FREE FLOAT STEAM TRAP

MODEL JH7RH-B JH7RH-P/JH7RH-W

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING OR COVER CONNECTION

Features

A reliable and durable low alloy cast steel steam trap for use on medium-size process equipment, also suitable for both superheated and extremely high-pressure applications.

1. Self-modulating free float provides continuous, smooth, low-velocity condensate discharge as process loads vary.
2. Precision-ground float, constant water seal and three-point seating design ensure a steam-tight seal, even under no-load conditions.
3. Only one moving part, the free float, eliminates concentrated valve wear and provides a long maintenance-free service life.
4. **JH7RH-B:** Thermostatic bimetal air vent valve vents air automatically for rapid startup.
5. **JH7RH-P/JH7RH-W*:** Instead of the bimetal air vent, for higher pressure and temperature applications, the JH7RH-P/JH7RH-W are manufactured with a cover threaded plug, or socket connection.
6. Built-in screen with large surface area ensures extended trouble-free operation.
7. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.

* Option

Specifications

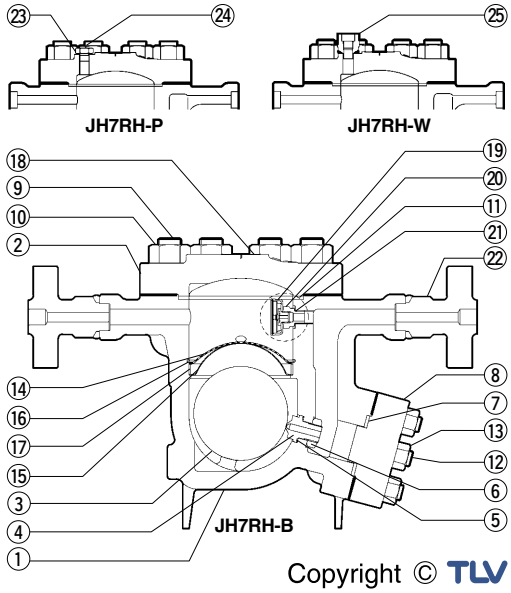
Model	JH7RH-B		JH7RH-P		JH7RH-W (option)	
Connection	Socket Welded	Flanged	Socket Welded	Flanged	Socket Welded	Flanged
Size (mm)	15, 20, 25		15, 20, 25		15, 20, 25	
Orifice No.	80, 100		100, 120		100, 120	
Maximum Operating Pressure (MPaG) PMO	8.0, 10		10, 12		10, 12	
Maximum Differential Pressure (MPa) ΔPMX	8.0, 10		10, 12		10, 12	
Minimum Operating Pressure (MPaG)	0.01		0.01		0.01	
Maximum Operating Temperature (°C) TMO	425		530		530	
Type of Air Vent	Bimetal (vents air up to approx. 100 °C)		—		—	

1 MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS):
Maximum Allowable Pressure (MPaG) PMA: 12 Maximum Allowable Temperature (°C) TMA: 425 (JH7RH-B), 530 (JH7RH-P, JH7RH-W)

⚠ 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.

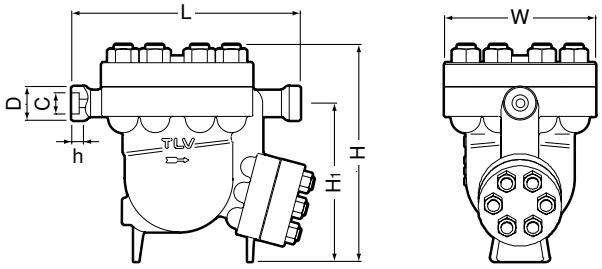
No.	Description	Material	JIS	ASTM/AISI*
①	Body	Low Alloy Cast Steel	—	A217 Gr.WC9
②	Cover	Low Alloy Cast Steel	—	A217 Gr.WC9
③F	Float	Stainless Steel	SUS316L	AISI316L
④R	Orifice	—	—	—
⑤MR	Orifice Gasket	Graphite/Stainless Steel	– /SUS316	– /AISI316
⑥R	Orifice Locknut	Stainless Steel	SUS303	AISI303
⑦MR	Outlet Cover Gasket	Graphite/Stainless Steel	– /SUS309S+cb	– /AISI309S+cb
⑧	Outlet Cover	Stainless Steel	SUS420J2	AISI420
⑨	Cover Bolt	Alloy Steel	SNB16	A193 Gr.B16
⑩	Cover Nut	Alloy Steel	SNB7	A193 Gr.B7
⑪MR	Cover Gasket	Graphite/Stainless Steel	– /SUS309S+cb	– /AISI309S+cb
⑫	Outlet Cover Bolt	Alloy Steel	SNB16	A193 Gr.B16
⑬	Outlet Cover Nut	Alloy Steel	SNB7	A193 Gr.B7
⑭R	Screen	Stainless Steel	SUS430	AISI430
⑮	Screen Holder	Stainless Steel	SUS304	AISI304
⑯	Snap Ring	Stainless Steel	SUS304	AISI304
⑰	Screen Holder Retainer	Stainless Steel	SUS304	AISI304
⑱	Nameplate	Stainless Steel	SUS304	AISI304
⑲R	Bimetal Air Vent Unit	—	—	—
⑳	Air Vent Guide	Stainless Steel	SUS303	AISI303
㉑MR	Air Vent Unit Gasket	Stainless Steel	SUS316L	AISI316L
㉒	Flange	Alloy Steel	—	A182 F22 Cl.3
㉓MR	Cover Plug Gasket	Stainless Steel	SUS316L	AISI316L
㉔	Cover Plug	Stainless Steel	SUS303	AISI303
㉕	Cover Socket	Alloy Steel	—	A182 F22 Cl.3



* Equivalent
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float, (V) air vent valve unit

Dimensions

● **JH7RH-B/JH7RH-P/JH7RH-W** Socket Welded

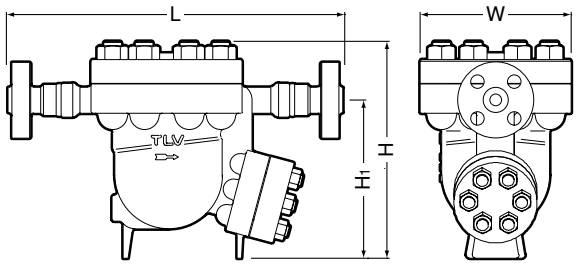


JH7RH-B/JH7RH-P/JH7RH-W Socket Welded (mm)

Size	L	H	H1	ϕW	ϕD	ϕC	h	Weight (kg)
15	390	371 (382)	270	258	53.5	22.2	13	86
20						27.7		
25						34.5		

( ) JH7RH-W

● **JH7RH-B/JH7RH-P/JH7RH-W** Flanged

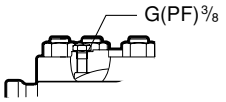


JH7RH-B/JH7RH-P/JH7RH-W Flanged (mm)

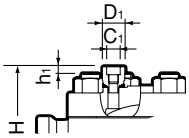
Size	L		H	H1	ϕW	Weight (kg)
	ASME Class					
	900RF	1500RF				
15	572	572	371 (382)	270	258	94
20						95
25						98

Other standards available, but length and weight may vary
( ) JH7RH-W

● **JH7RH-P**



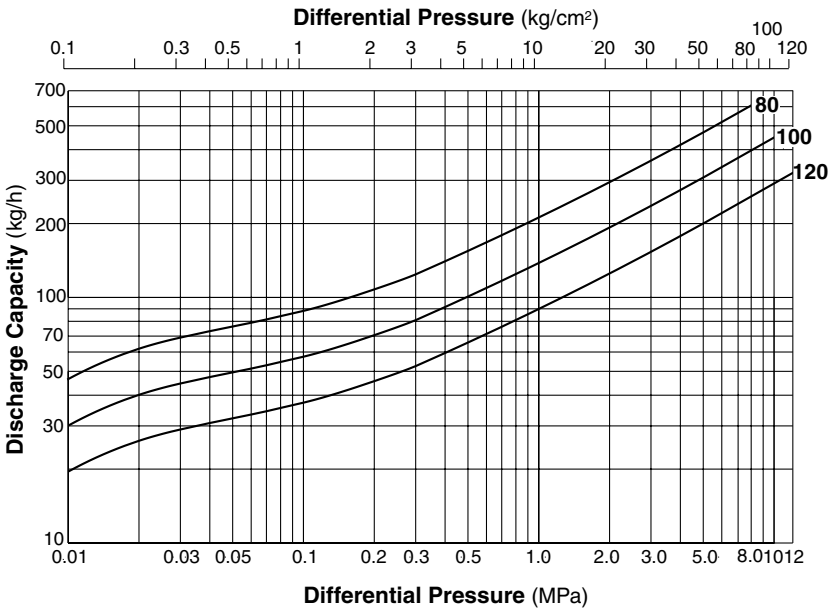
● **JH7RH-W**



JH7RH-W Cover Socket (mm)

ϕD1	ϕC1	h1
36	22.2	13

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

⚠ CAUTION

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

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

ISO 9001/ISO 14001