

# FREE FLOATS STEAM TRAP

MODEL J7.5X

#### FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

### **Benefits**

Extremely durable, inline repairable free float trap with tight shut-off for drainage of medium to large size heating and process loads.

- Self-modulating free float provides soft, continuous, smooth, low velocity discharge, as process loads vary, for maximum performance.
- Unique rotational seating design eliminates concentrated wear to provide long maintenance-free service life.
- 3. 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.
- Rugged float construction with up to 1500 psig hydraulic shock rating ensures excellent resistance to water hammer.
- 6. Built-in screen with large surface area ensures extended trouble-free service.



## **Specifications**

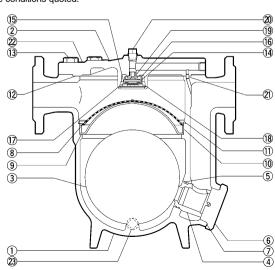
Model		J7.5X
Connection		Flanged
Size (in)		11/2, 2
Orifice No.		1, 2, 5, 10, 14, 18
Maximum Operating Pressure (psig)	PMO	15, 30, 75, 150, 200, 250
Maximum Differential Pressure (psi)	ΔΡΜΧ	15, 30, 75, 150, 200, 250
Minimum Operating Pressure (psig)		Vacuum
Maximum Operating Temperature (°F)	TMO	428
Maximum Allowable Pressure (psig)	PMA	250
Maximum Allowable Temperature (°F)	TMA	428

Connections and sizes in bold are standard

**A**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	ASTM/AISI*	JIS
1	Body	Cast Iron	A126 CI.B	FC250
2	Cover	Cast Iron	A126 CI.B	FC250
3F	Float	Stainless Steel	AISI316L	SUS316L
<b>4</b> R	Orifice	_	_	_
⑤MR	Orifice O-Ring	Ethylene Propylene Rubber	D2000CA	EPR
6	Orifice Holder Plug	Ductile Cast Iron	A536 Gr. 65-45-12	FCD450
7)MR	Holder Plug Gasket	Fluorine Resin	PTFE	PTFE
8 <sup>R</sup>	Screen	Stainless Steel	AISI430	SUS430
9	Screen Holder	Stainless Steel	AISI304	SUS304
10	Screen Holder Retainer	Stainless Steel	AISI304	SUS304
11)	Snap Ring	Stainless Steel	AISI304	SUS304
12MR	Cover Gasket	Graphite/Stainless Steel	-/AISI316L	-/SUS316L
13	Cover Bolt	Carbon Steel	AISI1045	S45C
(14)P	X-element	Stainless Steel	_	_
(15)R	Spring Clip	Stainless Steel	AISI304	SUS304
16R	X-element Guide	Stainless Steel	AISI304	SUS304
①R	X-element Cover	Stainless Steel	AISI304	SUS304
18R	Snap Ring	Stainless Steel	AISI304	SUS304
19R	Air Vent Valve Seat	Stainless Steel	AISI420F	SUS420F
20	Plug	Carbon Steel	A6	SS400
21)	Connector	Stainless Steel	AISI416	SUS416
22	Nameplate	Stainless Steel	AISI304	SUS304
23)	Drain Plug	Carbon Steel	A6	SS400

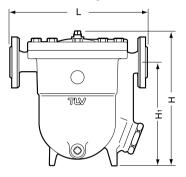


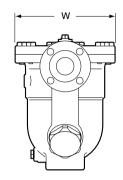


## **Consulting & Engineering Service**

## **Dimensions**

#### ● J7.5X Flanged





J7.5X	Flanged
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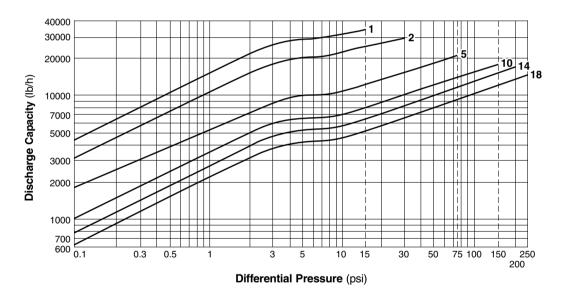
(in) Weight\* Size Connects to ASME Class (lb) 125FF 250RF 11/2 15 157/16 15 1/8 94 12<sup>1</sup>/<sub>16</sub> **11**<sup>7</sup>/16 2 15<sup>7</sup>/16 15<sup>13</sup>/16 100

Other standards available, but length and weight may vary

\* Weight is for Class 250 RF

Flange classes in bold are standard

## **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 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!



DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE.

Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY

# **TLV** CORPORATION

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Manufacturer

Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001/ISO 14001



