FREE FLOAT STEAM TRAP

MODEL JH8RX CAST STEEL

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

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

1. Self-modulating free float provides continuous,smooth, low velocity condensate discharge as process loads vary.
2. Constant water-seal design ensures steam-tight seal, even under low-load conditions.
3. Only one moving part, the free float, eliminates concentrated wear and provides long maintenance-free service life.
4. Thermostatic capsule with "fail open" feature vents air automatically until close-to-steam temperature for rapid start-up, increased productivity and even heating.
5. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.
6. Built-in screen with large surface ensures trouble free operation.

* Stainless Steel bodies available on request

Specifications

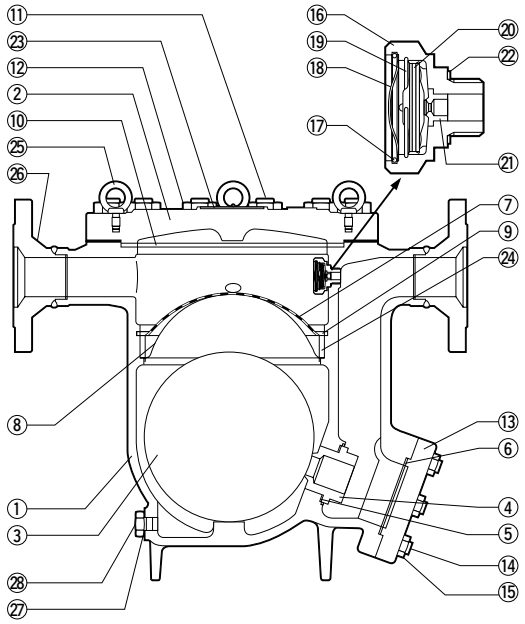
Model		JH8RX
Connection		Flanged
Size		DN 50, 80, 100
Orifice No.		0.5, 1, 2, 5, 10, 14, 22, 32
Maximum Operating Pressure (barg)	PMO	0.5, 1, 2, 5, 10, 14, 22, 32
Maximum Differential Pressure (bar)	ΔPMX	0.5, 1, 2, 5, 10, 14, 22, 32
Maximum Operating Temperature (°C)	TMO	240
Subcooling of X-element Fill (°C)		up to 6
Type of X-element		B

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 46 1 bar = 0.1 MPa
Maximum Allowable Temperature (°C) TMA: 400

⚠ 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

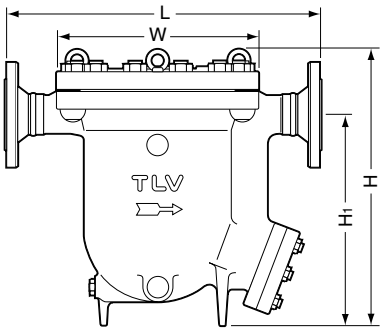
No.	Description	Material*	DIN	ASTM/AISI
①	Body	Cast Steel SCPH2	1.0619	A216 Gr. WCB
②	Cover	Carbon Steel A105	1.0460	A105
③F	Float	Stainless Steel SUS316L	1.4404	AISI316L
④R	Orifice	Cast Stainless Steel SCS2A	1.4027	A217 Gr. CA15
⑤MR	Orifice Gasket	Soft Iron SUYP	1.1121	AISI1010
⑥MR	Outlet Cover Gasket	Stainl. Stl. SUS304/Graphite	1.4301	AISI304
⑦R	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
⑩MR	Cover Gasket	Stainl. Stl. SUS304/Graphite	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	Carbon Steel S45C	1.0503	AISI1045
⑯X	X-element Case	Cast Stainless Steel SCS13A	1.4308	A351 Gr. CF-8
⑰X	Snap Ring	Stainless Steel SUS304	1.4301	AISI304
⑱X	X-element Screen	Stainless Steel SUS304	1.4301	AISI304
⑲X	Spring Clip	Stainless Steel SUS304I	1.4301	AISI304
⑳X	X-element	Stainless Steel	—	—
㉑X	Air Vent Valve Seat	Stainless Steel SUS630	1.4542	AISI630
㉒MR X	X-element Case Gasket	Soft Iron SUYP	1.1121	AISI1010
㉓	Nameplate	Stainless Steel SUS304	1.4301	AISI304
㉔	Screen Holder Retainer	Stainless Steel SUS304	1.4301	AISI304
㉕	Eye Bolt	Carbon Steel SS400	1.0037	A283 Gr. C
㉖	Flange	Cast Steel A216 Gr. WCB	1.0619	A216 Gr. WCB
	Socket	Carbon Steel A105	1.0460	A105
㉗MR	Drain Plug Gasket	Soft Iron SUYP	1.1121	AISI1010
㉘	Drain Plug	Carbon Steel S25C	1.1158	AISI1025

* Equivalent materials
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float, (X) X-element unit



Dimensions

● **JH8RX** Flanged

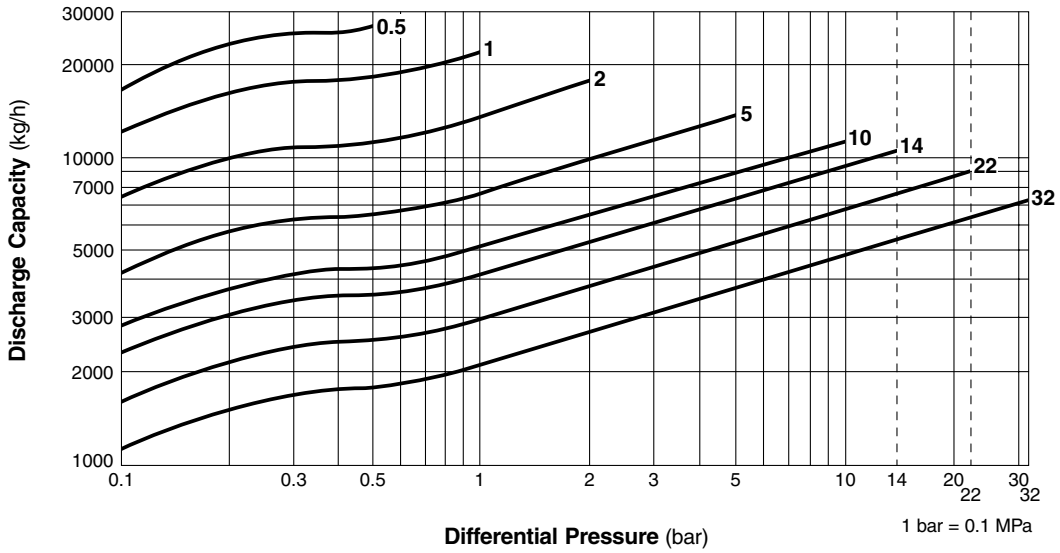


JH8RX Flanged (mm)

DN	L				H	H1	φW	Weight* (kg)
	DIN 2501	ASME Class						
	PN25/40	150RF	300RF	600RF				
50	592	591	597	616	524	400	375	118
80	588	588	598	617				125
100	580	570	596	622				132

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.

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