

FREE FLOAT® STEAM TRAP

MODEL J7X

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 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.
- 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.
- Built-in screen with large surface area ensures extended trouble-free service.



Specifications

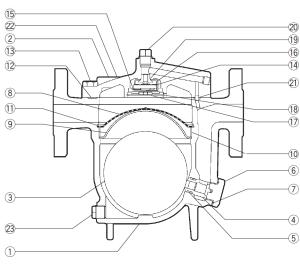
Model		JS7X	J7X
Connection		Screwed	Flanged
Size (in)		1, 1½	1, 1½,2
Orifice No.		2.5, 5, 10), 14, 18
Maximum Operating Pressure (psig)	PMO	35, 75, 150, 200, 250	
Maximum Differential Pressure (psi)	ΔΡΜΧ	35, 75, 150, 200, 250	
Minimum Operating Pressure (psig)		Vac	uum
Maximum Operating Temperature (°F)	TMO	42	28
Maximum Allowable Pressure (psig)	PMA	25	50
Maximum Allowable Temperature (°F)	TMA	42	28

Connections and sizes in bold are standard

ACAUTION

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	A842 Gr.400	FCV400
2	Cover	Cast Iron	A842 Gr.400	FCV400
3F	Float	Stainless Steel	AISI316L	SUS316L
4 R	Orifice	_	_	
5 ^{MR}	Orifice O-Ring	Synthetic Rubber	D2000CA	EPR
6	Orifice Holder Plug	Carbon Steel	AISI1025	S25C
7 ^{MR}	Holder Plug Gasket	Fluorine Resin	PTFE	PTFE
8 ^R	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	Fluorine Resin	PTFE	PTFE
13	Cover Bolt	Carbon Steel	AISI1045	S45C
(14)R	X-element	Stainless Steel	1	_
(15)R	Spring Clip	Stainless Steel	AISI304	SUS304
16 ^R	X-element Guide	Stainless Steel	AISI304	SUS304
17 ^R	X-element Cover	Stainless Steel	AISI304	SUS304
18 ^R	Snap Ring	Stainless Steel	AISI304	SUS304
19 ^R	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



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

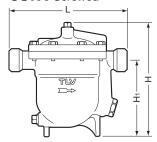
^{*} Equivalent

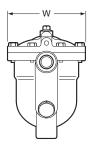


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Dimensions

JS7X Screwed

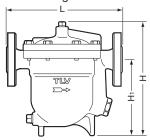


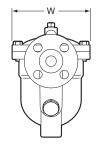


JS7X	Screwed	*	(
Size	L	Н	H ₁	W	Weight (lb)	
1	11	11	7 5/16	75/16	29	
1 1/2	''	11 1/8	7 1/2	1 /16	31	

^{*} NPT, other standards available

J7X Flanged





J7X Flanged

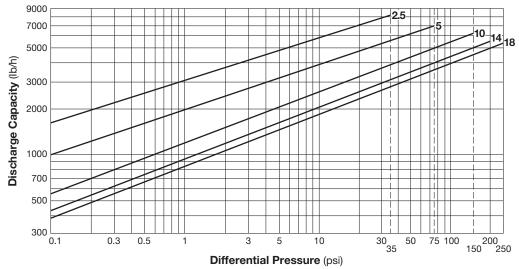
(in)

•	Size	Connects to	Н	H₁	W	Weight*	
		125FF	250RF	П	П	VV	(lb)
•	1	103/16	10%	11	7 5/16		34
	1 ½	11 %	111//8	11%	7 1/2	7 5/16	39
	2	11 1/8	11 %	12	7 11/16		41

Other standards available, but length and weight may vary

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 this productunder 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.

TLY: CORPORATION

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Manufacturer

TLV, CO., LTD

Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

ISO 14001

ISO 9001

^{*} Weight is for Class 250 RF