



FREE FLOAT STEAM TRAP

MODEL JH7RX

CAST STEEL FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Benefits

Extremely durable, inline-repairable free float trap with tight shut-off for drainage of medium-sized process heaters.

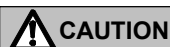
1. Self-modulating free float provides soft and continuous, low velocity discharge as process loads vary, for maximum production performance.
2. Precision ground float, constant water seal and three-point seating design ensure a steam-tight seal, even under no-load conditions.
3. Durable thermostatic unit automatically vents air for exceptional start-up and performance.
4. Easy, inline access to internal parts simplifies cleaning and lowers maintenance costs.
5. Rugged float construction with up to 1500 psig hydraulic shock rating ensures excellent resistance to water hammer.
6. Built-in screen with large surface area ensures extended trouble-free service.



Specifications

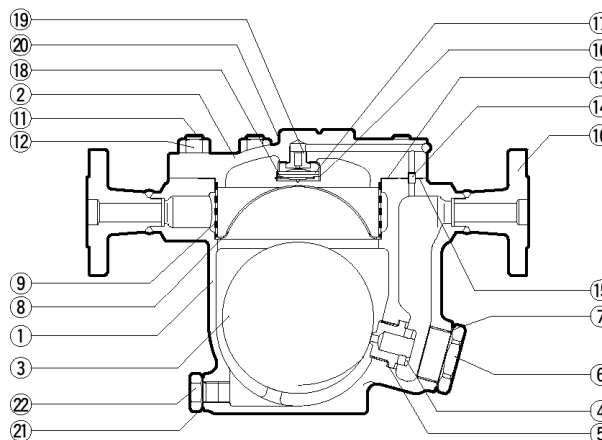
Model	JH7RX		
Connection	Screwed	Socket Weld	Flanged
Size (in)	1, 1½	¾, 1, 1½	¾, 1, 1½, 2
Orifice No.		2, 5, 10, 14, 22, 32	
Maximum Operating Pressure (psig) PMO		30, 75, 150, 200, 315, 450	
Maximum Differential Pressure (psi) ΔPMX		30, 75, 150, 200, 315, 450	
Minimum Operating Pressure (psig)		Vacuum	
Maximum Operating Temperature (°F) TMO		464	
Maximum Allowable Pressure (psig) PMA		600	
Maximum Allowable Temperature (°F) TMA		800	

Connections and sizes in bold are standard



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 Steel	A216 Gr.WCB	—
②	Cover	Carbon Steel	A105	—
③ ^F	Float	Stainless Steel	AISI316L	SUS316L
④ ^R	Orifice	—	—	—
⑤ ^{MR}	Orifice Gasket	Soft Iron	AISI1010	SUYP
⑥	Orifice Plug	Cast Stainless Steel	A351 Gr.CF8	—
⑦ ^{MR}	Orifice Plug Gasket	Soft Iron	AISI1010	SUYP
⑧	Screen Holder	Stainless Steel	AISI304	SUS304
⑨ ^R	Screen	Stainless Steel	AISI430	SUS430
⑩	Socket**/Flange	Carbon Steel	A105	—
⑪	Cover Bolt	Alloy Steel	A193 Gr.B7	SNB7
⑫	Cover Nut	Carbon Steel	AISI1045	S45C
⑬ ^{MR}	Cover Gasket	Graphite/Stainl. Steel	—/AISI316L	—/SUS316L
⑭	Connector	Stainless Steel	AISI416	SUS416
⑮ ^{MR}	Connector Gasket	Graphite/Stainl. Steel	—/AISI316L	—/SUS316L
⑯ ^R	X-element Guide	Stainless Steel	AISI304	SUS304
⑰ ^R	X-element	Stainless Steel	—	—
⑱ ^R	Spring Clip	Stainless Steel	AISI304	SUS304
⑲ ^R	Air Vent Valve Seat	Stainless Steel	AISI420F	SUS420F
⑳	Nameplate	Stainless Steel	AISI304	SUS304
㉑ ^{MR}	Drain Plug Gasket	Soft Iron	AISI1010	SUYP
㉒	Drain Plug	Carbon Steel	AISI1025	S25C

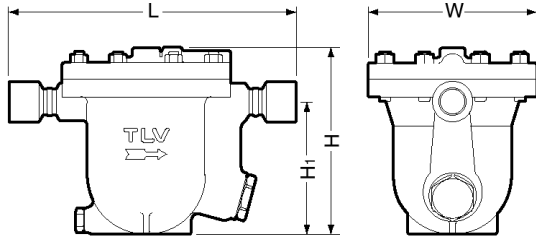


* Equivalent ** Shown on reverse

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

Dimensions

● JH7RX Screwed

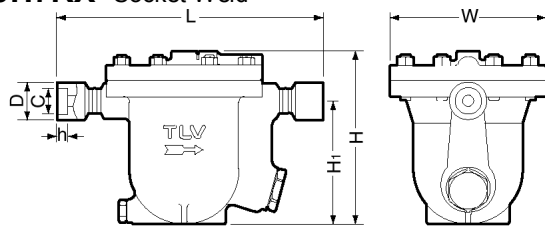


JH7RX Screwed* (in)

Size	L	H	H ₁	øW	Weight (lb)
1	13 ¹ / ₈	8 ⁷ / ₈	6 ⁵ / ₁₆	8 ¹ / ₈	37
1 ¹ / ₂	13 ¹ / ₄				42

* NPT, other standards available

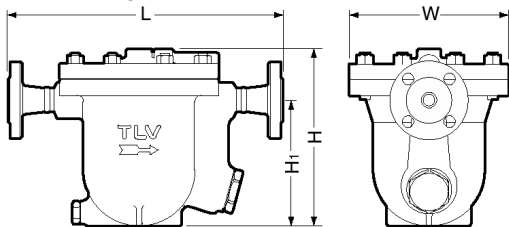
● JH7RX Socket Weld



JH7RX Socket Weld (in)

Size	L	H	H ₁	øW	øD	øC	h	Weight (lb)
3/4	12 ¹¹ / ₁₆	8 ⁷ / ₈	6 ⁵ / ₁₆	8 ¹ / ₈	1 ⁵ / ₈	1 ¹ / ₁₆	9 ⁹ / ₁₆	37
1	13 ¹ / ₈				2	1 ³ / ₈		
1 ¹ / ₂	13 ¹ / ₄				2 ⁵ / ₈	1 ¹⁵ / ₁₆		42

● JH7RX Flanged



JH7RX Flanged (in)

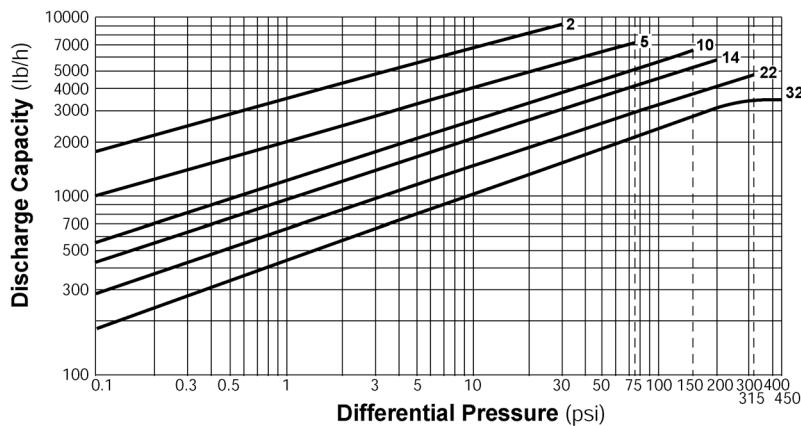
Size	L			H	H ₁	øW	Weight* (lb)
	ASME Class						
	150RF	300RF	600RF				
3/4	13 ³ / ₈	13 ³ / ₈	13 ³ / ₈	8 ⁷ / ₈	6 ⁵ / ₁₆	8 ¹ / ₈	46
1	15 ¹ / ₈	15 ¹ / ₈	15 ¹ / ₈				51
1 ¹ / ₂	15	15	15				57
2	15 ³ / ₈	15 ³ / ₈	15 ³ / ₈				66

Other standards available, but length and weight may vary

* Weight is for Class 600 RF

Flange classes in bold are standard

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 11 °F below saturated steam temperature.
- Recommended safety factor: at least 1.5.



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

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Manufacturer
TLV CO., LTD.
 Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001 / ISO 14001

