

FREE FLOAT. STEAM TRAP

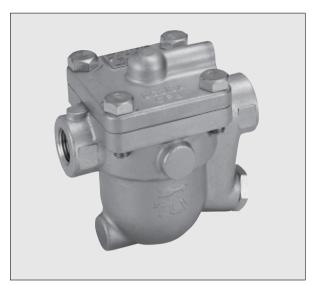
MODEL J3S-X

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Benefits

An all-stainless steel free float steam trap for increased durability with tight shutoff for use on small to medium-size process equipment.

- 1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary, for maximum performance.
- 2. Unique rotational seating design eliminates concentrated wear to provide long life.
- 3. Thermostatic capsule (X-element) with "fail open" feature vents air automatically until close-to-steam temperature.
- 4. Easy, inline access to internal parts simplifies cleaning and lowers maintenance costs.
- 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		J3S-X		
Connection		Screwed	Flanged	
Size (in)		1/2, 3/4, 1	1/2, 3/4, 1	
Orifice No.		2, 5, 10, 14, 21		
Maximum Operating Pressure (psig)	PMO	30, 75, 150, 200, 300		
Maximum Differential Pressure (psi)	ΔPMX	30, 75, 150, 200, 300		
Minimum Operating Pressure (psig)		Vac	uum	
Maximum Operating Temperature (°F)	TMO	42	28	
Maximum Allowable Pressure (psig)	PMA	30	00	
Maximum Allowable Temperature	TMA	42	28	

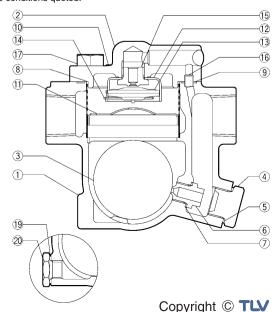
Connections and sizes in bold are standard

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	Motorial	ASTM/AISI*	JIS	
	Description	Material			
1	Body	Cast Stainless Steel	A351 Gr.CF8	_	
2	Cover	Cast Stainless Steel	A351 Gr.CF8		
3F	Float	Stainless Steel	AISI316L	SUS316L	
4	Orifice Plug	Cast Stainless Steel	A351 Gr.CF8	_	
⑤MR	Orifice Plug Gasket	Stainless Steel	AISI316L	SUS316L	
(6)R	Orifice	_	_	_	
7)MR	Orifice Gasket	Stainless Steel	AISI316L	SUS316L	
(8)R	Screen	Stainless Steel	AISI430	SUS430	
9MR	Cover Gasket	Fluorine Resin	PTFE	PTFE	
10	Nameplate	Stainless Steel	AISI304	SUS304	
11)R	Float Cover	Stainless Steel	AISI304	SUS304	
(12)R	X-element Guide	Stainless Steel	AISI304	SUS304	
13R	X-element	Stainless Steel	_	_	
(14)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	Stainless Steel	AISI304	SUS304	
18	Flange**	Cast Stainless Steel	A351 Gr.CF8	_	
19	Drain Plug Gasket***	Stainless Steel	AISI316L	SUS316L	
20	Drain Plug***	Stainless Steel	AISI303	SUS303	

^{*} Equivalent ** Shown on reverse *** Option Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

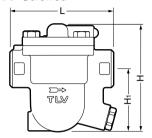


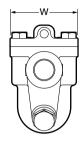


Consulting & Engineering Service

Dimensions

J3S-X Screwed





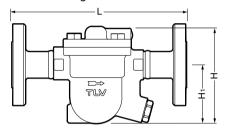
J3S-X Screwed*

(in)

Size	L	Н	H₁	W	Weight (lb)
1/2		4 11/16	3		5.5
3/4	4 3/4		2 1/8	31/8	5.7
1		5	3		6.2

^{*} NPT, other standards available

● J3S-X Flanged



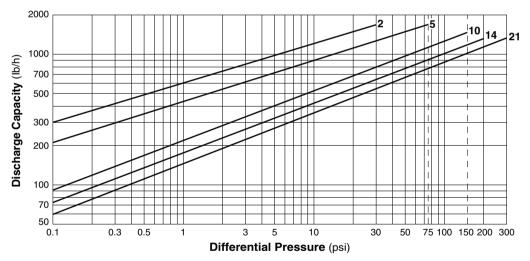
J3S-X Flanged

(in)

Size	L Connects to ASME Class		Н	H ₁	Weight*
	150RF	300RF			(lb)
1/2	7 11/16	7 11/16	4 11/16	3	8.4
3/4	8 7/16	87/16			11
1	91/4	91/4			12

Other standards available, but length and weight may vary

Discharge Capacity



- 1. Line numbers within the graph are 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.



DO NOT use this product 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

TLV. CO., LTD.

Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001 ISO 14001

^{*} Weight is for Class 300 RF