



FREE FLOAT STEAM TRAP

MODEL J7.2X

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

A reliable and durable cast iron steam trap with tight shut-off for use on medium-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, 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 operation.
5. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.



Patented

Specifications

Model		J7.2X
Connection		Flanged
Size (mm)		40, 50, 80
Orifice No.		0.5, 1, 2, 5, 10, 14, 16
Maximum Operating Pressure (MPaG)	PMO	0.05, 0.1, 0.2, 0.5, 1, 1.4, 1.57
Maximum Differential Pressure (MPa)	ΔPMX	0.05, 0.1, 0.2, 0.5, 1, 1.4, 1.57
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): Maximum Allowable Pressure (MPaG) PMA: 1.57 1 MPa = 10.197 kg/cm²
Maximum Allowable Temperature (°C) TMA: 220



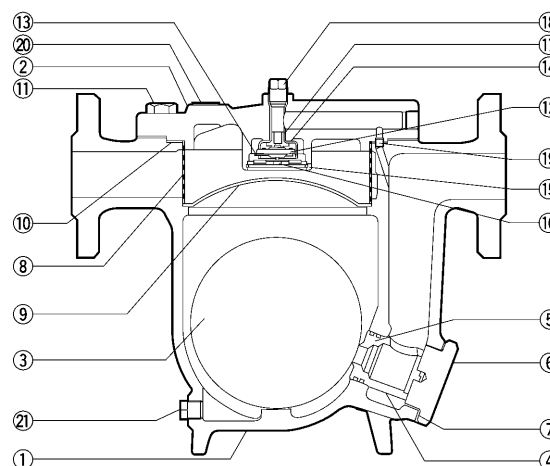
CAUTION

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	JIS	ASTM/AISI*
①	Body	Cast Iron	FCV410	A842 Gr.400
②	Cover	Cast Iron	FCV410	A842 Gr.400
③ ^F	Float	Stainless Steel	SUS316L	AISI316L
④ ^R	Orifice	—	—	—
⑤ ^{MR}	Orifice O-Ring	Ethylene Propylene Rubber	EPR	D2000CA
⑥	Orifice Holder Plug	Cast Iron	FCV410	A842 Gr.400
⑦ ^{MR}	Holder Plug Gasket	Fluorine Resin	PTFE	PTFE
⑧ ^R	Screen	Stainless Steel	SUS430	AISI430
⑨	Screen Holder	Stainless Steel	SUS304	AISI304
⑩ ^{MR}	Cover Gasket	Stainl. St./Graphite	SUS316L	AISI316L
⑪	Cover Bolt	Carbon Steel	S45C	AISI1045
⑫ ^R	X-element	Stainless Steel	—	—
⑬ ^R	Snap Ring	Stainless Steel	SUS304	AISI304
⑭ ^R	X-element Guide	Stainless Steel	SUS304	AISI304
⑮ ^R	X-element Cover	Stainless Steel	SUS304	AISI304
⑯ ^R	Snap Ring	Stainless Steel	SUS304	AISI304
⑰ ^R	Air Vent Valve Seat	Stainless Steel	SUS420F	AISI420F
⑱	Plug	Carbon Steel	SS400	A6
⑲	Connector	Stainless Steel	SUS416	AISI416
⑳	Nameplate	Stainless Steel	SUS304	AISI304
㉑	Drain Plug	Carbon Steel	SS400	A6

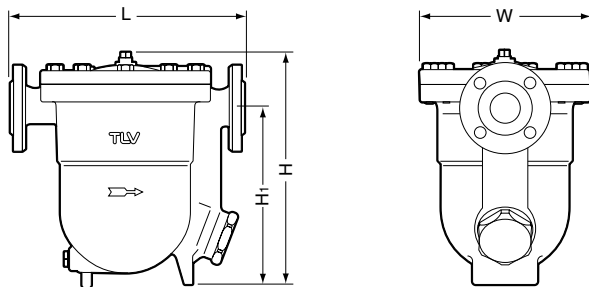
* Equivalent

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



Dimensions

● J7.2X Flanged



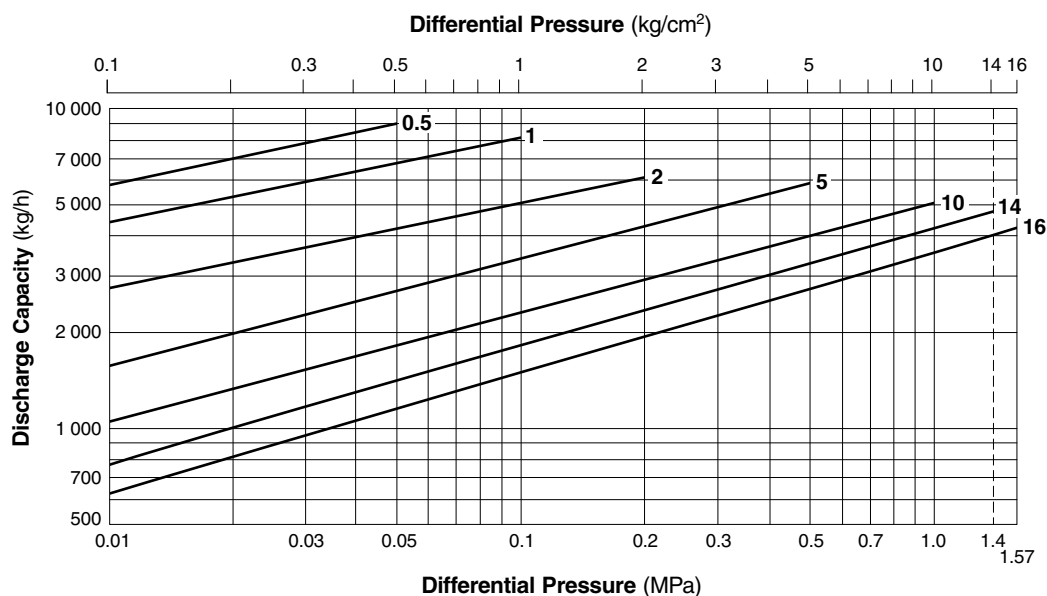
J7.2X Flanged

(mm)

Size	L				H	H ₁	φ W	Weight (kg)
	ASME Class							
	125FF (150RF)	250RF (300RF)	250RF (300RF)	250RF (300RF)				
40	359	370	372	374	330	244	243	33
50	362		375	376	340	249		36
80	379	388	398	398	373	265		41

() 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
 * Weight is for Class 250 RF / 300 RF

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.



CAUTION

DO NOT use traps under conditions which 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

