FREE FLOAT STEAM TRAP

MODEL JH3X CAST STEEL

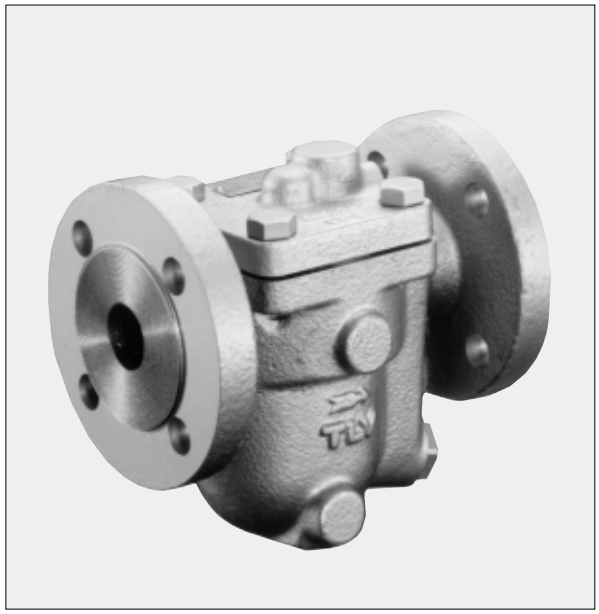
CAST STEEL FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

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 and unique three-point seating ensure perfect steam-tight seal, even under no-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 body available on request



Specifications

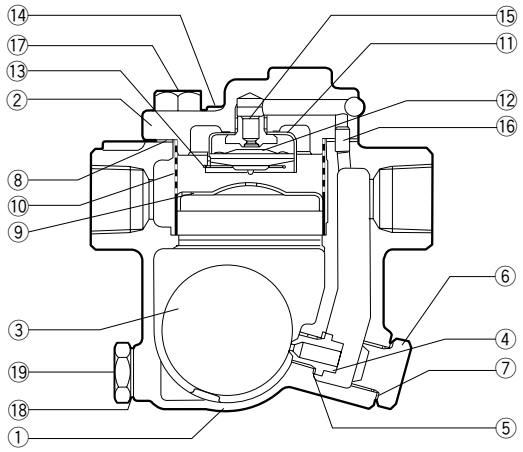
Model		JH3X	
Connection		Screwed	Flanged
Size		½″, ¾″, 1″	DN 15, 20, 25
Orifice No.		2, 5, 10, 14, 22, 32	
Maximum Operating Pressure (barg)	PMO	2, 5, 10, 14, 22, 32	
Maximum Differential Pressure (bar)	ΔPMX	2, 5, 10, 14, 22, 32	
Maximum Operating Temperature (°C)	TMO	240	
Subcooling of X-element Fill (°C)		up to 6	
Type of X-element		B	

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 32 1 bar = 0.1 MPa
Maximum Allowable Temperature (°C) TMA: 350

⚠ 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 GS-C25	1.0619	A216 Gr. WCB
②	Cover	Carbon Steel C22.8	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	Stainless Steel SUS303	1.4305	AISI303
⑦MR	Plug Gasket	Soft Iron SUYP	1.1121	AISI1010
⑧MR	Cover Gasket	Stainl. Stl. SUS316L/Graphite	1.4404	AISI316L
⑨R	Float Cover	Stainless Steel SUS304	1.4301	AISI304
⑩R	Screen outer/inner	Stainl. Steel SUS304/430	1.4301/4016	AISI304/430
⑪R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
⑫R	Air Vent (X-element)	Stainless Steel	—	—
⑬R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
⑭	Nameplate	Stainless Steel SUS304	1.4301	AISI304
⑮R	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
⑯	Connector	Stainless Steel SUS416	1.4005	AISI416
⑰	Cover Bolt	Carbon Steel S45C	1.0503	AISI1045
⑱MR	Drain Plug Gasket	Soft Iron SUYP	1.1121	AISI1010
⑲	Drain Plug	Carbon Steel S25C	1.1158	AISI1025

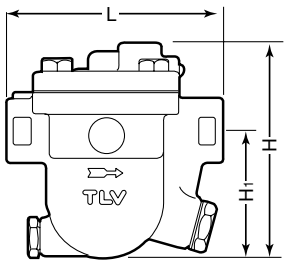
* Equivalent Materials
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float



Drain plug location(inlet side or front facing side) depends on connection type and size.

Dimensions

● **JH3X**
Screwed

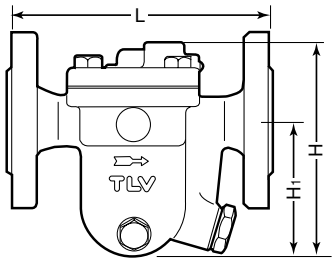


JH3X Screwed* (mm)

Size	L	H	H_1	Weight (kg)
½″	130	133	82	3
¾″				
1″	133	146	91	3.1

* BSP DIN 2999, other standards available

● **JH3X**
Flanged

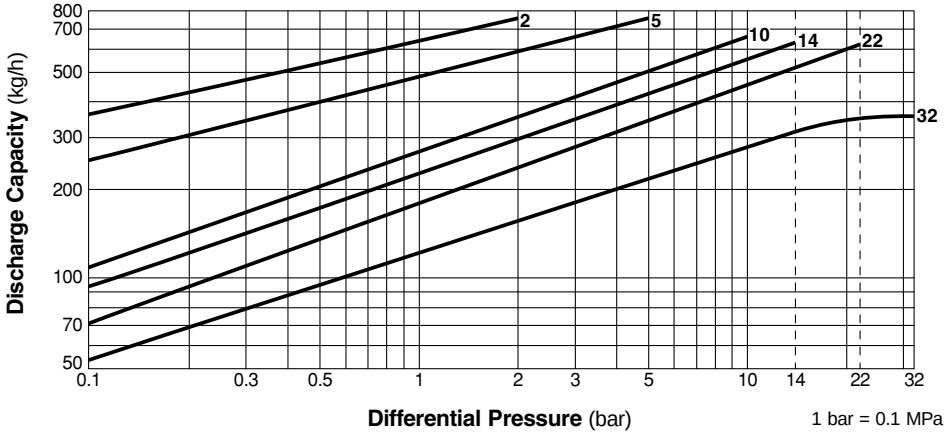


JH3X Flanged (mm)

DN	L				H	H_1	Weight* (kg)
	DIN 2501	ASME Class					
	PN25/40	150RF	300RF	600RF			
15	150	210	210	210	132 (146)	84 (91)	4.3
20					140 (146)	91 (91)	5.0
25	160				145 (146)	92 (91)	5.6

Other standards available, but length and weight may vary
* Weight is for DIN PN 25/40 ( ) ASME dimensions

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