

FREE FLOAT STEAM TRAP

Model: J3S-X (Free Float Steam Trap with thermostatic air venting)

Features

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

1. Self-modulation free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
2. 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 service.
5. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.



Specifications

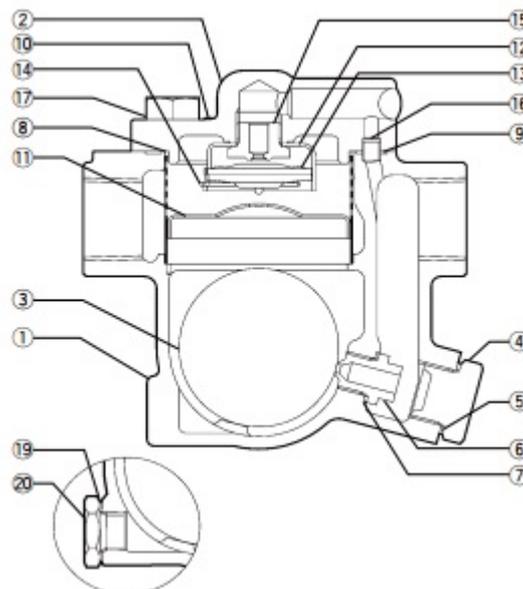
Model	J3S-X	
Connection	Screwed	Flanged
Size (mm)	15, 20, 25	
Orifice No.	2, 5, 10, 14, 21	
Maximum Operating Pressure (MPaG) PMO	0.2, 0.5, 1.0, 1.4, 2.1	
Maximum Differential Pressure (MPa) ΔPMX	0.2, 0.5, 1.0, 1.4, 2.1	
Minimum Operating Pressure (MPaG)	0.01	
Maximum Operating Temperature (°C) TMO	220	
Subcooling of X-element Fill (°C)	Up to 6	
Type of X-element	B	

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): 1Mpa = 10.197 kg/cm²

Maximum Allowable Pressure (MPaG) PMA : 2.1

Maximum Allowable Temperature (°C) TMA : 220

CAUTION : To avoid abnormal operation, accidents of 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	Materials	JIS	ASTM/AISI*
1	Body	Cast Stainless Steel	-	A351 Gr.CF8
2	Cover	Cast Stainless Steel	-	A351 Gr.CF8
3 (F)	Float	Stainless Steel	SUS316L	AISI316L
4	Orifice Plug	Cast Stainless Steel	-	A351 Gr.CF8
5 (MR)	Orifice Plug Gasket	Stainless Steel	SUS316L	AISI316L
6 (R)	Orifice	-	-	-
7 (MR)	Orifice Gasket	Stainless Steel	SUS316L	AISI316L
8 (R)	Screen inside/outside	Stainless Steel	SUS430/304	AISI430/304
9 (MR)	Cover Gasket	Fluorine Resin	PTFE	PTFE
10	Nameplate	Stainless Steel	SUS304	AISI304
11 (R)	Float Cover	Stainless Steel	SUS304	AISI304
12 (R)	X-element Guide	Stainless Steel	SUS304	AISI304
13 (R)	X-element	Stainless Steel	-	-
14 (R)	Spring Clip	Stainless Steel	SUS304	AISI304
15 (R)	Air Vent Valve Seat	Stainless Steel	SUS420F	AISI420F
16	Connector	Stainless Steel	SUS416	AISI416
17	Cover Bolt	Stainless Steel	SUS304	AISI304
18	Flange**	Cast Stainless Steel	-	A351 Gr.CF8
19	Drain Plug Gasket***	Stainless Steel	SUS316L	AISI316L
20	Drain Plug***	Stainless Steel	SUS303	AISI303

*Equivalent **Shown on reverse ***Option

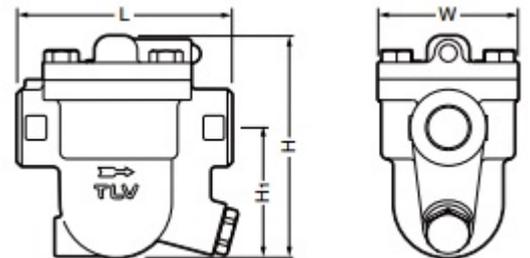
Replacement kits available : (M) maintenance parts, (R) repair parts, (F) float

Dimensions

J3S-X Screwed* (mm)

Size	L	H	H1	W	Weight (kg)
15	120	119	75	80	2.5
20			72.5		2.6
25		126	75		2.8

*Rc (PT), other standards available



J3S-X Flanged (mm)

Size	L		H	H1	Weight* (kg)
	ASME Class				
	150RF	300RF			
15	195	195	119	75	3.8
20	215	215			4.8
25	235	235			5.5

Other standards available, but length and weight may vary

*Weight is for Class 300RF

