

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.

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.



Specifications

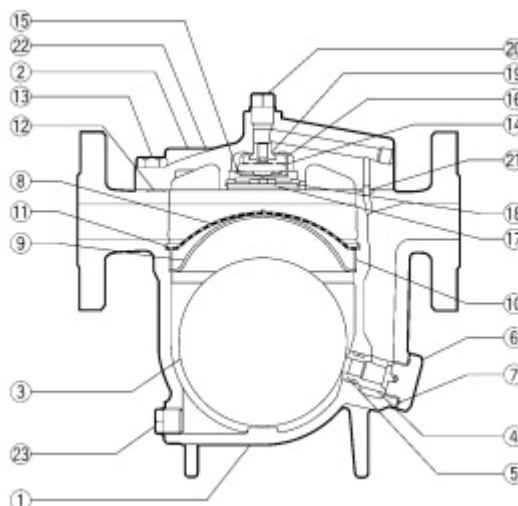
Model	JS7X	J7X
Connection	Screwed	Flanged
Size (mm)	25, 40	20, 25, 32, 40, 50
Orifice No.	2.5, 5, 10, 14, 16	
Maximum Operating Pressure (MPaG) PMO	0.25, 0.5, 1.0, 1.4, 1.6	
Maximum Differential Pressure (MPa) ΔPMX	0.25, 0.5, 1.0, 1.4, 1.6	
Minimum Operating Pressure (MPaG)	0.01	
Maximum Operating Temperature (°C) TMO	220	
Subcooling of X-element Fill (°C)	Up to 6	
Type of X-element	B	

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): 1MPa = 10.197 kg/cm²

Maximum Allowable Pressure (MPaG) PMA: 1.6

Maximum Allowable Temperature (°C) TMA: 220

CAUTION : To avoid abnormal operation, accidents of 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	Materials	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	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
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

*Equivalent

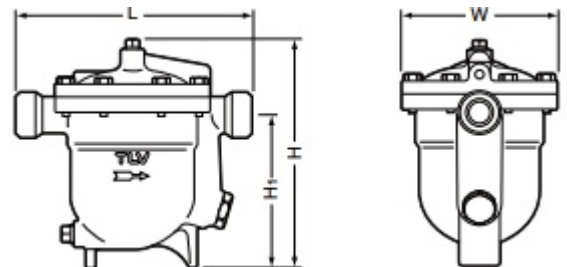
Replacement Kits available : (M) maintenance parts, (R) repair parts, (F) float

Dimensions

JS7X Screwed* (mm)

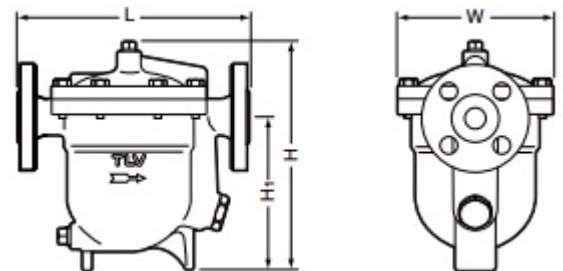
Size	L	H	H1	W	Weight (kg)
25	280	276	182	185	13
40		291	190		14

*Rc (PT), other standards available



J7X Flanged (mm)

Size	L				H	H1	W	Weight (kg)
	ASME Class							
	125FF	(150RF	250RF	(300RF				
20	-	270	-	270	272	180	185	14
25	258		270	274	276	182		15
32	-	280	-	270	286	187		16
40	270		282	284	291	190		18
50	282	290	295	296	301	195		



() No ASME standard exists for cast iron; machined to fit steel flanges;

Class 125FF can connect to 150RF, 250RF can connect to 300RF

Other standards available, but length and weight may vary

*Weight is for Class 250RF / 300RF