TLV

FREE FLOAT® STEAM TRAP

MODEL J7X

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.

- 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 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.



Specifications

Model		JS7X	J7X	
Connection		Screwed	Flanged	
Size (mm)		25, 40	20, 25, 32, 40, 50	
Orifice No.		2.5, 5, 10, 14, 16		
Maximum Operating Pressure (MPaG)	PMO	0.25, 0.5, 1.0, 1.4, 1.6		
Maximum Differential Pressure (MPa)	ΔΡΜΧ	0.25, 0.5, 1.0, 1.4, 1.6		
Minimum Operating Pressure (MPaG)		0.0	01	
Maximum Operating Temperature (°C)	TMO	220		
Subcooling of X-element Fill (°C)		up to 6		
Type of X-element		E	3	

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 1.6 1 MPa = 10.197 kg/cm² Maximum Allowable Temperature (°C) TMA: 220



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.

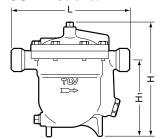
No.	Description	Material	JIS	ASTM/AISI*	
1	Body	Cast Iron	FCV410	A842 Gr.400	
2	Cover	Cast Iron	FCV410	A842 Gr.400	
3F	Float	Stainless Steel	SUS316L	AISI316L	
(4)R	Orifice	_	_	_	
5 ^{MR}	Orifice O-Ring	Ethylene Propylene Rubber	EPR	D2000CA	
6	Orifice Holder Plug	Carbon Steel	S25C	AISI1025	
7 ^{MR}	Orifice 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	Fluorine Resin	PTFE	PTFE	
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	
① ^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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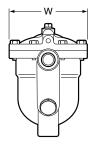


Consulting & Engineering Service

Dimensions

● **JS7X** Screwed

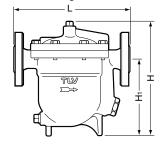


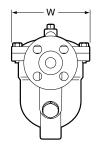


J	S7X	Screwed	*			(mm)
	Size	L	Н	H ₁	W	Weight (kg)
	25	200	276	182	185	13
	40	280	291	190		14

^{*} Rc(PT), other standards available

● J7X Flanged



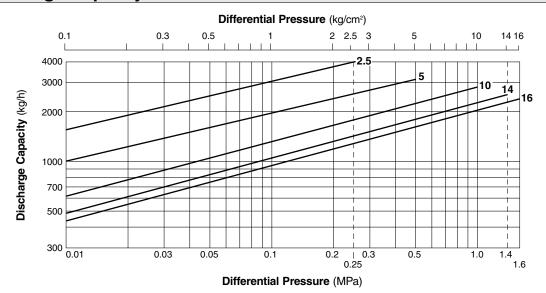


J7X Flanged

Size	L ze ASME Class					H ₁	W	Weight* (kg)
	125FF	(150RF)	250RF	(300RF)				(Ng)
(20)	_	270	_	270	272	180		14
25	258		270	274	276	182		15
32	_		-	270	286	187	185	16
40	270	280	282	284	291	190		18
50	282	290	295	296	301	195		10

) 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 that exceed maximum differential pressure, as condensate backup will occur!

Manufacturer

Kakogawa, Japan



ISO 9001/ISO 14001



is approved by LRQA Ltd. to ISO 9001/14001