TLV. 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.
- 5. 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

A CONTRACT OF A	

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)	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)
			Connections and sizes in bold are standar

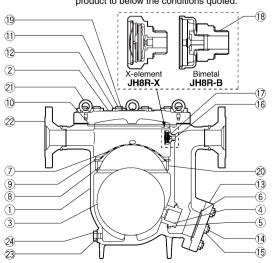
No.	Description		Material	ASTM/AISI*	JIS
1	Body		Cast Steel	A216 Gr.WCB	_
2	Cover		Carbon Steel	A105	_
3F	Float		Stainless Steel	AISI316L	SUS316L
(4)R	Orifice		—	—	—
5 ^{MR}	Orifice Gasket		Soft Iron	AISI1010	SUYP
6 ^{MR}	Outlet Cover Gasket		Graphite/Stainless Steel	- /AISI304	-/SUS304
(7) ^R	Screen		Stainless Steel	AISI430	SUS430
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	-	-	—
16 ^R	Bimetal Air Vent Unit JH8R-B		-	—	—
17 ^{MRX}	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	_
23 ^{MR}	Drain Plug Gasket		Soft Iron	AISI1010	SUYP
24)	Drain Plug		Carbon Steel	AISI1025	S25C



Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float, (X) X-element unit

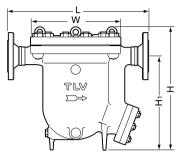


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.



Dimensions

• JH8R-X/JH8R-B Flanged



JH8R-X/JH8R-B Flanged

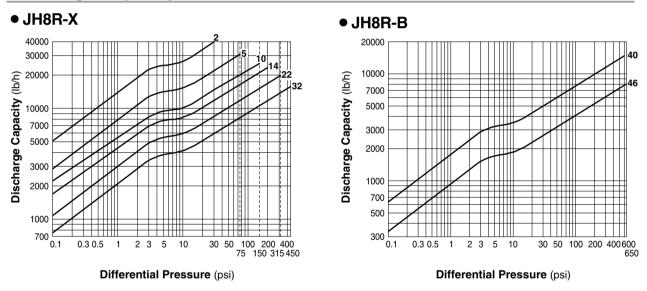
(in)

Size	L			н	Hı	ΦW	Weight* (lb)	
	Connects to ASME Class							
	150RF	300RF	600RF				(10)	
2	231⁄4	23 1/2	24 1⁄4	20.54	20 %	1534	143⁄4	265
3	231/8	23%16	24 ⁵ ⁄16	20%	/8 15 %4	14 %4	287	

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

Flange classes in bold are standard

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.

CAUTION

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.

FCI

TLV: CORPORATION

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