



FREE FLOAT® STEAM TRAP

MODEL J3S-X-HC

FREE FLOAT STEAM TRAP WITH THREE-POINT SEATING AND THERMOSTATIC AIR VENTING

Features

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

1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
2. Constant water seal and unique three-point seating ensure perfect steam-tight seal, even under no-load conditions.
3. Thermostatic capsule (X-element) with “fail open” feature vents air automatically at close-to-steam temperature.
4. Built-in screen with large surface ensures trouble free operation.
5. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.



Specifications

Model	J3S-X-HC
Connection	Screwed
Size (mm)	25
Orifice No.	10
Maximum Operating Pressure (MPaG) PMO	1.0
Maximum Differential Pressure (MPa) ΔPMX	1.0
Minimum Operating Pressure (MPaG)	0.01
Maximum Operating Temperature (°C) TMO	220
Subcooling of X-element Fill (°C)	up to 6
Type of Air Vent	C6

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS):

Maximum Allowable Pressure (MPaG) PMA: 2.1

Maximum Allowable Temperature (°C) TMA: 220

1 MPa = 10.197 kg/cm²

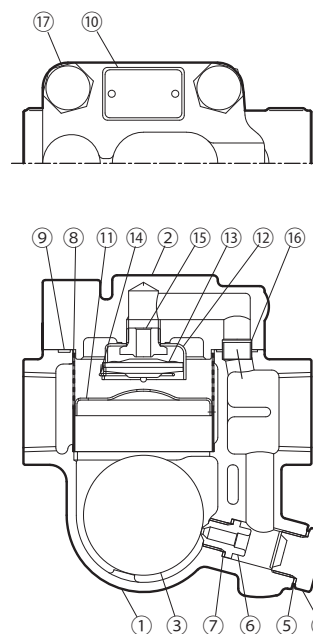


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	JIS	ASTM/AISI*
①	Body	Cast Stainless Steel	—	A351/A351M Gr.CF8
②	Cover	Cast Stainless Steel	—	A351/A351M Gr.CF8M
③ ^F	Float	Stainless Steel	SUS316L	—
④	Orifice Plug	Cast Stainless Steel	—	A351/A351M 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	—
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	—	—	—
⑭ ^R	Spring Clip	Stainless Steel	SUS304	AISI304
⑮ ^R	Air Vent Valve Seat	Stainless Steel	SUS420F	AISI420F
⑯	Connector	Stainless Steel	SUS304	AISI304
⑰	Cover Bolt	Stainless Steel	—	A193/A193M Gr.B8M Cl.2

* Equivalent

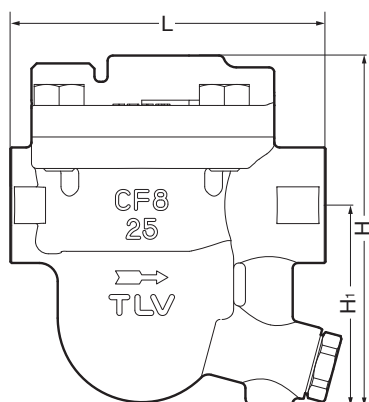
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float



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Dimensions

● J3S-X-HC Screwed



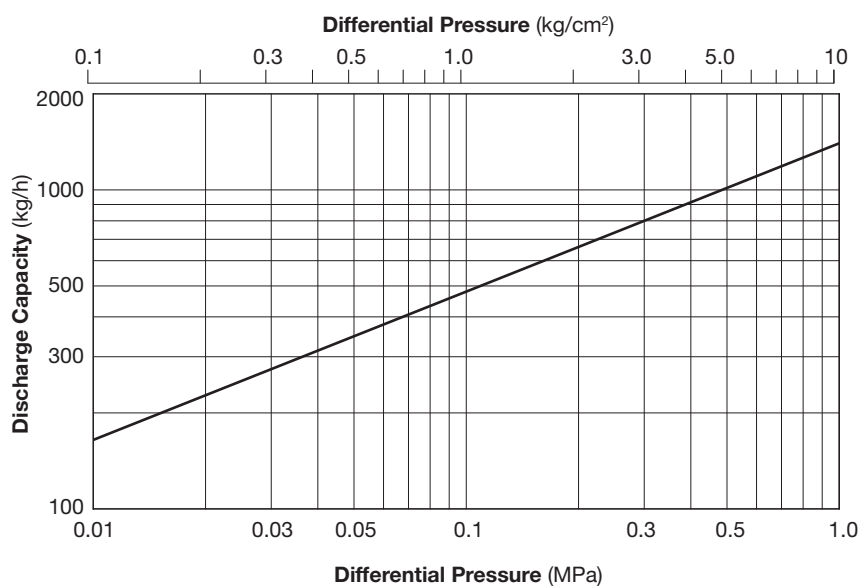
J3S-X-HC Screwed* (mm)

Size	L	H**	H1**	Weight (kg)
25	120	137	80	2.5

* Rc(PT), other standards available

** Approx.

Discharge Capacity



1. Differential pressure is the difference between the inlet and outlet pressure of the trap.
2. Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature.
3. Recommended safety factor: at least 1.5.



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

Manufacturer

TLV CO., LTD.
Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001
ISO 14001

