

FREE FLOAT. STEAM TRAP

MODEL JH8R-X/JH8R-B CAST STEEL

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

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.

- 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.
- 3. **JH8R-X:** Thermostatic capsule (X-element) with "fail open" feature vents air automatically at close-to-steam temperature.
- 4. **JH8R-B:** Thermostatic bimetal air vent valve vents air automatically for rapid startup.
- 5. Built-in screen with large surface area ensures extended trouble-free operation.
- Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.
- * Stainless Steel body available on request



Specifications

Model	JH8	R-X	JH8R-B		
Connection	Socket Welded	Flanged	Socket Welded	Flanged	
Size	DN 50, 80, 100		DN 50, 80, 100		
Orifice No.	0.5, 2, 5, 10, 14, 22, 32		0.5, 2, 5, 10, 14, 22, 32, 40, 46		
Maximum Operating Pressure (barg) PMO	0.5, 2, 5, 10, 14, 22, 32		0.5, 2, 5, 10, 14, 22, 32, 40, 46		
Maximum Differential Pressure (bar) ΔPMX	0.5, 2, 5, 10), 14, 22, 32	0.5, 2, 5, 10, 14, 22, 32, 40, 46		
Maximum Operating Temperature (°C) TMO	240		400*/425		
Type of Air Vent	X-element (6 °	°C subcooling)	Bimetal (vents air up to approx. 100 °C)		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS):

Maximum Allowable Pressure (barg) PMA: 40 (JH8R-X), 46 (JH8R-B)

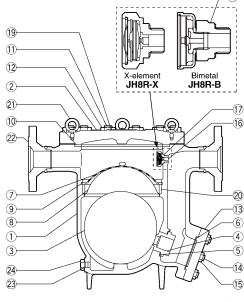
Maximum Allowable Temperature (°C) TMA: 400*/425

* With PN flange

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.

No.	Description	Material	DIN*	ASTM/AISI*	
1	Body	Cast Steel A216 Gr.WCB	1.0619	_	
2	Cover	Carbon Steel A105	1.0460	_	
3F	Float	Stainless Steel SUS316L	1.4404	AISI316L	
4)R	Orifice	_	ı		
(5)MR	Orifice Gasket	Soft Iron SUYP	1.1121	AISI1010	
6 ^{MR}	Outlet Cover Gasket	Graphite/Stainless Steel SUS304	-/1.4301	-/AISI304	
(7)R	Screen	Stainless Steel SUS430	1.4016	AISI430	
8	Screen Holder	Stainless Steel SUS304	1.4301	AISI304	
9	Snap Ring	Stainless Steel SUS304	1.4301	AISI304	
10 ^{MR}	Cover Gasket	Graphite/Stainless Steel SUS304	-/1.4301	-/AISI304	
11)	Cover Bolt Alloy Steel SNB16		1.7711	A193 Gr.B16	
12	Cover Nut	Carbon Steel S45C	1.0503	AISI1045	
13	Outlet Cover	Stainless Steel SUS420J2	1.4031	AISI420	
14)	Outlet Cover Bolt	Alloy Steel SNB16	1.7711	A193 Gr.B16	
15	Outlet Cover Nut	Nut Carbon Steel S45C		AISI1045	
16RX	Air Vent Unit**	_	I		
17MRX	Air Vent Unit Gasket	Soft Iron SUYP	1.1121	AISI1010	
18	Air Vent Guide	Stainless Steel SUS303	1.4305	AISI303	
19	Nameplate	Stainless Steel SUS304	1.4301	AISI304	
20 ^{MR}	Screen Holder Retainer	Stainless Steel SUS304	1.4301	AISI304	
21)	Eye Bolt	Stainless Steel SS400	1.0037	A6	
22	Socket***	Carbon Steel A105	1.0460		
	Flange	Cast Steel A216 Gr.WCB	1.0619		
23 ^{MR}	Drain Plug Gasket	Soft Iron SUYP	1.1121	AISI1010	
24	Drain Plug	Carbon Steel S25C	1.1158	AISI1025	



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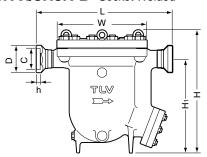
1 bar = 0.1 MPa

^{*} Equivalent materials ** Replacement kit for air vent unit: Bimetal (R), X-element (X) *** Shown on reverse Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float, (X) X-element unit

Consulting & Engineering Service

Dimensions

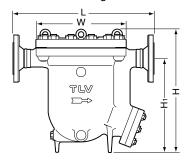
• JH8R-X/JH8R-B Socket Welded



JH8R-X/JH8R-B Socket Welded* (mm)										
[NC	L	Н	H ₁	φW	ΦD	ФС	h	Weight (kg)	
-	50	570					77.5	61.2		111
-	80		524	400	375	112	89.8	16	118	
1	00	610	10			140	115.2		124	

^{*} ASME B16.11-2005, other standards available

● JH8R-X/JH8R-B Flanged



JH8R-X/JH8R-B Flanged

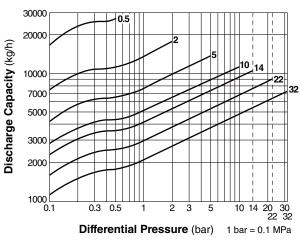
(mm)

	L							
DN	DIN 2501	AS	Н	Нı	ΦW	Weight* (kg)		
	PN25/40	150RF	300RF	600RF				(119)
50	592	591	597	616	524 40		400 375	118
80	588	588	598	617		400		121
100	580	570	596	622				125

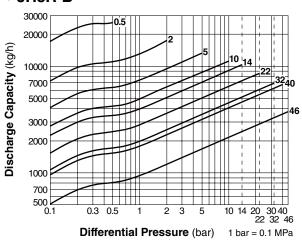
Other standards available, but length and weight may vary

Discharge Capacity

• JH8R-X



JH8R-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 6 °C below saturated steam temperature.
- 4. Recommended safety factor: at least 1.5.



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

> Manufacturer Kakogawa, Japan

ISO 9001 ISO 14001

^{*} Weight is for DIN PN 25/40