

UNI KLINGER Steam Injector :

UKL steam injectors use steam to raise the temperature of water or other liquids. They work by using a jet of steam to draw in the liquid through radial ports, mix it, and distribute the heated liquid throughout the tank or vessel. The circulation induced by the injector ensures thorough mixing and avoids temperature stratification. Five sizes of injectors are available to meet a wide range of flow rates.

All models and sizes have by default a female thread for a easy & direct mounting through the tank wall from the outside pipe-work.

For higher capacities, two or more injectors may be mounted in parallel.

Material of Construction :

Austenitic Stainless steel – ASTM A 276 SS316L
 Provides improved resistance to pitting corrosion in chloride environments

Limiting Operating Conditions :

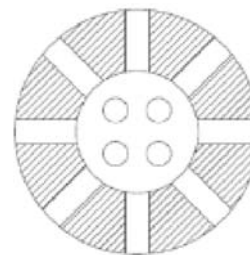
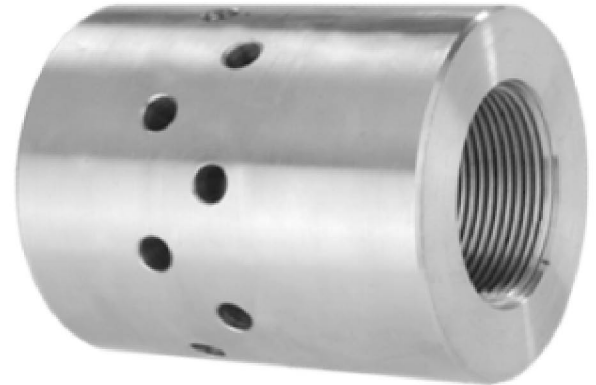
Max Operating Pressure :- 10.54 Kg/cm²
 Max Operating Temperature :- 200 °C

Sizes available :

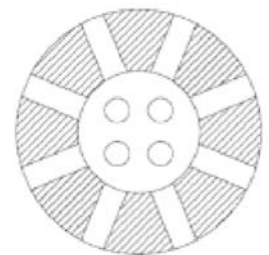
15, 20, 25, 40 & 50 NB

End Connection :

Screwed ends to BSP / BSPT / NPT



Radial Ports
[Set 1]



Radial Ports
[Set 2]

Applications :

- Ideal for boiler feed water heating & de-aeration
- For efficient steam heating of water / other fluids

Salient Features :

- Complete Stainless Steel construction
- Heats, mixes & circulates – no moving parts
- Very compact – requires very less space
- Unique & precise angular design

Optional :

Material – ASTM A 276 SS304L
 Flanged End - # 150/#30

Installation :

Preferably Horizontal

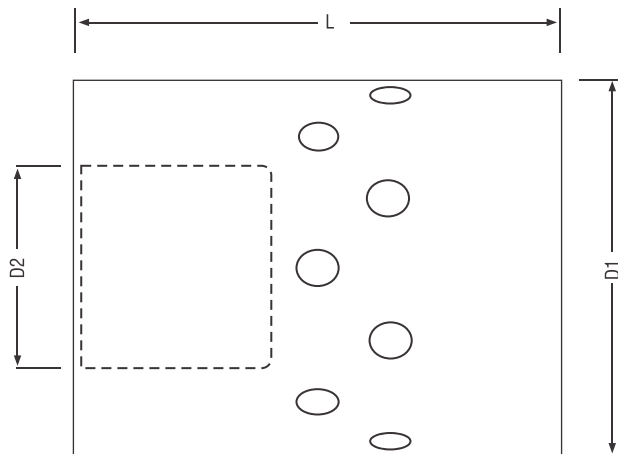
STEAM INJECTOR

USI – 15, 20, 25, 40 & 50 NB

Capacity – Selecting an appropriate steam injector

The choice of size of steam injector depends on the flow rate of the steam, required to heat the water / liquid. Water which is referred here is particularly meant for the feed water inside the feed water tank. So it is equally important to calculate the desired feed water temperature. The table below shows the steam injector capacities in kg/hr of injected steam when heating tanks are vented to atmosphere, and are up to 3 meters deep. The choice of control valve size also can affect the steam capacity.

For any assistance required for the detailed calculations for achieving desired feed water temperature or for effective de-aeration process, request to contact UKL representative.



Dimension Chart (all dim in mm)				
Size	L	D1	D2	Weight (kg)
15 NB	45	30	15	1.76
20 NB	55	40	20	2.15
25 NB	75	50	25	2.65
40 NB	100	80	40	3.18
50 NB	125	100	50	3.55

Saturated Steam carrying capacity (kg/hr)					
	15 NB	20 NB	25 NB	40 NB	50 NB
1 kg/cm ²	23	62	142	413	1430
3 kg/cm ²	70	155	298	857	2600
5 kg/cm ²	105	235	428	1188	3755

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



UNI KLINGER LIMITED

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

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

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