



FREE FLOAT STEAM TRAP

MODEL J7.5X

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

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

1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
2. Only one moving part, the free float, eliminates concentrated valve wear and provides long maintenance-free service life.
3. Thermostatic capsule with "fail open" feature vents air automatically until close-to-steam temperature, for rapid start-up.
4. Hot air during operation can also be vented, allowing increased productivity and even heating.
5. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.
6. Built-in screen with large surface area ensures trouble-free operation.



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, 1.4, 1.57
Maximum Differential Pressure (MPa)	ΔPMX	0.1, 0.2, 0.5, 1, 1.4, 1.57
Minimum Operating Pressure (MPaG)		0.01
Maximum Operating Temperature (°C)		220
Subcooling of X-element Fill (°C)		up to 6
Type of X-element		B

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

Maximum Allowable Pressure (MPaG) PMA: 1.57

Maximum Allowable Temperature (°C) TMA: 220

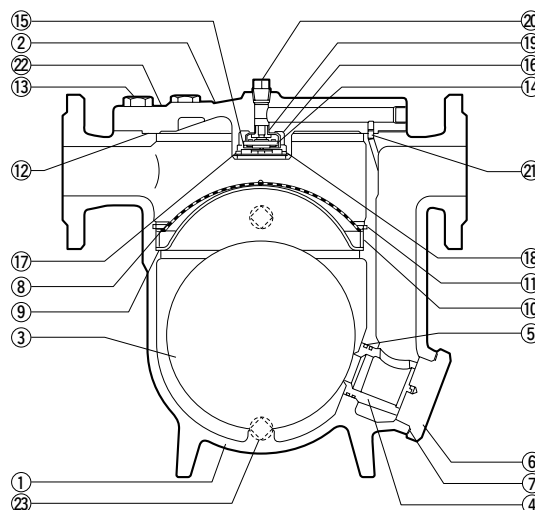
1 MPa = 10.197 kg/cm²



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 Iron	FC250	A126 Cl. B
②	Cover	Cast Iron	FC250	A126 Cl. B
③	Float	Stainless Steel	SUS316L	AISI316L
④	Orifice	Stainless Steel	SCS2A	A217 Gr. CA15
⑤	Orifice O-Ring	Synthetic Rubber	EPR	D2000 CA
⑥	Orifice Holder Plug	Ductile Cast Iron	FCD450	A536 Gr. 65-45-12
⑦	Holder Plug Gasket	Fluorine Resin	PTFE	—
⑧	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	Cover Gasket	Stainl. Stl./Graphite	SUS316L	AISI316L
⑬	Cover Bolt	Carbon Steel	S45C	AISI1045
⑭	X-element	Stainless Steel	—	—
⑮	Spring Clip	Stainless Steel	SUS304	AISI304
⑯	X-element Guide	Stainless Steel	SUS304	AISI304
⑰	X-element Cover	Stainless Steel	SUS304	AISI304
⑱	Snap Ring	Stainless Steel	SUS304	AISI304
⑲	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

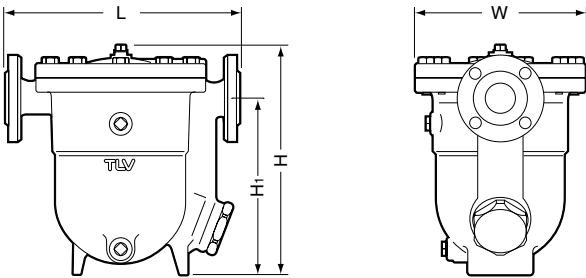
* Equivalent



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Dimensions

● **J7.5X**
Flanged

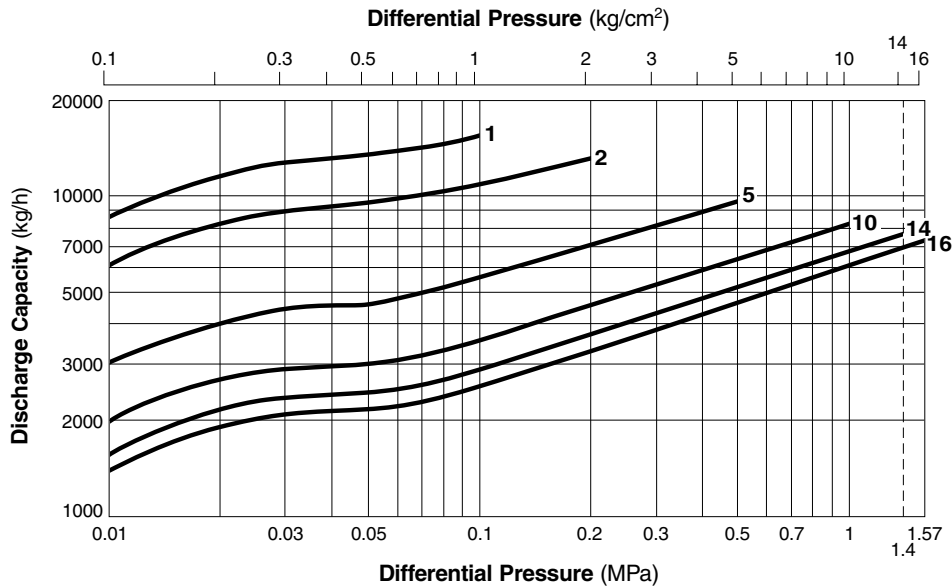


J7.5X Flanged (mm)

Size	Flange (JIS)*	L	Flange (ANSI • JPI)*	L	H	H ₁	φW	Weight (approx. kg)
40	5K	382	150LB	390	397	307	290	42
	10, 16K	390	300LB	394				
	20K	394	—	—				
50	5K	392	150LB	400	402	307	290	45
	10, 16K	400	300LB	406				
	20K	404	—	—				
65	5K	402	150LB	412	412	307	290	48
	10, 16K	410	300LB	418				
	20K	414	—	—				
80	5K	422	150LB	434	417	307	290	52
	10K	430	300LB	444				
	16K	434	—	—				
	20K	438	—	—				

* Other standards available

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 traps under conditions that exceed maximum differential pressure, as condensate backup will occur!

Manufacturer

ISO 9001/ISO 14001

TLV® CO., LTD.
Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

