



FREE FLOAT STEAM TRAP

MODEL JH5RX CAST STEEL

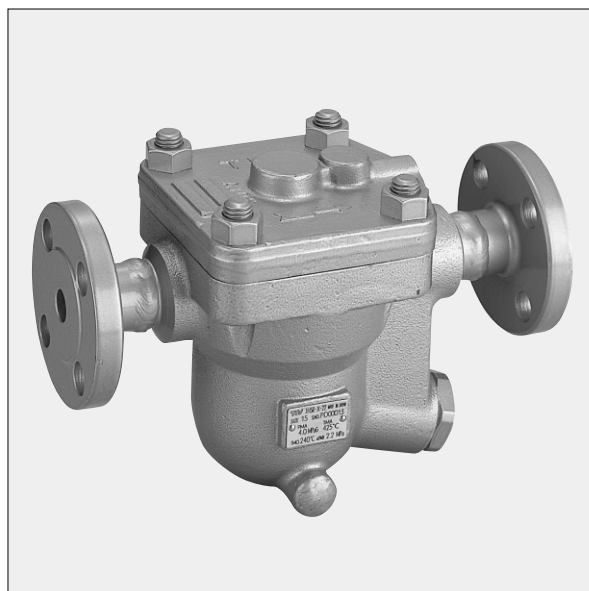
FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

A reliable and durable cast steel* free float steam trap with tight shut-off for use on steam mains and 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. Only one moving part, the free float, eliminates concentrated valve wear and provides long maintenance-free service life.
4. Thermostatic capsule (X-element) with "fail open" feature vents air automatically until close-to-steam temperature, for rapid start-up.
5. Built-in screen with large surface area ensures extended trouble-free operation.
6. Easy, inline access to internal parts simplifies cleaning and lowers maintenance costs.

* Stainless steel body available on request



Specifications

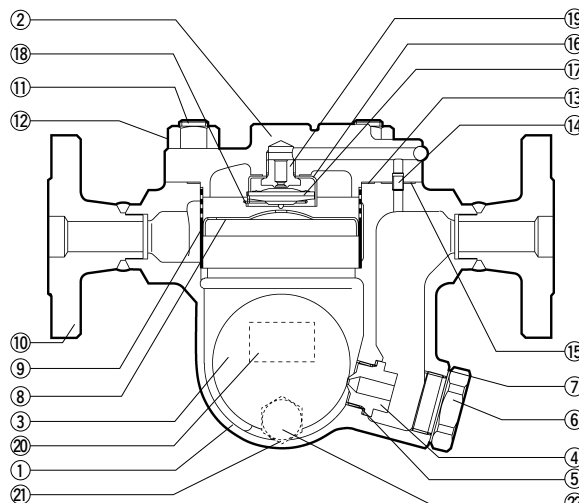
Model	JH5RX		
Connection	Screwed	Flanged	Flanged
Size	1/2", 3/4", 1	DN 15, 20, 25	
Orifice No.	2, 5, 10, 14, 22, 32		
Maximum Operating Pressure (barg) PMO	2, 5, 10, 14, 22, 32		
Maximum Differential Pressure (bar) Δ PMX	2, 5, 10, 14, 22, 32		
Maximum Operating Temperature (°C) TMO	240		
Subcooling of X-element Fill (°C)	Up to 6		
Type of X-element	B		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 40 1 bar = 0.1 MPa
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 SUS316L	1.4404	AISI316L
④ ^R	Orifice	—	—	—
⑤ ^{MR}	Orifice Gasket	Soft Iron SUYP	1.1121	AISI1010
⑥	Orifice Plug	Cast Stainless Steel SCS2A	1.4027	A217 Gr. CA15
⑦ ^{MR}	Orifice Plug Gasket	Soft Iron SUYP	1.1121	AISI1010
⑧ ^R	Float Cover	Stainless Steel SUS304	1.4301	AISI304
⑨ ^R	Screen inside/outside	Stainless Steel SUS430/304	1.4016/ 1.4301	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	Stainl. Steel SUS316L/Graphite	1.4404	AISI316L
⑭	Connector	Stainless Steel SUS416	1.4005	AISI416
⑮ ^{MR}	Connector Gasket	Stainl. Steel SUS316L/Graphite	1.4404	AISI316L
⑯ ^R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
⑰ ^R	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	Drain Plug Gasket***	Soft Iron SUYP	1.1121	AISI1010
㉒	Drain Plug***	Carbon Steel S25C	1.1158	AISI1025

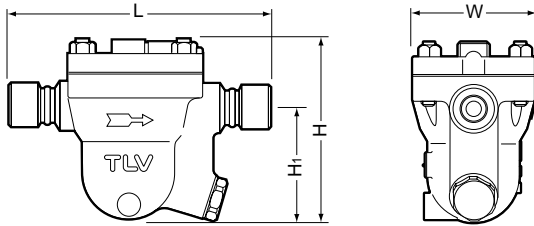


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* Equivalent materials ** Shown on reverse *** Option
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

Dimensions

● **JH5RX** Screwed

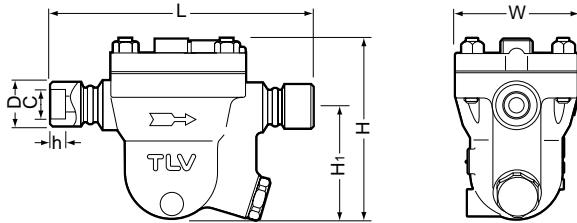


JH5RX Screwed* (mm)

Size	L	H	H ₁	W	Weight (kg)
1/2"	234	162	105	115	6.5
3/4"	246				6.6
1"	258				6.7

* BSP DIN 2999, other standards available

● **JH5RX** Socket Welded

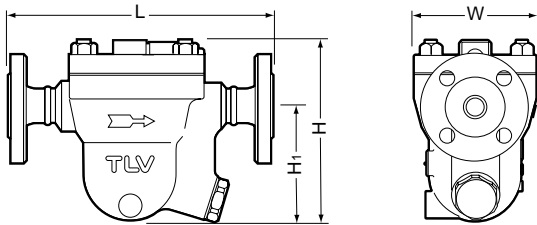


JH5RX Socket Welded* (mm)

DN	L	H	H ₁	W	φD	φC	h	Weight (kg)
15	234	162	105	115	33	21.70	12	6.5
20	246				39.5	27.05	14	6.6
25	258				48	33.80		6.7

* ASME B16.11, other standards available

● **JH5RX** Flanged



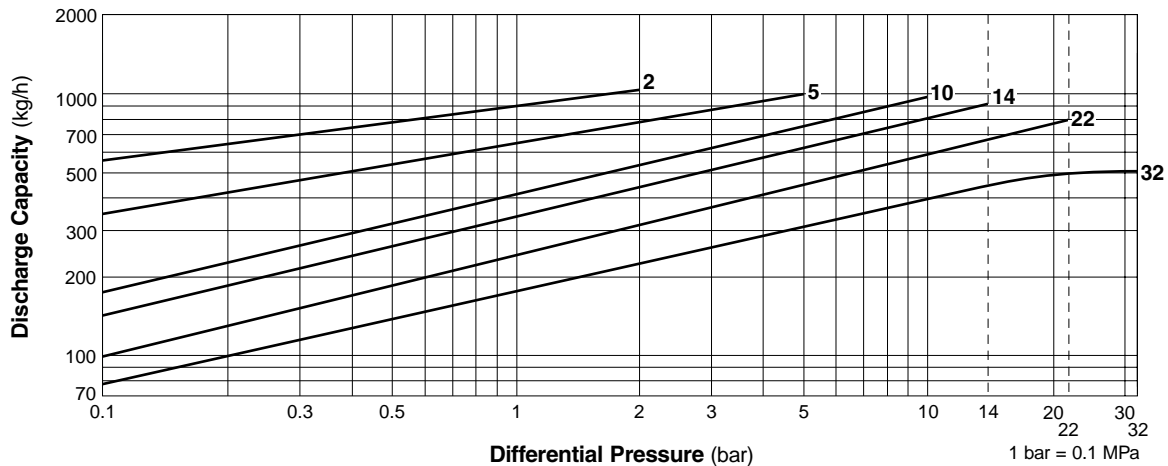
JH5RX Flanged (mm)

Size	L				H	H ₁	W	Weight* (kg)
	DIN2501	ASME Class						
	PN25/40	150RF	300RF	600RF				
15	239	239	239	239	162	105	115	8.4
20	264	264	264	264				9.8
25	309	309	309	309				11

Other standards available, but length and weight may vary

* Weight is for DIN PN 25/40

Discharge Capacity



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 traps under conditions that exceed maximum differential pressure, as condensate backup will occur!

Manufacturer

ISO 9001/ISO 14001

TLV® CO., LTD.
Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

