



FREE FLOAT STEAM TRAP

MODEL JH7.2X/JH7.2

CAST STEEL FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Benefits

Extremely durable, inline repairable free float trap with tight shut-off for drainage of medium-size process heaters.

1. Self-modulating free float provides soft and continuous, low velocity discharge as process loads vary for maximum production performance.
2. Unique rotational seating design eliminates concentrated wear to provide long maintenance-free service life.
3. JH7.2X: durable thermostatic unit automatically vents air for exceptional start-up and performance.
4. Easy, inline access to internal parts simplifies cleaning and lowers maintenance costs.
5. Rugged float construction with up to 1570 psig hydraulic shock rating ensures excellent resistance to water hammer.
6. Built-in screen with large surface area ensures extended trouble-free service.



U.S. Pat. 5,197,669 (JH7.2X)

Specifications

Model		JH7.2X	JH7.2
Connection		Flanged	Flanged
Size (in)		1 1/2	1 1/2
Orifice No.		1, 2, 5, 10, 14, 22, 32	40
Maximum Operating Pressure (psig)	PMO	15, 30, 75, 150, 200, 315, 450	600
Maximum Differential Pressure (psi)	ΔPMX	15, 30, 75, 150, 200, 315, 450	600
Minimum Operating Pressure (psig)		Vacuum	Vacuum
Maximum Operating Temperature (°F)	TMO	464	800
Maximum Allowable Pressure (psig)	PMA	650	650
Maximum Allowable Temperature (°F)	TMA	800	800



CAUTION

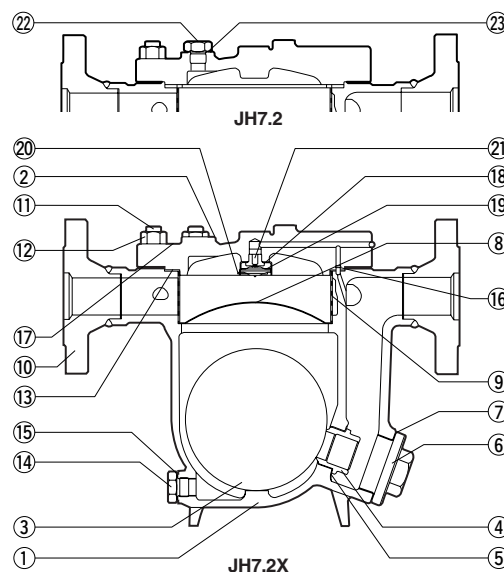
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

Connections and sizes in bold are standard

No.	Description	Material	ASTM/AISI*	JIS
①	Body	Cast Steel	A216 Gr. WCB	SCPH2
②	Cover	Carbon Steel	A105	—
③ ^F	Float	Stainless Steel	AISI316L	SUS316L
④ ^R	Orifice	Cast Stainless Steel	A217 Gr. CA15	SCS2A
⑤ ^{MR}	Orifice Gasket	Soft Iron	AISH1010	SUYP
⑥	Orifice Plug	Cast Stainless Steel	A351 Gr. CF8	SCS13A
⑦ ^{MR}	Orifice Plug Gasket	Soft Iron	AISH1010	SUYP
⑧	Screen Holder	Stainless Steel	AISI304	SUS304
⑨ ^R	Screen	Stainless Steel	AISI430	SUS430
⑩	Flange (shown overleaf)	Carbon Steel	A105	—
⑩	Socket	Carbon Steel	A105	—
⑪	Cover Bolt	Alloy Steel	A193 Gr. B16	SNB16
⑫	Cover Nut	Carbon Steel	AISI1045	S45C
⑬ ^{MR}	Cover Gasket (JH7.2X)	Stainless Steel/Graphite	AISI316L	SUS316L
	Cover Gasket (JH7.2)	Stainless Steel/Graphite	AISI304	SUS304
⑭	Drain Plug	Carbon Steel	AISI1025	S25C
⑮ ^{MR}	Drain Plug Gasket	Soft Iron	AISH1010	SUYP
⑯	Connector	Stainless Steel	AISI416	SUS416
⑰	Nameplate	Stainless Steel	AISI304	SUS304
⑱ ^P	X-element Guide	Stainless Steel	AISI304	SUS304
⑲ ^R	X-element	Stainless Steel	—	—
⑳	Spring Clip	Stainless Steel	AISI304	SUS304
㉑	Air Vent Valve Seat	Stainless Steel	AISI420F	SUS420F
㉒	Plug (JH7.2)	Carbon Steel	AISI1025	S25C
㉓ ^{MR}	Plug Gasket (JH7.2)	Soft Iron	AISH1010	SUYP

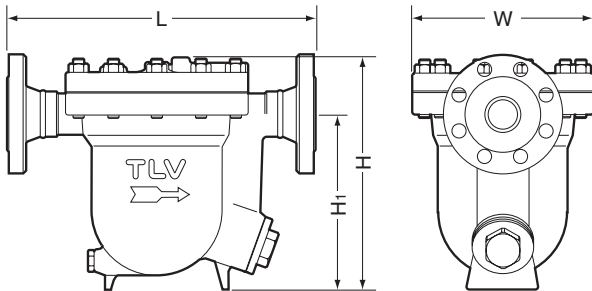
* Equivalent

Parts 18-21 for JH7.2X only, parts 22, 23 for optional air vent kit on JH7.2 only
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float



Dimensions

● **JH7.2X/JH7.2** Flanged



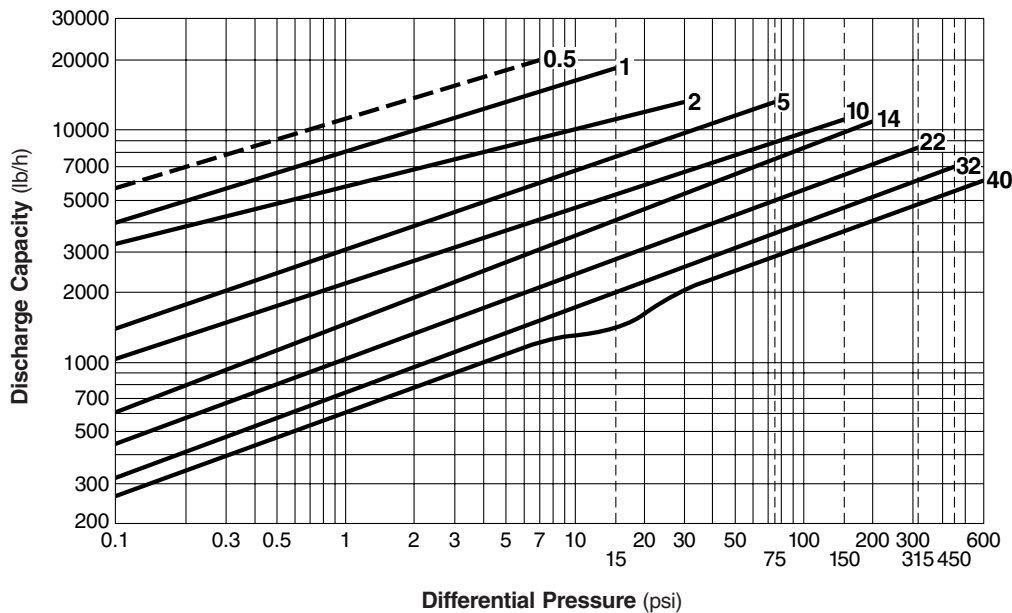
JH7.2X/JH7.2 Flanged (in)

Size	L			H	H ₁	φW	Weight* (lb)
	ASME Class						
	150RF	300RF	600RF				
1½	16	16¼	16⅞	12⅝	9⅝	9⅜	81

Other standards available, but length and weight may vary
* Weight is for Class 600 RF

Flange classes in bold are standard

Discharge Capacity



—— Standard - - - - Available on special request

Capacities for orifice #0.5 – 32 apply only to JH7.2X; capacity #40 applies only to JH7.2

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 11°F 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!

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Manufacturer

ISO 9001/ISO 14001

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

