

# J5S-X Stainless Steel Free Float Steam Trap

#### **Features**

A reliable and durable steam trap with tight shut-off for use on small to medium-size process equipment.

- Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
- Precision-ground float, constant water seal and three-point seating design ensure a steam tight seal, even under no-load conditions.
- 3. Only one moving part, the free float, prevents concentrated wear and provides long maintenance-free service life.
- Thermostatic capsule (X-element) with "fail open" feature vents air automatically until close- to-steam temperature.
- Built-in screen with large surface area ensures extended troublefree operation.
- Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.

# **Pressure Equipment Directive (PED)**

Classification according to PED 2014/68/EU, fluid group 2

Size Category CE marking

34", 1", 11/4", 11/2" -\* Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed



## **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)	ΔΡΜΧ	2, 5, 10	, 14, 21	
Maximum Operating Temperature (°C)	TMO	22	20	
Subcooling of X-element Fill (°C)		up to 6		
Type of X-element		C6		

<sup>\*</sup> DN 32, 40 and 50 available on request

1 bar = 0.1 MPa

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 21 Maximum Allowable Temperature (°C) TMA: 220

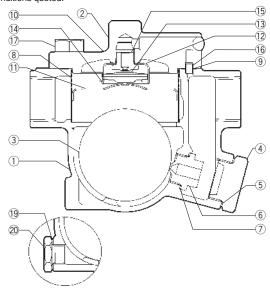
CAUTION

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	DIN*	ASTM/AISI*
1	Body	Cast Stainl. Stl. A351 Gr.CF8	1.4312	_
2	Cover	Cast Stainl. Stl. A351 Gr.CF8	1.4312	_
(3)F	Float	Stainless Steel SUS316L	1.4404	AISI316L
4	Orifice Plug	Cast Stainl. Stl. A351 Gr.CF8	1.4312	_
⑤MR	Orifice Plug Gasket	Stainless Steel SUS316L	1.4404	AISI316L
(6)R	Orifice	_	_	_
7 <sup>MR</sup>	Orifice Gasket	Stainless Steel SUS316L	1.4404	AISI316L
(8)R	Screen inside/outside	Stainless Steel SUS430/SUS304	1.4016/ 1.4301	AISI430/ AISI304
9MR	Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
10	Nameplate	Stainless Steel SUS304	1.4301	AISI304
①R	Float Cover	Stainless Steel SUS304	1.4301	AISI304
(12)R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
(13)R	X-element	Stainless Steel	_	_
(14)R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
(15)R	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

<sup>\*</sup> Equivalent materials \*\* Shown overleaf \*\*\* Option

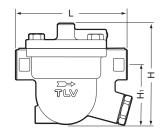
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

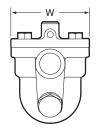


<sup>\*</sup> Manufactured in accordance with sound engineering practice

### **Dimensions**

#### ● J5S-X Screwed

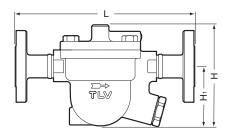




•	J5S-X Screwed* (m					
	Size	L	Н	H₁	W	Weight (kg)
	3/4″	155	141	83	108	4.4
	1″	155	141	63		4.3
	11/4"	100	174	105		5.0
	11/2"	160	174	105		5.8

<sup>\*</sup> BSP DIN 2999, other standards available

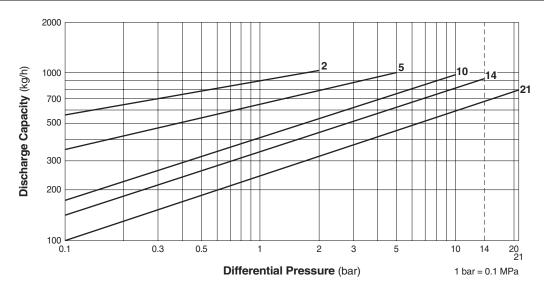
#### ● J5S-X Flanged



J5S-X Flanged (mm						(mm)
	DN*	L ASME Class		Н	H₁	Weight**
		150RF	300RF			(kg)
-	20	250	250	141	83	6.6
	25	270	270			7.2

<sup>\*</sup> DN 32, 40 and 50 available on request

# **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.



DO NOT use this product under conditions that exceed maximum differential pressure, as condensate backup will occur!

<sup>\*\*</sup> Weight is for Class 300 RF