FREE FLOAT® STEAM 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.

1. 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.
3. Only one moving part, the free float, eliminates concentrated valve wear and provides long maintenance-free service life.
4. 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) ΔPMX	30, 75, 150, 200, 315, 450		600, 650	
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 subcooling)		Bimetal (vents air up to approx. 212 °F)	

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

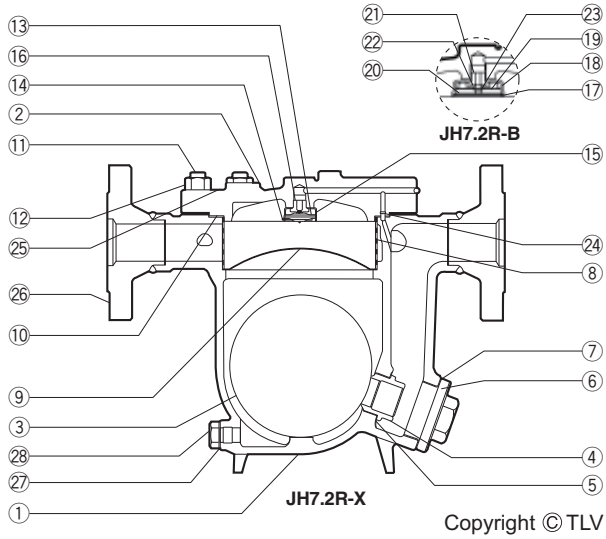
* Equivalent

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

Connections and sizes in bold are standard

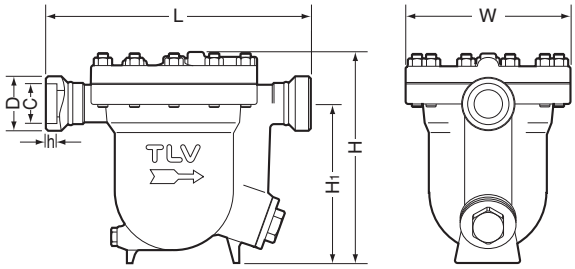
⚠ CAUTION

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.



Dimensions

● **JH7.2R-X/JH7.2R-B** Socket Weld

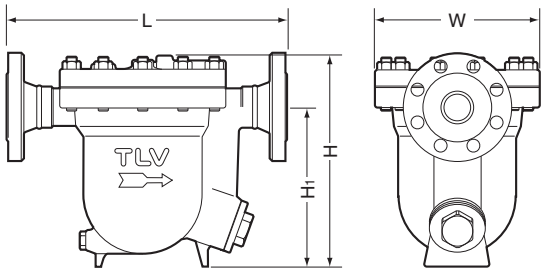


JH7.2R-X/JH7.2R-B Socket Weld* (in)

Size	L	H	H_1	ϕW	ϕD	ϕC	h	Weight (lb)
1½	15 13/16	12 5/8	9 5/8	9 13/16	2½	1.915	½	76

* ASME B16.11-2005, other standards available

● **JH7.2R-X/JH7.2R-B** Flanged



JH7.2R-X/JH7.2R-B Flanged (in)

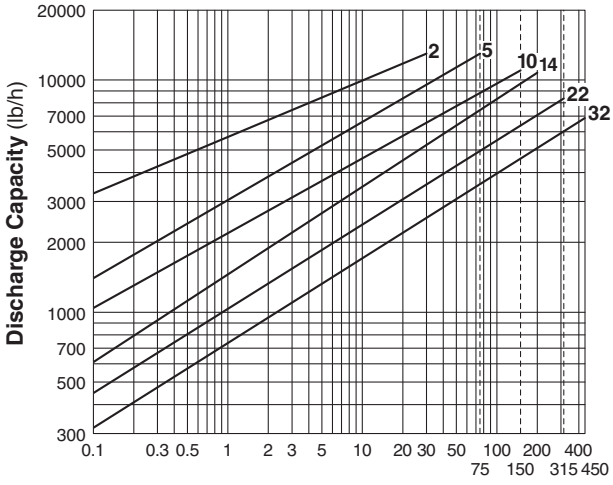
Size	L			H	H_1	ϕW	Weight* (lb)
	Connects to ASME Class						
	150RF	300RF	**600RF**				
1½	16	16 1/4	16 7/8	12 5/8	9 5/8	9 13/16	81

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

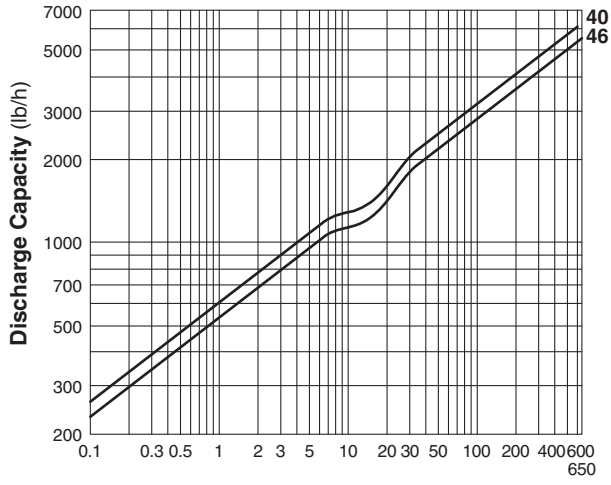
Flange classes in bold are standard

Discharge Capacity

● **JH7.2R-X**



● **JH7.2R-B**



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.

⚠ CAUTION Do not use this product under conditions that exceed maximum differential pressure, as condensate backup will occur!

⚠ CAUTION 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 FCI Fluid Controls Institute, Inc. Technical Resources for Instrumentation and Fluid Control

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

ISO 9001
ISO 14001

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