

FREE FLOAT® STEAM TRAP

MODEL J7.5X

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

A reliable and durable cast iron steam trap with tight shut-off for use on large-size process equipment.

- 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 maintenancefree 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.
- Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.



Specifications

Model	J7.5X
Connection	Flanged
Size (mm)	40, 50, 65, 80
Orifice No.	1, 2, 5, 10, 14, 16
Maximum Operating Pressure (MPaG) PMO	0.1, 0.2, 0.5, 1.0, 1.4, 1.6
Maximum Differential Pressure (MPa) ΔPMX	0.1, 0.2, 0.5, 1.0, 1.4, 1.6
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	C6

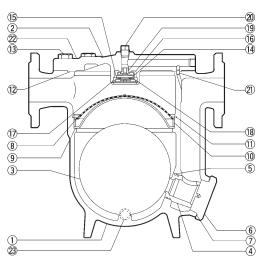
PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 1.6 Maximum Allowable Temperature (°C) TMA: 220

1 MPa = 10.197 kg/cm²

⚠ 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	JIS	ASTM/AISI*	
1	Body	Cast Iron FC250		A126 CI.B	
2	Cover	Cast Iron	FC250	A126 CI.B	
3)F	Float	Stainless Steel	SUS316L	AISI316L	
4 ^R	Orifice	_	_	-	
⑤ ^{MR}	Orifice O-Ring	Ethylene Propylene Rubber	EPR	D2000CA	
6	Orifice Holder Plug	Ductile Cast Iron	FCD450	A536	
7 ^{MR}	Orifice Plug Gasket	Fluorine Resin	PTFE	PTFE	
(8)R	Screen	Stainless Steel	SUS430	AISI430	
9	Screen Holder	Stainless Steel	SUS304	AISI304	
10	Screen Holder Retainer	Stainless Steel	SUS304	AISI304	
11)	Snap Ring	Stainless Steel	SUS304	AISI304	
12 ^{MR}	Cover Gasket	Graphite/Stainless Steel	-/SUS316L	-/AISI316L	
13	Cover Bolt	Carbon Steel	S45C	AISI1045	
(14)R	X-element	Stainless Steel	_	_	
(15)R	Spring Clip	Stainless Steel	SUS304	AISI304	
16)R	X-element Guide	Stainless Steel	SUS304	AISI304	
①7 ^R	X-element Cover	Stainless Steel	SUS304	AISI304	
(18)R	Snap Ring	Stainless Steel	SUS304	AISI304	
19 ^R	Air Vent Valve Seat	Stainless Steel	SUS420F	AISI420F	
20	Plug	Carbon Steel	SS400	A6	
21)	Connector	Stainless Steel	SUS416	AISI416	
22	Nameplate	Stainless Steel	SUS304	AISI304	
(23)	Drain Plug	Carbon Steel	SS400	A6	



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* Equivalen

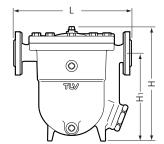
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

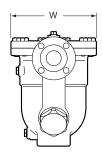


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Dimensions

● J7.5X Flanged

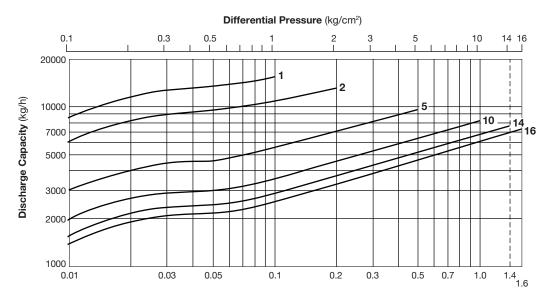




J7.5X Flanged (mm)										
	L			Н	H₁	φW	Weight*			
Size	ASME Class									
	125FF	(150RF)	250RF	(300RF)				(-3)		
40	380	390	392	394	397	307	290	43		
50	392	400	405	406	402			46		
65	401	412	417	418	412			49		
80	426	434	443	444	417			53		

() No ASME standard exists for cast iron; machined to fit steel flanges Class 125 FF can connect to 150 RF, 250 RF can connect to 300 RF Other standards available, but length and weight may vary

Discharge Capacity



- 1. Line numbers within the graph refer to 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!

Manufacturer

TLV CO., LTD.

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

ISO 9001 ISO 14001

^{*} Weight is for Class 250 RF/300 RF