



FREE FLOAT STEAM TRAP

MODEL JH3LX STAINLESS STEEL

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

Inline repairable stainless steel steam trap for drainage of high pressure heat exchangers and process heaters.

1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
2. Precision-ground float, constant water seal and unique three-point seating ensure steam-tight seal, even under no-load conditions.
3. Only one moving part, the free float, eliminates concentrated wear and provides long maintenance-free service life.
4. Thermostatic capsule (X-element) with "fail open" feature vents air automatically until close to steam temperature.
5. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.
6. Built-in screen with large surface ensures trouble-free operation.



Specifications

Model		JH3LX		
Connection		Screwed	Socket Welded	Flanged
Size		1/2", 3/4", 1" DN 15, 20, 25		
Orifice No.		2, 5, 10, 14, 22, 32		
Maximum Operating Pressure (barg)	PMO	2, 5, 10, 14, 22, 32		
Maximum Differential Pressure (bar)	ΔPMX	2, 5, 10, 14, 22, 32		
Maximum Operating Temperature (°C)	TMO	240		
Subcooling of X-element Fill (°C)		up to 6		
Type of X-element		B		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 32 1 bar = 0.1 MPa
Maximum Allowable Temperature (°C) TMA: 350

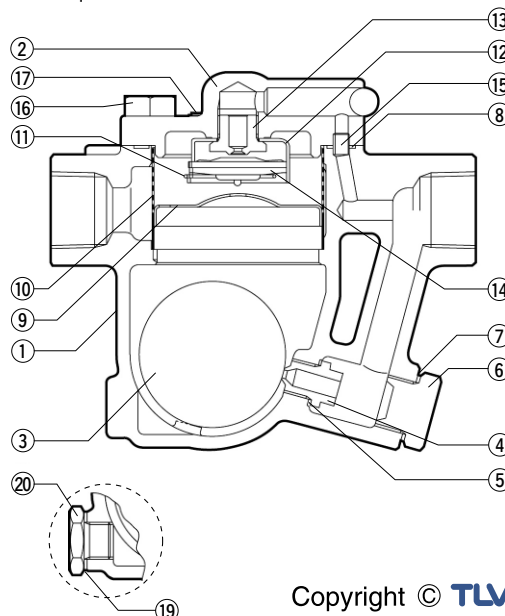


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	DIN*	ASTM/AISI*
①	Body	Cast Stainl. Steel A351 Gr. CF8	1.4312	—
②	Cover	Cast Stainl. Steel A351 Gr. CF8	1.4312	—
③ ^F	Float	Stainless Steel SUS316L	1.4404	AISI316L
④ ^R	Orifice	—	—	—
⑤ ^{MR}	Orifice Gasket	Stainless Steel SUS316L	1.4404	AISI316L
⑥	Orifice Plug	Stainless Steel SUS303	1.4305	AISI303
⑦ ^{MR}	Plug Gasket	Stainless Steel SUS316L	1.4404	AISI316L
⑧ ^{MR}	Cover Gasket	Stainl. Stl. SUS316L/Graphite	1.4404	AISI316L
⑨ ^R	Float Cover	Stainless Steel SUS304	1.4301	AISI304
⑩ ^R	Screen inner/outer	Stainless Steel SUS430/304	1.4016/4301	AISI430/304
⑪ ^R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
⑫ ^R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
⑬ ^R	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
⑭ ^R	X-element	Stainless Steel	—	—
⑮	Connector	Stainless Steel SUS416	1.4005	AISI416
⑯	Cover Bolt	Stainless Steel SUS304	1.4301	AISI304
⑰	Nameplate	Stainless Steel SUS304	1.4301	AISI304
⑱	Socket**/Flange**	Cast Stainl. Steel A351 Gr. CF8	1.4312	—
⑲	Drain Plug Gasket***	Stainless Steel SUS316L	1.4404	AISI316L
⑳	Drain Plug***	Stainless Steel SUS303	1.4305	AISI303

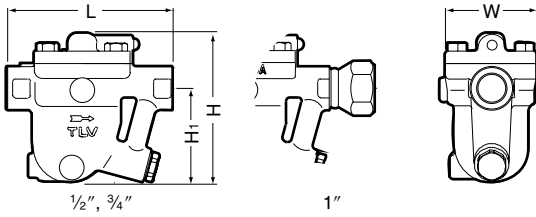
* Equivalent materials ** Shown on reverse, sockets 1", DN 25 are welded on
*** Option

Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float



Dimensions

● **JH3LX Screwed**

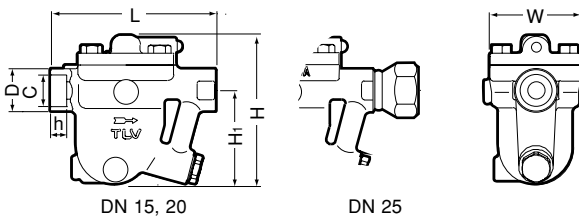


JH3LX Screwed* (mm)

Size	L	H	H ₁	W	Weight (kg)
1/2"	145	129	82	80	2.7
3/4"					2.8
1"	203				

* BSP DIN 2999, other standards available

● **JH3LX Socket Welded**

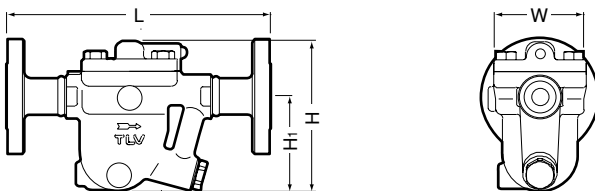


JH3LX Socket Welded* (mm)

DN	L	H	H ₁	W	φD	φC	h	Weight (kg)
15	145	129	82	80	36	21.70	12	2.7
20								27.05
25	203				44	33.80	14	2.8

* ASME B16.11, other standards available

● **JH3LX Flanged**

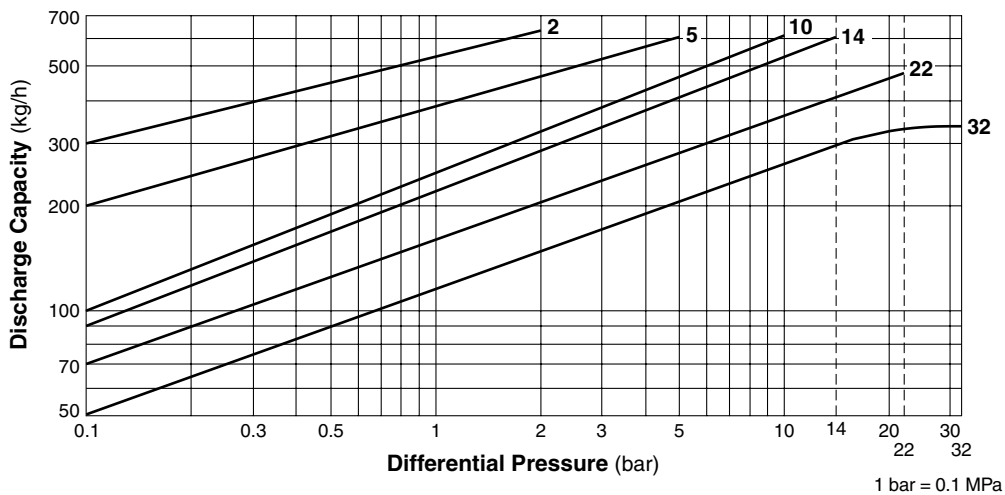


JH3LX Flanged (mm)

DN	L			H	H ₁	W	Weight* (kg)
	ASME Class						
	150RF	300RF	600RF				
15	210	210	220	129	82	80	4.3
20	230	230	230				5.1
25	250	250	250				5.8

Other standards available, but length and weight may vary
* Weight is for class 600 RF

Discharge Capacity



- Line numbers within the graph refer to orifice numbers.
- Differential pressure is the difference between the inlet and outlet pressure of the trap.
- Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature.
- Recommended safety factor: at least 1.5.

CAUTION DO NOT use traps under conditions which exceed maximum differential pressure, as condensate backup will occur!

Manufacturer

ISO 9001/ISO 14001

TLV® CO., LTD.
Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

