

FREE FLOATS STEAM TRAP

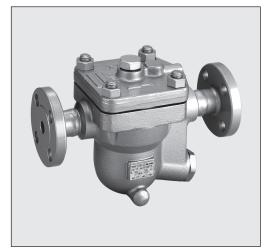
MODEL JH5RL-P/JH5RH-P

FREE FLOAT STEAM TRAP WITH THREE-POINT SEATING AND COVER PLUG

Features

A reliable and durable cast steel steam trap for use on small to medium-size process equipment.

- 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. Built-in screen with large surface area ensures extended trouble-free operation.
- 4. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.
- A manual air vent or pressure balancing tube can be installed using the threaded connection on the cover.



Specifications

Model	JH5RL-P			JH5RH-P		
Connection	Screwed	Socket Welded	Flanged	Socket Welded	Flanged	
Size (mm)	15, 20, 25 15, 20, 25, 40, 50			15, 20, 25, 40, 50		
Orifice No.	2, 5, 10, 14, 22, 32, 40, 46, 65			80		
Maximum Operating Pressure (MPaG) PMO	0.2, 0.5, 1.0, 1.4, 2.2, 3.2, 4.0, 4.6, 6.5			8.0		
Maximum Differential Pressure (MPa) ΔPMX	ssure (MPa) ΔPMX 0.2, 0.5, 1.0, 1.4, 2.2, 3.2, 4.0			8.0		
Minimum Operating Pressure (MPaG)	0.01			0.01		
Maximum Operating Temperature (°C) TMO	425			425		

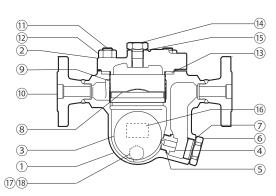
PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 6.5 (JH5RL-P), 8.0 (JH5RH-P) Maximum Allowable Temperature (°C) TMA: 425

1 MPa = 10.197 kg/cm²



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		Cast Steel	_	A216 Gr.WCB	
(<u>2</u>)	Cover	JH5RL-P	Carbon Steel	_	A105	
(2)	Cover	JH5RH-P	Cast Steel	_	A216 Gr.WCB	
3)F	Float		Stainless Steel	SUS316L	AISI316L	
4)R	Orifice		_	_	_	
5 ^{MR}	Orifice Gas	ket	Soft Iron	SUYP	AISI1010	
6	Orifice Pluç	9	Cast Stainless Steel	_	A743 Gr.CA40	
7 ^{MR}	Orifice Plug Gasket		Soft Iron	SUYP	AISI1010	
8 R	Float Cover		Stainless Steel	SUS304	AISI304	
9 R	Screen		Stainless Steel	SUS430	AISI430	
10	Flange/Socket**		Carbon Steel	_	A105	
11)	Cover Bolt		Alloy Steel	SNB16	A193 Gr.B16	
12	Cover Nut		Carbon Steel	S45C	AISI1045	
(13)MR	Cover Gasket		Graphite/Stainless Steel	-/SUS304	-/AISI304	
14)	Cover Plug		Carbon Steel	S25C	AISI1025	
15 ^{MR}	Cover Plug Gasket		Soft Iron	SUYP	AISI1010	
16)	Nameplate		Stainless Steel	SUS304	AISI304	
17)	Drain Plug Gasket***		Soft Iron	SUYP	AISI1010	
18	Drain Plug***		Carbon Steel	S25C	AISI1025	



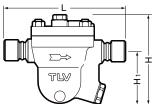
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

^{*} Equivalent ** Shown on reverse *** Option

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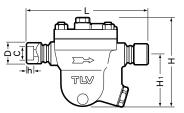
Dimensions

• JH5RL-P Screwed



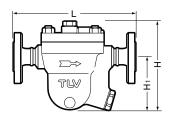


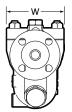
		_
JH5RI	-P/.IH5RH-F	Socket Welded





• JH5RL-P/JH5RH-P Flanged





JH5RL-P Screwed* (mm) Size Н₁ W Weight (kg) 15 234 6.5 20 246 175 105 115 6.6

JH5RL-P/JH5RH-P Socket Welded

(mm)

6.7

Size	L	Н	H₁	W	φD	φC	h	Weight (kg)
15	234	175	175 105 [177] [107]	115 [125]	33	22.2	12	6.5 [10]
20	246				39.5	27.7		6.6 [10]
25	258				48	34.5	14	6.7 [10]
40	246	[177]			64	49.1		9.1 [13]
50	240				77.5	61.1	17	10 [14]

^[] JH5RH-P

25

JH5RL-P/JH5RH-P Flanged

(mm)

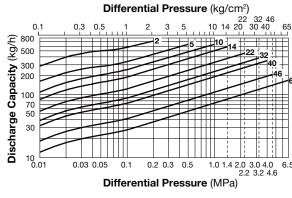
Size		ASME	Class	н		H ₁	W	Weight** (kg)
	150RF	300RF	600RF	900RF*				(kg)
15	239	239	239	269				8.4 [12]
20	264	264	264	294	475	405	05 115 07] [125]	9.8 [14]
25	309	309	309	319	175 [177]	[107]		11 [16]
40	290	290	290	300	.			15 [19]
50	300	300	300	310				19 [23]

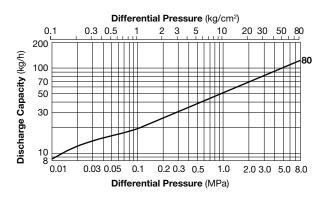
Other standards available, but length and weight may vary

Discharge Capacity

• JH5RL-P

• JH5RH-P





- 1. Line numbers within the graph refer to 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 this product under conditions that exceed maximum differential pressure, as condensate backup will occur!

Manufacturer

Kakogawa, Japan

ISO 14001

proved by LRQA Ltd. to ISO 9001/14001

²⁵⁸ * Rc(PT), other standards avalilable

^{*} Option
** Weight is for Class 600 RF
[] JH5RH-P