# TLV. FREE FLOAT. STEAN TRAP MODEL JH7.2R-X/JH7.2R-B

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

#### **Benefits**

#### A reliable and durable cast steel steam trap for use on medium-size process equipment. JH7.2R-B is also suitable for high-pressure process equipment.

- Self-modulating free float provides continuous, smooth, low-velocity condensate discharge as process loads vary.
- 2. Constant water seal ensures a steam-tight seal, even under low-load conditions.
- Only one moving part, the free float, eliminates concentrated valve wear and provides long maintenancefree service life.
- Rugged float construction with up to 1500 or 1600 psig\* hydraulic shock rating ensures excellent resistance of the float to water hammer.
- 5. JH7.2R-X: Thermostatic capsule (X-element) with "fail open" feature vents air automatically at close-to-steam temperature.
- 6. JH7.2R-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.



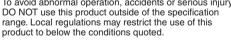
#### Specifications

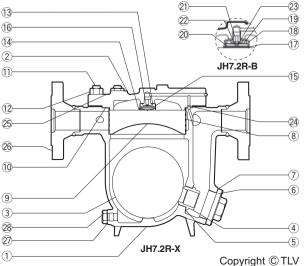
Model	JH7.2R-X		JH7.2R-B		
Connection	Socket Weld	Flanged	Socket Weld	Flanged	
Size (in)	1½		1½		
Orifice No.	2,5,10,14,22,32		40,46		
Maximum Operating Pressure (psig) PMO	30, 75, 150, 200, 315, 450		600, 650		
Maximum Differential Pressure (psi) △ PMX	30, 75, 150, 200, 315, 450 600, 650			50	
Minimum Operating Pressure (psig)	Vacuum		1.5		
Maximum Operating Temperature (°F) TMO	464		800		
Maximum Allowable Pressure (psig) PMA	650		650		
Maximum Allowable Temperature (°F) TMA	800		800		
Type of Air Vent	X-element (11 °F sul	bcooling)	Bimetal (vents air up to approx. 212 °F)		

CAUTION

No.	Description	Material	ASTM/AISI*	JIS
1	Body	Cast Steel	A216 Gr.WCB	_
2	Cover	Carbon Steel	A105	_
3F	Float	Stainless Steel	AISI316L	SUS316L
(4) <sup>R</sup>	Orifice	—	—	_
(5) <sup>MR</sup>	Orifice Gasket	Soft Iron	AISI1010	SUYP
6	Orifice Plug	Cast Stainless Steel	A351 Gr.CF8	_
(7) <sup>MR</sup>	Orifice Plug Gasket	Soft Iron	AISI1010	SUYP
(8) <sup>R</sup>	Screen	Stainless Steel	AISI430	SUS430
9	Screen Holder	Stainless Steel	AISI304	SUS304
(10 <sup>MR</sup>	Cover Gasket	Graphite/Stainless Steel	- /AISI316L	-/SUS316L
11	Cover Bolt	Alloy Steel	A193 Gr.B16	SNB16
12	Cover Nut	Carbon Steel	AISI1045	S45C
(13 <sup>R</sup>	X-element	Stainless Steel	—	_
(14) <sup>R</sup>	Spring Clip	Stainless Steel	AISI304	SUS304
(15) <sup>R</sup>	X-element Guide	Stainless Steel	AISI304	SUS304
(16 <sup>R</sup>	Air Vent Valve Seat	Stainless Steel	AISI420F	SUS420F
17 <sup>R</sup>	Snap Ring	Stainless Steel	AISI304	SUS304
(18) <sup>R</sup>	Air Vent Case	Cast Stainless Steel	A351 Gr.CF8	_
(19 <sup>R</sup>	Bimetal Plate	Bimetal	—	_
20 <sup>R</sup>	Air Vent Screen	Stainless Steel	AISI304	SUS304
(21) <sup>R</sup>	Air Vent Valve Seat	-	—	_
(22) <sup>R</sup>	Air Vent Valve Plug	-	—	_
23 <sup>R</sup>	Snap Ring	Stainless Steel	AISI304	SUS304
24)	Connector	Stainless Steel	AISI416	SUS416
25	Nameplate	Stainless Steel	AISI304	SUS304
26	Flange	Carbon Steel	A105	_
27) <sup>MR</sup>	Drain Plug Gasket	Soft Iron	AISI1010	SUYP
28	Drain Plug	Carbon Steel	AISI1025	S25C

Connections and sizes in bold are standard To avoid abnormal operation, accidents or serious injury,





\* Equivalent

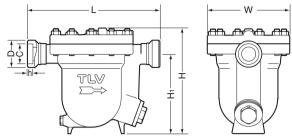
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

## TLV

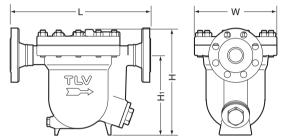
### **Consulting**. Engineering. Services

#### **Dimensions**

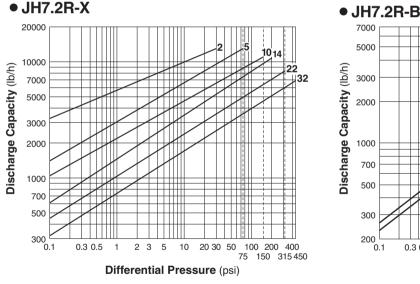
#### JH7.2R-X/JH7.2R-B Socket Weld



#### • JH7.2R-X/JH7.2R-B Flanged



### **Discharge Capacity**



#### 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 this product 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.

## TLV: CORPORATION

13901 South Lakes Drive, Charlotte, NC 28273-6790 Tel: 704-597-9070 Fax: 704-583-1610 E-mail: tlv@tlvengineering.com https://www.tlv.com For Technical Service 1-800 "TLV TRAP"

Member of FC/



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



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JH7.2R-X/JH7.2R-B Socket Weld*							(in)	
Size	L	Н	H₁	ΦW	ΦD	φC	h	Weight (lb)
<b>1</b> ½	<b>15</b> <sup>13</sup> /16	12 %	<b>9</b> 5⁄8	<b>9</b> <sup>13</sup> / <sub>16</sub>	21/2	1.915	1/2	76

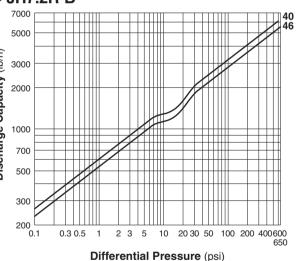
\* ASME B16.11-2005, other standards available

	JH7.2R-X/JH7.2R-B Flanged (in)								
Size		Connects to ASME Class			н	H₁	ΦW	Weight* (Ib)	
		150RF	300RF	600RF				(10)	
	<b>1</b> ½	16	16 <sup>1</sup> /4	161/8	12 %	<b>9</b> <sup>5</sup> / <sub>8</sub>	9 <sup>13</sup> /16	81	

Other standards available, but length and weight may vary

\* Weight is for Class 600 RF

Flange classes in bold are standard



SDS A2000-346 Rev. 7/2019 Products for intended use only. Specifications subject to change without notice.