

FREE FLOAT. STEAM TRAP

MODEL JH8R-X/JH8R-B

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Benefits

A reliable and durable cast steel steam trap for use on large-size process equipment. JH8R-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 design 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.
- JH8R-X: Thermostatic capsule (X-element) with "fail open" feature vents air automatically at close-to-steam temperature.
- JH8R-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.



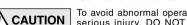
Specifications

Model		JH8R-X	JH8R-B
Connection		Flanged	Flanged
Size (in)		2, 3	2, 3
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)	ΔΡΜΧ	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)

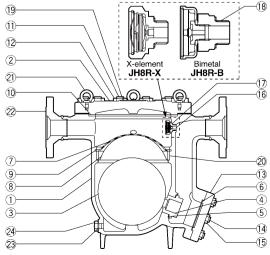
Connections and sizes in bold are standard

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 R	Orifice				_
⑤MR	Orifice Gasket		Soft Iron	AISI1010	SUYP
6MR	Outlet Cover Gasket		Graphite/Stainless Steel	-/AISI304	-/SUS304
⑦ R	Screen		Stainless Steel	ess Steel AISI430	
8	Screen Holder		Stainless Steel	AISI304	SUS304
9	Snap Ring		Stainless Steel	AISI304	SUS304
10 ^{MR}	Cover Gasket		Graphite/Stainless Steel	-/AISI304	-/SUS304
11)	Cover Bolt		Alloy Steel	A193 Gr.B16	SNB16
12	Cover Nut		Carbon Steel	AISI1045	S45C
13	Outlet Cover		Stainless Steel	AISI420	SUS420J2
14)	Outlet Cover Bolt		Alloy Steel	A193 Gr.B16	SNB16
15	Outlet Cover Nut		Carbon Steel	AISI1045	S45C
16 ^X	X-element Air Vent Unit	JH8R-X	_	_	_
16R	Bimetal Air Vent Unit	JH8R-B	_	_	_
17MRX	Air Vent Unit Gasket		Soft Iron	AISI1010	SUYP
18 ^R	Air Vent Guide	JH8R-B	Stainless Steel	AISI303	SUS303
19	Nameplate		Stainless Steel	AISI304	SUS304
20	Screen Holder Retainer		Stainless Steel	AISI304	SUS304
21)	Eye Bolt		Stainless Steel A6		SS400
22	Flange		Cast Steel A216 Gr.WCB		_
23MR	Drain Plug Gasket		Soft Iron	oft Iron AISI1010	
20	Drain Diva		Carban Ctaal	AICHAOF	COEC

^{*} Equivalent Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float, (X) X-element unit



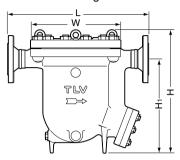
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.





Dimensions

● JH8R-X/JH8R-B Flanged



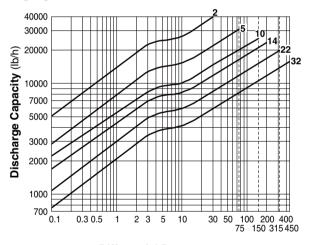
	JH8R-X/JH8R-B Flanged (in)											
Size						Woight*						
	Connects to ASME Class			Н	H₁	ΦW	Weight*					
		150RF	300RF	600RF				()				
	2	231/4	23 ½	24 1/4	20%	15¾	143/4	265				
	3	231/8	23%16	24 5/16				287				

Other standards available, but length and weight may vary

Flange classes in bold are standard

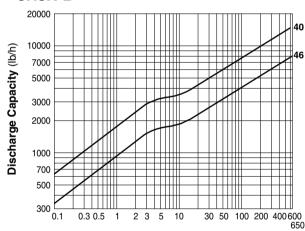
Discharge Capacity

JH8R-X



Differential Pressure (psi)

• JH8R-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 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.

TLY: 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"



Manufacturer

TLV. CO., LTD.

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



^{*} Weight is for Class 600 RF