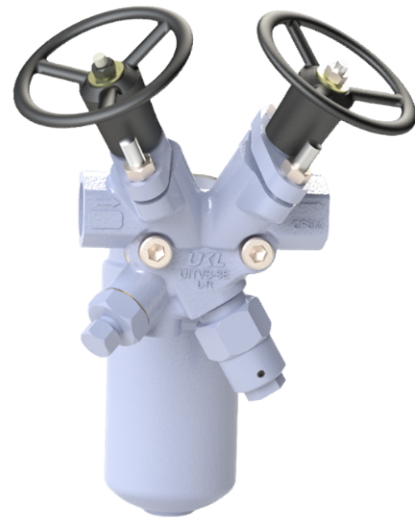
SIZES AVAILABLE:-

15NB (½"), 20NB (¾")

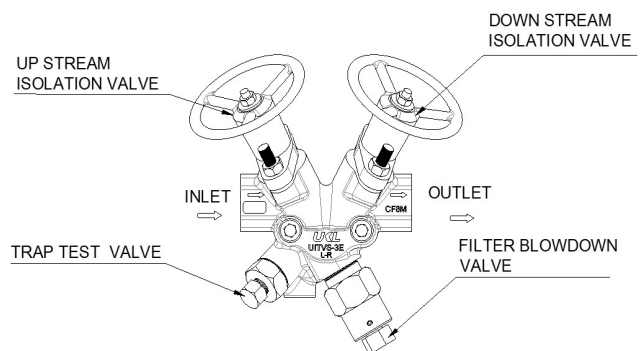
Socket Weld As Per ASME B 16.11 #3000

INSTALLATION:-

Preferably in horizontal position



GENERAL ARRANGEMENT OF UITVS-3E



OPERATING CONDITIONS

MOC- ASTM A 351 Gr. CF8M	
End Conn.	Socket weld End
Max. Allowable Pressure.	28 Kg/cm ²
Max Allowable Temperature	425 °C
Max. Operating Pressure	28 Kg/cm ²
Max. Operating Temperature	400 °C
Hydro Test Pressure	42 Kg/cm ²

ON REQUEST:-

IBR/Non-IBR

Other sizes with connector Weldon

Flanges weld on type

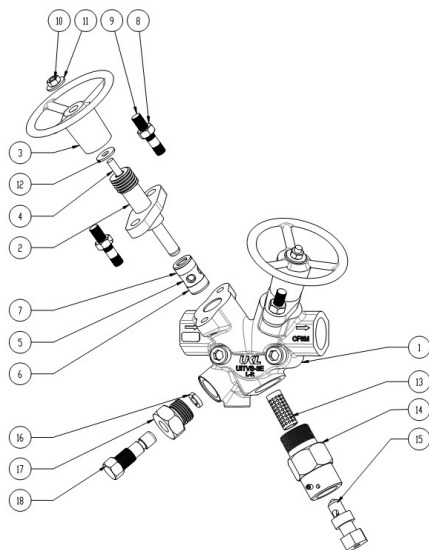
Available in Differential Pressure(kg/cm²) :-

5/8.5/14/17/28

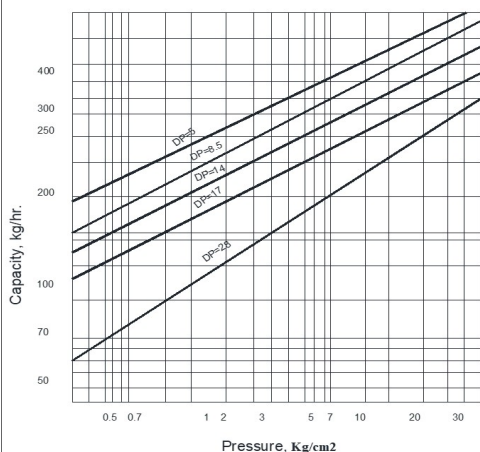
Orientation L-R or R-L available

Notations	Dimensions (mm)	
	15 NB	20 NB
Approx. Weight(kg)	6.5 Kg	6.5 Kg

BILL OF MATERIAL OF UITVS-3E:-

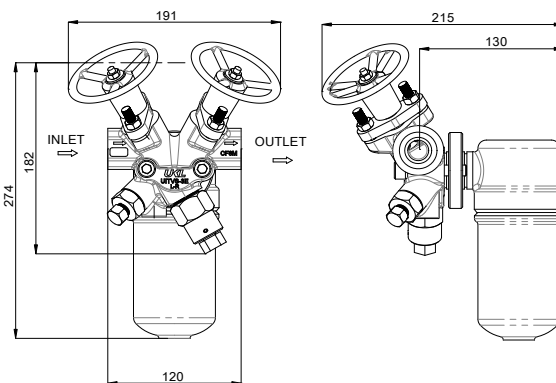


Flow Chart - UIBT - 28US



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 / AISI 410 / 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

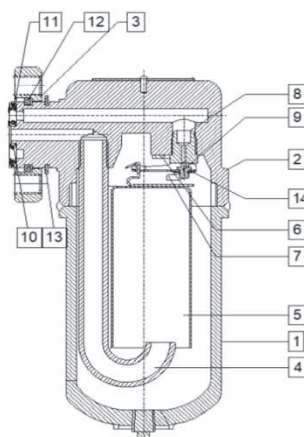
GENERAL DIMENSIONS OF UITVS-3E-28US :-



BILL OF MATERIAL OF UITVS-3E

No.	PART NAME	MATERIAL CODE
1	BODY	ASTM A351 Gr. CF8M
2	BONNET	ASTM A 182 F316
3	HAND WHEEL	ASTM A 216 Gr. WCB
4	SPINDLE (INTEGRAL PISTON)	ASTM A 276 TP 410
5	LANTERN BUSH	ASTM A 276 TP 410
6	LOWER VALVE RING	UKL STD.
7	UPPER VALVE RING	UKL STD.
8	BONNET NUT M8	ASTM A 194 Gr. 8M
9	STUD	ASTM A 193 Gr. B8M
10	HAND WHEEL NUT M6	AISI 316
11	PLAIN WASHER	AISI 304
12	BELLEVILLE WASHER	50 Cr. V4
13	FILTER	AISI 304
14	FILTER CAP	AISI 316 / 304
15	FILTER BLOWDOWN SCREW	AISI 304
16	TRAP TEST CLIP	AISI 316
17	TRAP TEST BODY	AISI 316
18	TRAP TEST STEM	AISI 316

BILL OF MATERIAL OF UIBT:-



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 Sheet / Cut Gaskets, Spiral Wound Gaskets.



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

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