

# FREE FLOAT STEAM TRAP

MODEL JH5SL-X JH5SL-B/JH5SH-B

#### FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

#### **Benefits**

A reliable and durable cast steel steam trap for use on small to medium-size process equipment. JH5RL-B/JH5RH-B are also suitable for both superheated and high-pressure process equipment.

- Self-modulating free float provides continuous, smooth, low-velocity condensate discharge as process loads vary.
- Precision-ground float, constant water seal and three-point seating design ensure a steam-tight seal, even under noload conditions.
- Only one moving part, the free float, eliminates concentrated valve wear and provides long maintenancefree service life.
- Rugged float construction with up to 1740 or 2300 psig\* hydraulic shock rating ensures excellent resistance to water hammer.
- 5. JH5SL-X: Thermostatic capsule (X-element) with "fail open" feature vents air automatically at close-to-steam temperature.
- 6. JH5SL-B/JH5SH-B: Thermostatic bimetal air vent valve vents air automatically for rapid startup.
- 7. Built-in screen with large surface area ensures extended trouble-free operation. \* Depending on orifice No.



# **Specifications**

Model		JH5SL-X		JH5	SL-B	JH5SH-B	
Connection		Screwed Socket Weld		Screwed	Socket Weld	Socket Weld	
Size (in)		3/4	3/4	3/4	3/4	3/4	
Orifice No.		5, 10, 22, 32		2, 5, 10, 22, 32, 40, 46		65	
Maximum Operating Pressure (psig)	PMO	75, 150, 315, 450		30, 75, 150, 315, 450, 600, 650		925	
Maximum Differential Pressure (psi)	\PMX	75, 150, 315, 450		30, 75, 150, 315, 450, 600, 650		925	
Minimum Operating Pressure (psig)		Vacuum		1.5		1.5	
Maximum Operating Temperature (°F)	TMO	O 464		800		800	
Maximum Allowable Pressure (psig)	РМА	600		650		925	
Maximum Allowable Temperature (°F)	TMA	800		800		800	
Type of Air Vent		X-element (11 °F subcooling)		1	Bimetal (vents air u	ip to approx.212°F)	

These are non-standard products, consult TLV for delivery time required.

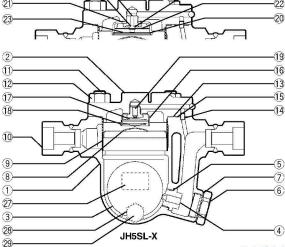
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	ASTM/AISI*	JIS
1	Body	Cast Stainless Steel	A351 Gr.CF8	_
2	Cover	Cast Stainless Steel	A351 Gr.CF8	_
(3)F	Float	Stainless Steel	AISI316L	SUS316L
(4)R	Orifice		=	-
(5)MR	Orifice Gasket	Stainless Steel	AISI316L	SUS316L
6	Orifice Plug	Cast Stainless Steel	A351 Gr.CF8	_
ØMR	Orifice Plug Gasket	Stainless Steel	AISI316L	SUS316L
(8)P	Float Cover	Stainless Steel	AISI304	SUS304
(9)P	Screen	Stainless Steel	AISI430	SUS430
10	Socket	Stainless Steel	AISI304	SUS304
11)	Cover Bolt	Stainless Steel	A193 Gr.B8 Cl.2	_
12	Cover Nut	Stainless Steel	A194 Gr.8	
(13MR	Cover Gasket	Graphite/Stainless Steel	-/AISI316L	-/ SUS316L
14)	Connector	Stainless Steel	AISI416	SUS416
15 <sup>MR</sup>	Connector Gasket	Graphite/Stainless Steel	-/AISI316L	-/ SUS316L
16 <sup>P</sup>	X-element Guide	Stainless Steel	AISI304	SUS304
17 <sup>R</sup>	X-element	Stainless Steel	<del>-</del>	_
18 <sup>P</sup>	Spring Clip	Stainless Steel	AISI304	SUS304
(19)R	Air Vent Valve Seat	Stainless Steel	AISI420F	SUS420F
20P	Snap Ring	Stainless Steel	AISI304	SUS304
21)R	Air Vent Case	Cast Stainless Steel	A351 Gr.CF8	_
22 <sup>P</sup>	Bimetal Plate	Bimetal	=	_
23 <sup>P</sup>	Air Vent Screen	Stainless Steel	AISI304	SUS304
24 <sup>P</sup>	Air Vent Valve Seat		-	_
25 <sup>P</sup>	Air Vent Valve Plug	<del></del> 2	_	
26P	Snap Ring	Stainless Steel	AISI304	SUS304
27)	Nameplate	Stainless Steel	AISI304	SUS304
28	Drain Plug Gasket**	Stainless Steel	AISI316L	SUS316L
29	Drain Plug**	Stainless Steel	AISI303	SUS303

\* Equivalent \*\* Option

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

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16L	2— 11— 12— 17— 18—	
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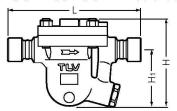
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# **Consulting & Engineering Service**

### **Dimensions**

#### • JH5SL-X/JH5SL-B Screwed

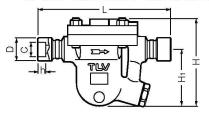


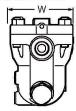


JH5SL-X/JH5SL-B Screwed*								
	Model	Size	L	Н	Hı	W	Weight(lb)	
	JH5SL-X JH5SL-B	9/4	9 11/16	6%16	4 1/8	4 ½	15	

<sup>\*</sup> NPT, other standards available

#### • JH5SL-X/JH5SL-B/JH5SH-B Socket Weld



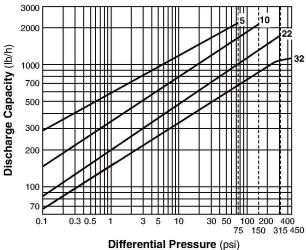


JH5SL-X/JH5SL-B/JH5SH-B Socket Weld* (in)									
Model	Size	L	Н	Нı	W	$\phi$ D	ФС	h	Weight(lb)
JH5SL-X JH5SL-B	3/4	911/16	6% <sub>16</sub>	4 1/8	4 ½	1½	1.065	9/16	15
JH5SH-B	3/4	911/16	7	4 1/4	4 5/16	1 1/2	1.065	9/16	15

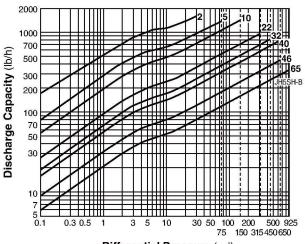
<sup>\*</sup> ASME B16.11-2005, other standards available

# **Discharge Capacity**

#### JH5SL-X



### • JH5SL-B/JH5SH-B



Differential Pressure (psi)

- 1. Line numbers within the graph are 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 11°F below saturated temperature.
- 4. Recommended safety factor: at least 1.5.



Do not use traps under conditions that exceed maximum differential pressure, as condensate backup will occur!



DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE. Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

# CORPORATION

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Manufacturer



ISO 9001/ISO 14001



