



FREE FLOAT STEAM TRAP

MODEL JH7.2X 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 medium-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.



Specifications

Model		JH7.2X
Connection		Flanged
Size		DN 40, 50
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

1 bar = 0.1 MPa

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



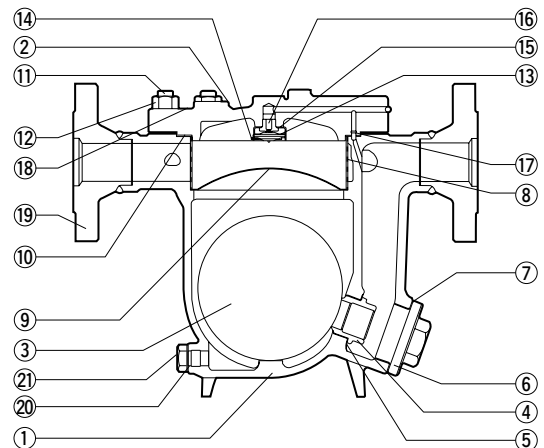
CAUTION

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
③ ^F	Float	Stainless Steel SUS316L	1.4404	AISI316L
④ ^R	Orifice	Cast Stainl. Steel SCS2A	1.4027	A217 Gr. CA15
⑤ ^{MR}	Orifice Gasket	Soft Iron SUYP	1.1121	AISI1010
⑥	Orifice Plug	Cast Stainless Steel SCS13A	1.4308	A351 Gr. CF8
⑦ ^{MR}	Orifice Plug Gasket	Soft Iron SUYP	1.1121	AISI1010
⑧ ^R	Screen (outside/inside)	Stainless Steel SUS304/ Stainless Steel SUS430	1.4301/ 1.4016	AISI304/ AISI430
⑨	Screen Holder	Stainless Steel SUS304	1.4301	AISI304
⑩ ^{MR}	Cover Gasket	Stainless Steel/Graphite SUS316L	1.4404	AISI316L
⑪	Cover Bolt	Alloy Steel SNB16	1.7711	A193 Gr. B16
⑫	Cover Nut	Carbon Steel S45C	1.0503	AISI1045
⑬ ^R	X-element	Stainless Steel	—	—
⑭ ^R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
⑮ ^R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
⑯ ^R	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
⑰	Connector	Stainless Steel SUS416	1.4005	AISI416
⑱	Nameplate	Stainless Steel SUS304	1.4301	AISI304
⑲	Socket/Flange	Carbon Steel A105	1.0460	A105
⑳ ^{MR}	Drain Plug Gasket	Soft Iron SUYP	1.1121	AISI1010
㉑	Drain Plug	Carbon Steel S25C	1.1158	AISI1025

* Equivalent materials

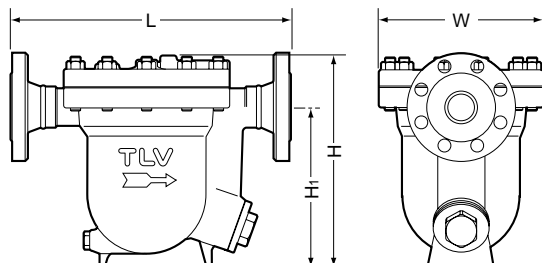
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float



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Dimensions

● JH7.2X Flanged



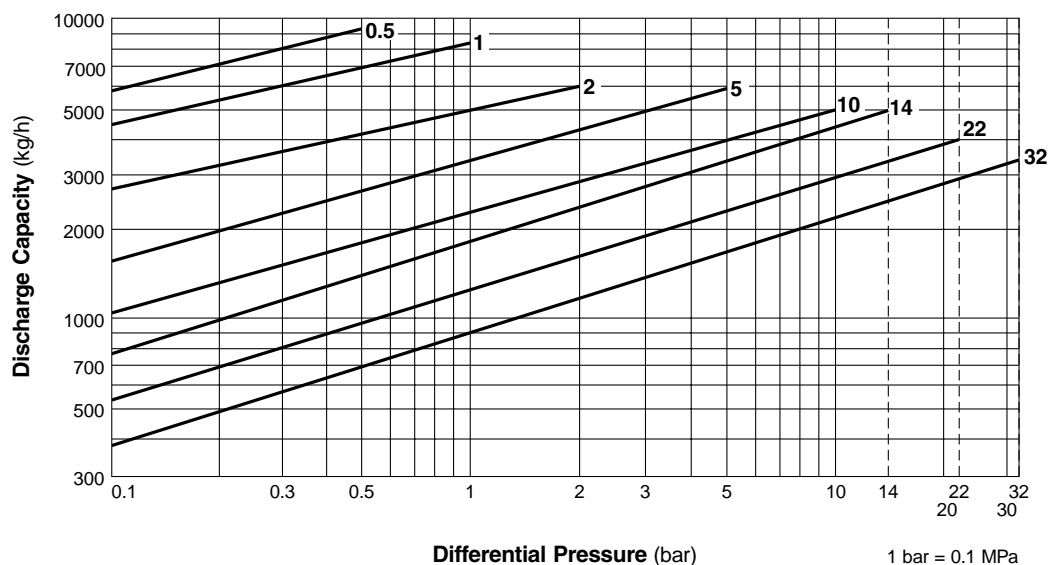
JH7.2X Flanged (mm)

DN	L				H	H ₁	φW	Weight* (kg)
	DIN 2501 PN25/40	ASME Class 150RF	300RF	600RF				
40	407	406	413	429	320	244	250	38
50	411	410	416	435				41

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

ISO 9001/ISO 14001

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

