FREE FLOAT STEAM TRAP

MODEL JH3LX

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

TLV

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 slimplifies cleaning and reduces maintenance costs.
- 6. Built-in screen with large surface ensures trouble-free operation.



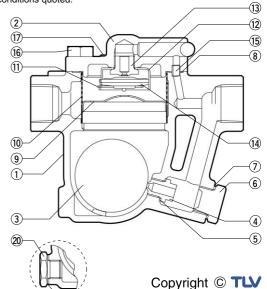
Specifications

Model		JH3LX				
Connection		Screwed	Socket Welded	Flanged		
Size (mm)			15, 20, 25			
Orifice No.			2, 5, 10, 14, 22, 32			
Maximum Operating Pressure (MPaG)	PMO		0.2, 0.5, 1.0, 1.4, 2.2, 3.2			
Maximum Differential Pressure (MPa)	ΔPMX		0.2, 0.5, 1.0, 1.4, 2.2, 3.2			
Minimum Operating Pressure (MPaG)			0.01			
Maximum Operating Temperature (°C)	TMO		240			
Subcooling of X-element Fill (°C)			up to 6			
Type of X-element			В			

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 3.2 Maximum Allowable Temperature (°C) TMA: 350

CAUTION 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.

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No.	Description	Material	JIS	ASTM/AISI*
1	Body	Cast Stainless Steel	_	A351 Gr. CF8
2	Cover	Cast Stainless Steel	_	A351 Gr. CF8
3F	Float	Stainless Steel	SUS316L	AISI316L
(4) ^R	Orifice	_	_	_
5 ^{MR}	Orifice Gasket	Stainless Steel	SUS316L	AISI316L
6	Orifice Plug	Stainless Steel	SUS303	AISI303
(7) ^{MR}	Orifice Plug Gasket	Stainless Steel	SUS316L	AISI316L
8MR	Cover Gasket	Stainl. Steel/Graphite	SUS316L	AISI316L
9R	Float Cover	Stainless Steel	SUS304	AISI304
10 ^R	Screen inner/outer	Stainless Steel	SUS304/430	AISI304/430
(1) ^R	Spring Clip	Stainless Steel	SUS304	AISI304
(12) ^R	X-element Guide	Stainless Steel	SUS304	AISI304
(13 ^R	Air Vent Valve Seat	Stainless Steel	SUS420F	AISI420F
(14) ^R	X-element	Stainless Steel	_	_
15	Connector	Stainless Steel	SUS416	AISI416
16	Cover Bolt	Stainless Steel	SUS304	AISI304
17	Nameplate	Stainless Steel	SUS304	AISI304
18	Socket**/Flange**	Cast Stainless Steel		A351 Gr. CF8
19	Drain Plug Gasket***	Stainless Steel	SUS316L	AISI316L
20	Drain Plug***	Stainless Steel	SUS303	AISI303



(19)

* Equivalent ** Shown on reverse, sockets 25 mm are welded on *** Option Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

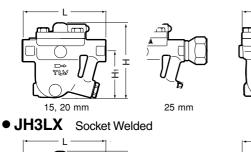
Dimensions

TLV

 \Box

Consulting & Engineering Service

• JH3LX Screwed



25 mm

JH3L)	(mm)				
Size	L	Н	H1	W	Weight (kg)
15	145	129	82	80	2.7
20					
25	203				2.8

* Rc(PT), other standards available

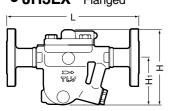
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JH3LX Socket Welded							(mm)	
Size	L	Н	H1	W	φD	φC	h	Weight (kg)
15	145	145 129	82	80	36	22.2	12	2.7
20					30	27.7	14	2.7
25	203				44	34.5	14	2.8

•	JH3L	X	Flanged
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15, 20 mm

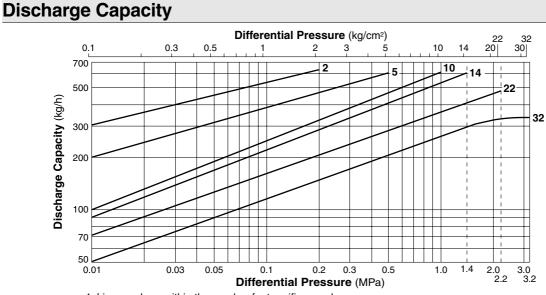
) mm



W

JHJLX Flanged (mm)								
	Size	L ASME Class			н	H1	w	Weight*
		150RF	300RF	600RF				(kg)
	15	210	210	220	129			4.3
	20	230	230	230		82	80	5.1
	25	250	250	250				5.8

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



1. Line numbers within the graph refer to orifice numbers.

2. Differential pressure is the difference between the inlet and outlet pressure of the trap.

3. Capacities are based on continuous discharge of condensate 6°C below saturated steam temperature. 4. Recommended safety factor: at least 1.5.



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

[®] CO., LTD.

Manufacturer

Kakogawa, Japan is approved by LRQA Ltd to ISO 9001/14001





SDS M2000-178 Rev. 6/2005 http://www.tlv.com Specifications subject to change without notice.