

FREE FLOAT. **STEAM TRAP** MODEL J3X

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Benefits

Extremely durable, inline repairable free-float trap with tight shut-off for drainage of small process loads.

- 1. Self-modulating free float provides soft and continuous, low velocity discharge as process loads vary for maximum performance.
- 2. Unique rotational seating design eliminates concentrated wear to provide long 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.
- 5. Rugged float construction with up to 1740 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		J3X	JF3X
Connection		Screwed	Flanged
Size (in)		1/2, 3/4, 1	1
Orifice No.		1*, 2, 5, 10, 21	1, 2, 5, 10, 18
Maximum Operating Pressure (psig)	PMO	15, 30, 75, 150, 300	15, 30, 75, 150, 250
Maximum Differential Pressure (psi)	ΔPMX	15, 30, 75, 150, 300	15, 30, 75, 150, 250
Minimum Operating Pressure (psig)		Va	icuum
Maximum Operating Temperature (°F)	TMO		428
Maximum Allowable Pressure (psig)	PMA	300	250
Maximum Allowable Temperature (°F)	TMA		428

* #1	orifice	is	standard	only	on	3⁄4″	size	
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No.	Description	Materials	ASTM/AISI*	JIS
1	Body (J3X)	Ductile Cast Iron	A536 Gr.65-45-12	FCD450
1	Body (JF3X)	Cast Iron	A842 Gr.400	FCV400
2	Cover	Ductile Cast Iron	A536 Gr.65-45-12	FCD450
3F	Float	Stainless Steel	AISI316L	SUS316L
4	Orifice Holder Plug	Carbon Steel	AISI1025	S25C
5 MR	Orifice Plug Gasket	Fluorine Resin	PTFE	PTFE
6 R	Orifice		—	_
7) MR	Orifice O-Ring	Synthetic Rubber	D2000CA	EPR
8 R	Screen	Stainless Steel	AISI430	SUS430
9 MR	Cover Gasket	Fluorine Resin	PTFE	PTFE
10	Nameplate	Stainless Steel	AISI304	SUS304
1) R	Float Cover	Stainless Steel	AISI304	SUS304
12 R	X-element Guide	Stainless Steel	AISI304	SUS304
(13 R	X-element	Stainless Steel	—	_
[4] R	Spring Clip	Stainless Steel	AISI304	SUS304
(15 R	Air Vent Valve Seat	Stainless Steel	AISI420F	SUS420F
16	Connector	Stainless Steel	AISI416	SUS416
17	Cover Bolt	Carbon Steel	AISI1045	S45C
18	Plug	Carbon Steel	AISI1025	S25C
19MR	Plug Gasket	Fluorine Resin	PTFE	PTFE
20	Drain Plug Gasket**	Soft Iron	AISI1010	SUYP
21	Drain Plug**	Carbon Steel	AISI1025	S25C

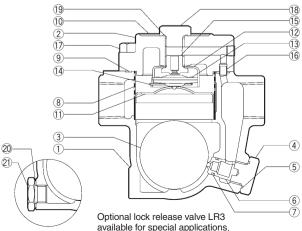
auivalent

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

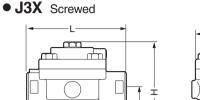
Connections and sizes in bold are standard

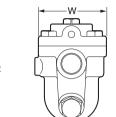
To avoid abnormal operation, accidents or serious

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.



Dimensions



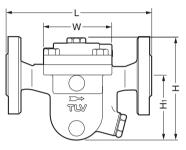


J3X Screwed* (in) Size Н Ηı W Weight (lb) Т 1/2 2¹⁵/16 6.0 5 1/8 2 1/8 3⁄4 6.2 4 ³/₄ 31/8 5 3/8 2¹⁵/16 6.6 1

* NPT, other standards available

• JF3X Flanged

 $\Sigma \approx$ TLV



JF3X Flanged (in)						
Size	L Connects to ASME Class 125FF 250RF		Н	Hı	W	Weight* (lb)
1	8	8 ⁷ ⁄16	5½	3 ³ ⁄4	31⁄8	13

Other standards available, but length and weight may vary Weight is for Class 250 RF

Flange classes in bold are standard

Discharge Capacity 2000 18 10 21 1000 700 Discharge Capacity (Ib/h) 500 300 100 70 50 ⊑ 0.1 0.3 0.5 0.7 1 3 5 7 10 15 30 50 70 100 200 300 75 150 250 Differential Pressure (psi) 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. 5. #1 orifice is standard only on 3/4" size. DO NOT use this product under conditions which exceed maximum differential pressure, CAUTION as condensate backup will occur! DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE. CAUTION 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 Manufacturer 13901 South Lakes Drive, Charlotte, NC 28273-6790 Member a

Tel: 704-597-9070 Fax: 704-583-1610 E-mail: tlv@tlvengineering.com https://www.tlv.com For Technical Service 1-800 "TLV TRAP"

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



SDS A2000-148 Rev. 7/2021 Products for intended use only. Specifications subject to change without notice.

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