

FREE FLOAT STEAM TRAP

MODEL JH7RX CAST STEEL

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

A reliable and durable cast steel* free float steam trap with tight shut-off for use on medium-size process equipment.

- Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
- Precision ground float, constant water seal and three-point seating design ensure a steam-tight seal, even under no-load conditions.
- Only one moving part, the free float, eliminates concentrated valve wear and provides long maintenance-free service life.
- Thermostatic capsule (X-element) with "fail open" feature vents air automatically until close-to-steam temperature, for rapid start-up, increased productivity and even heating.
- Built-in screen with large surface area ensures trouble-free operation.
- 6. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.
- * Stainless steel body available on request.



Specifications

Model		JH7RX				
Connection		Socket Welded	Flanged			
Size		DN 20, 25, 40	DN 20, 25, 40, 50			
Orifice No.		1*, 2, 5, 10, 14, 22, 32				
Maximum Operating Pressure (barg)	PMO	1 , 2, 5, 10, 14, 22, 32				
Maximum Differential Pressure (bar)	ΔΡΜΧ	1 , 2, 5, 10, 14, 22, 32				
Maximum Operating Temperature (°C)	TMO	240				
Subcooling of X-element Fill (°C)		up to 6				
Type of X-element		E	3			

^{*} No.1 orifice is available only for DN 40 and 50 PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 40

1 bar = 0.1 MPa

CAUTION

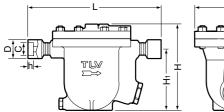
Maximum Allowable Temperature (°C) TMA: 400
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	DIN*	ASTM/AISI*
1	Body	Cast Steel A216 Gr. WCB	1.0619	_
2	Cover	Carbon Steel A105	1.0460	_
3 ^F	Float	Stainless Steel SUS 316L	1.4404	AISI316L
(4)R	Orifice	_	_	_
⑤ ^{MR}	Orifice Gasket	Soft Iron SUYP	1.1121	AISI1010
6	Orifice Plug	Cast Stainless Steel A351 Gr. CF8	1.4312	_
⑦ ^{MR}	Orifice Plug Gasket	Soft Iron SUYP	1.1121	AISI1010
8	Screen Holder	Stainless Steel SUS304	1.4301	AISI304
9 ^R	Screen inside/outside	Stainless Steel SUS430/304	1.4301/1.4016	AISI430/304
10	Socket**/Flange	Carbon Steel A105	1.0460	_
11)	Cover Bolt	Alloy Steel SNB7	1.7225	A193 Gr. B7
12	Cover Nut	Carbon Steel S45C	1.0503	AISI1045
13 ^{MR}	Cover Gasket	Stainless Steel SUS316L/Graphite	1.4404	AISI316L
14)	Connector	Stainless Steel SUS416	_	AISI416
15 ^{MR}	Connector Gasket	Stainless Steel SUS316L/Graphite	1.4404	AISI316L
16 ^R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
①R	X-element	Stainless Steel	_	_
18 ^R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
19 ^R	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
20	Nameplate	Stainless Steel SUS304	1.4301	AISI304
21)MR	Drain Plug Gasket	Soft Iron SUYP	1.1121	AISI1010
22	Drain Plug	Carbon Steel S25C	1 1158	AISI1025

Consulting & Engineering Service

Dimensions

• JH7RX Socket Welded

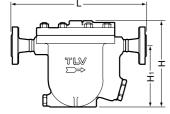


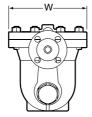


JH7RX		Socket Welded* (mr						(mm)	
	DN	L	Н	H ₁	φW	φD	φC	h	Weight (kg)
	20	322				41.5	27.05		17
	25	334	226	160	206	50	33.80	14	
	40	336				66	48.65		19

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





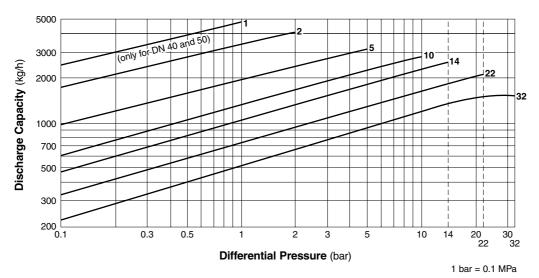


JH7RX Flanged (m									
DN	DIN 2501	L AS	ME Cla	Н	H₁	φW	Weight*		
	PN25/40	150RF	300RF	600RF				(kg)	
20	340	340	340	340				20	
25	385	385	385	385	226	160	206	21	
40	380	380	380	380	220	100		23	

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390 390 Other standards available, but length and weight may vary * Weight is for DIN PN 25/40

Discharge Capacity



40 50

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- 1. Line numbers within the graph refer to orifice numbers.
- 2. No.1 orifice is available only for DN 40 and 50.
- Differential pressure is the difference between the inlet and outlet pressure of the trap.

 Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature.
- 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





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is approved by LRQA Ltd. to ISO 9001/14001