FREE FLOAT STEAM TRAP

MODEL JH5X 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 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. 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

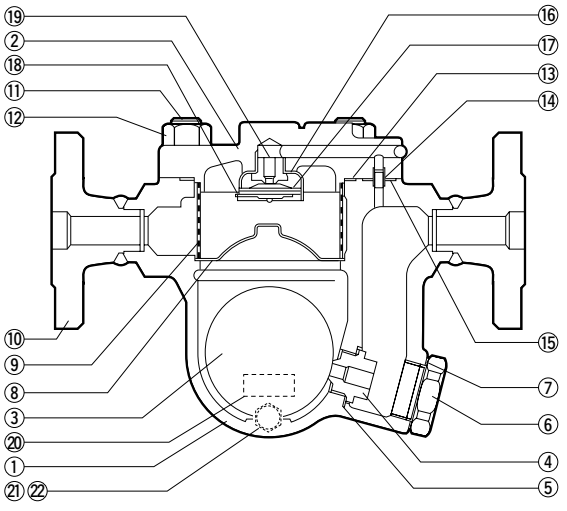
Model		JH5X
Connection		Flanged
Size		DN 20, 25
Orifice No.		2, 5, 10, 14, 22, 32
Maximum Operating Pressure (barg)	PMO	2, 5, 10, 14, 22, 32
Maximum Differential Pressure (bar)	ΔPMX	2, 5, 10, 14, 22, 32
Maximum Operating Temperature (°C)	TMO	240
Subcooling of X-element Fill (°C)		up to 6
Type of X-element		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

⚠ 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.

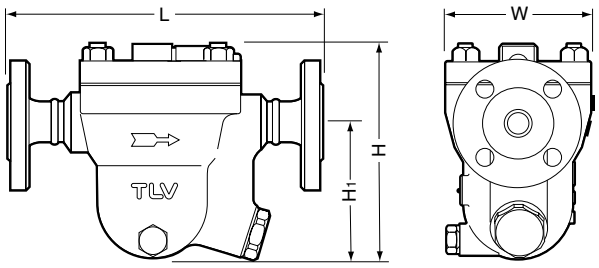
No.	Description	Material*	DIN	ASTM/AISI
①	Body	Cast Steel A216 Gr. WCB	1.0619	A216 Gr. WCB
②	Cover	Carbon Steel A105	1.0460	A105
③F	Float	Stainless Steel SUS316L	1.4404	AISI316L
④R	Orifice	Stainless Steel SUS420F	1.4028	AISI420F
⑤MR	Orifice Gasket	Soft Iron SUYP	1.1121	AISI1010
⑥	Orifice Plug	Cast Stainless Steel SCS2A	1.4027	A217 Gr. CA15
⑦MR	Orifice Plug Gasket	Soft Iron SUYP	1.1121	AISI1010
⑧R	Float Cover	Stainless Steel SUS304	1.4301	AISI304
⑨R	Screen (outside/ inside)	Stainless Steel SUS304/ Stainless Steel SUS430	1.4301/ 1.4016	AISI304/ AISI430
⑩	Flange**	Cast Steel A216 Gr. WCB/ Carbon Steel A105	1.0619/ 1.0460	A216 Gr. WCB/ A105
⑪	Cover Bolt	Alloy Steel SNB7	1.7225	A193 Gr.B7
⑫	Cover Nut	Carbon Steel S45C	1.0503	AISI1045
⑬MR	Cover Gasket	Stainless Steel SUS316L/Graphite	1.4404	AISI316L
⑭	Connector	Stainless Steel SUS416	1.4005	AISI416
⑮MR	Connector Gasket	Stainless Steel SUS316L/Graphite	1.4404	AISI316L
⑯R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
⑰R	X-element	Stainless Steel	—	—
⑱R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
⑲R	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
⑳	Nameplate	Stainless Steel SUS304	1.4301	AISI304
㉑MR	Drain Plug Gasket	Soft Iron SUYP	1.1121	AISI1010
㉒	Drain Plug	Carbon Steel S25C	1.1158	AISI1025

* Equivalent materials ** Material depends on flange specifications
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float



Dimensions

● **JH5X** Flanged

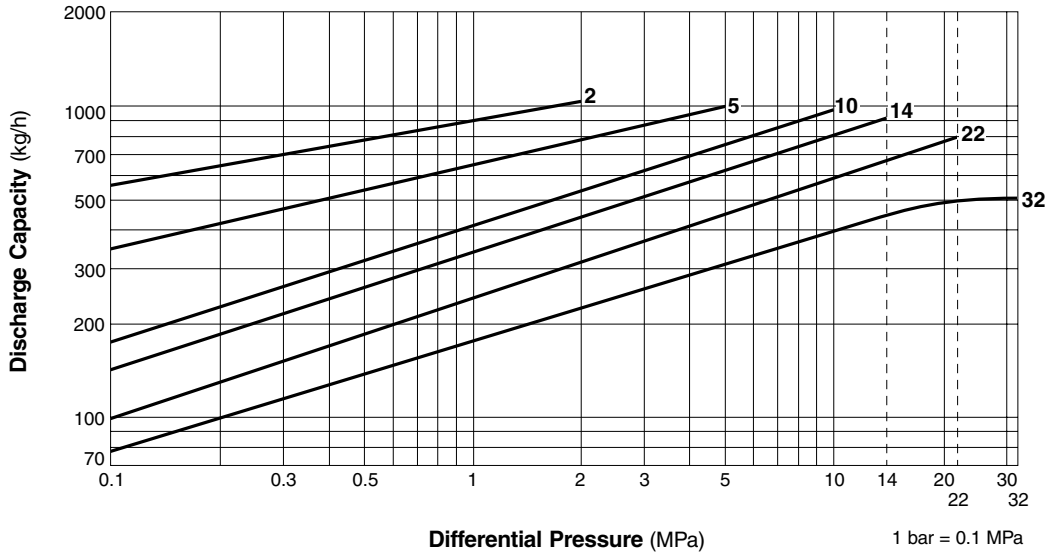


JH5X Flanged (mm)

DN	L				H	H1	W	Weight* (kg)
	DIN 2501	ASME Class						
	PN25/40	150RF	300RF	600RF				
20	250	250	250	250	165	106	115	9.5
25								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.

⚠ 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