# FREE FLOAT STEAM TRAP MODEL J5S-X STAINLESS STEEL

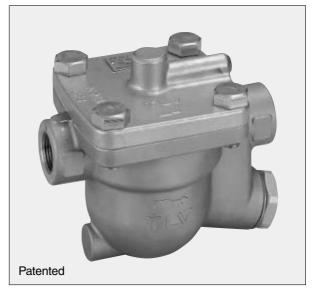
### FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

#### **Features**

TLV

## A reliable and durable steam trap with tight shut-off 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.
- Only one moving part, the free float, prevents concentrated wear and provides long maintenance-free service life.
- 3. Thermostatic capsule (X-element) with "fail open" feature vents air automatically until close-to-steam temperature.
- 4. Built-in screen with large surface area ensures extended trouble-free operation.
- 5. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.



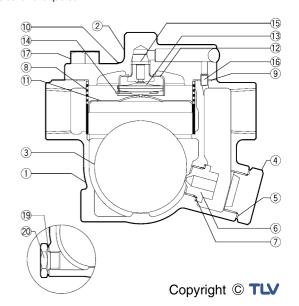
## Specifications

Model		J5S-X		
Connection		Screwed	Flanged	
Size		3⁄4″, 1″, 11⁄4″, 11⁄2″	DN 20, 25	
Orifice No.		2, 5, 10	, 14, 21	
Maximum Operating Pressure (barg)	PMO	2, 5, 10	, 14, 21	
Maximum Differential Pressure (bar)	$\Delta PMX$	2, 5, 10,	, 14, 21	
Maximum Operating Temperature (°C)	ТМО	22	20	
Subcooling of X-element Fill (°C)		up to 6		
Type of X-element		В		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 21 1 bar = 0.1 MPa Maximum Allowable Temperature (°C) TMA: 220

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	DIN*	ASTM/AISI*
1	Body	Cast Stainl. Stl. A351 Gr.CF8	1.4312	
2	Cover	Cast Stainl. Stl. A351 Gr.CF8	1.4312	
3F	Float	Stainless Steel SUS316L	1.4404	AISI316L
				AISISTOL
(4)	Orifice Plug	Cast Stainl. Stl. A351 Gr.CF8	1.4312	
<u>5</u> MR	Orifice Plug Gasket	Stainless Steel SUS316L	1.4404	AISI316L
<u>6</u> R	Orifice		_	
$\bigcirc$ MR	Orifice Gasket	Stainless Steel SUS316L	1.4404	AISI316L
(8)R	Screen	Stainless Steel	1.4016/	AISI430/
0.	inside/outside	SUS430/SUS304	1.4301	AISI304
(9)MR	Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
10	Nameplate	Stainless Steel SUS304	1.4301	AISI304
(1) <sup>R</sup>	Float Cover	Stainless Steel SUS304	1.4301	AISI304
(12)R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
(13 <sup>R</sup>	X-element	Stainless Steel	—	—
(14)R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
(15) <sup>R</sup>	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
16	Connector	Stainless Steel SUS416	1.4005	AISI416
17	Cover Bolt	Stainless Steel SUS304	1.4301	AISI304
18	Flange**	Cast Stainl. Stl. A351 Gr.CF8	1.4312	_
19	Drain Plug Gasket***	Stainless Steel SUS316L	1.4404	AISI316L
20	Drain Plug***	Stainless Steel SUS303	1.4305	AISI303



\* Equivalent materials \*\* Shown overleaf \*\*\* Option

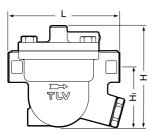
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

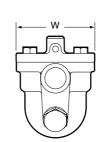
## TLV

## **Consulting & Engineering Service**

## Dimensions

### • J5S-X Screwed

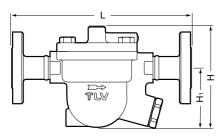




J5S-X Screwed* (mi						
_	Size	L	Н	H1	W	Weight (kg)
	3/4″	155	141	83	108	4.4
	1″	155	141	00		4.3
_	1 <sup>1</sup> ⁄ <sub>4</sub> ″ 1 <sup>1</sup> ⁄ <sub>2</sub> ″	160	174	105		5.8

\* BSP DIN 2999, other standards available

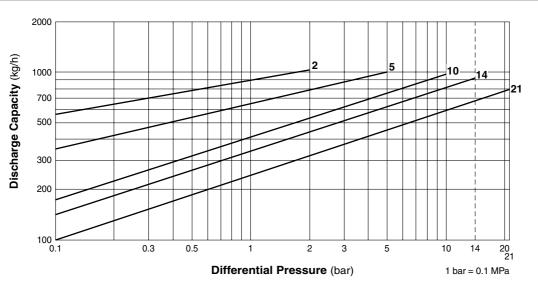
## • J5S-X Flanged



J5S-X Flanged (mm)						
	Size	L ASME Class		н	H1	Weight*
		150RF	300RF		•••	(kg)
	20	250	250	141	83	6.6
_	25	270	270		141	00

\* Weight is for Class 300 RF

## **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 6°C below saturated steam temperature.

4. Recommended safety factor: at least 1.5.

**ION** Do not use traps under conditions that exceed maximum differential pressure, as condensate backup will occur!

Manufacturer

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



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SDS U2000-153 Rev. 6/2009 Specifications subject to change without notice.