



FREE FLOAT STEAM TRAP

MODEL J7X CAST IRON

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

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

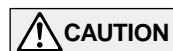
1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
2. Only one moving part, the free float, eliminates concentrated valve wear and provides long maintenance-free service life.
3. Thermostatic capsule with "fail open" feature vents air automatically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



Specifications

Model	JS7X	J7X
Connection	Screwed	Flanged
Size	1", 1½"	DN 20, 25, 32, 40, 50
Orifice No.		2.5, 5, 10, 13
Maximum Operating Pressure (barg) PMO		2.5, 5, 10, 13
Maximum Differential Pressure (bar) ΔPMX		2.5, 5, 10, 13
Maximum Operating Temperature (°C) TMO		200
Subcooling of X-element Fill (°C)		up to 6
Type of X-element		B

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 13 1 bar = 0.1 MPa
Maximum Allowable Temperature (°C) TMA: 200

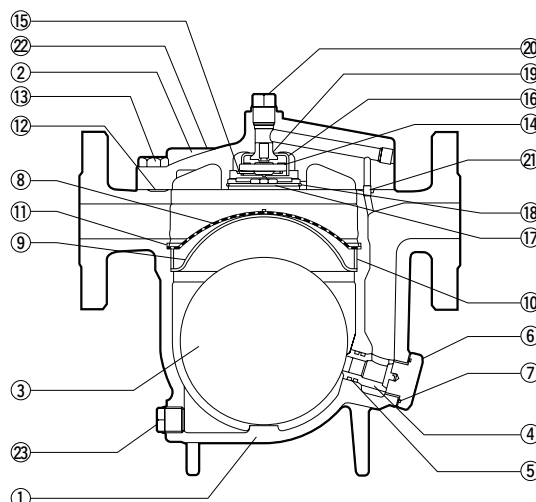


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material*	DIN	ASTM/AISI
①	Body	Cast Iron GG25	0.6025	A126 Cl. B
②	Cover	Cast Iron GG25	0.6025	A126 Cl. B
③ ^F	Float	Stainless Steel SUS316L	1.4404	AISI316L
④ ^R	Orifice	Stainless Steel SUS420F	1.4028	AISI420F
⑤ ^{MR}	Orifice O-Ring	Synthetic Rubber EPR	—	D2000 CA
⑥	Orifice Holder Plug	Carbon Steel S25C	1.1158	AISI1025
⑦	Orifice Plug Gasket	Fluorine Resin PTFE	—	—
⑧ ^R	Screen	Stainless Steel SUS430	1.4016	AISI430
⑨	Screen Holder	Stainless Steel SUS304	1.4301	AISI304
⑩	Screen Holder Retainer	Stainless Steel SUS304	1.4301	AISI304
⑪	Snap Ring	Stainless Steel SUS304	1.4301	AISI304
⑫ ^{MR}	Cover Gasket	Fluorine Resin PTFE	—	—
⑬	Cover Bolt	Carbon Steel S45C	1.0503	AISI1045
⑭ ^R	X-element	Stainless Steel	—	—
⑮ ^R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
⑯ ^R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
⑰ ^R	X-element Cover	Stainless Steel SUS304	1.4301	AISI304
⑱ ^R	Snap Ring	Stainless Steel SUS304	1.4301	AISI304
⑲ ^R	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
⑳	Plug	Carbon Steel SS400	1.0037	A6
㉑	Connector	Stainless Steel SUS416	1.4005	AISI416
㉒	Nameplate	Stainless Steel SUS304	1.4301	AISI3021
㉓	Drain Plug	Carbon Steel SS400	1.0037	A6

* Equivalent materials

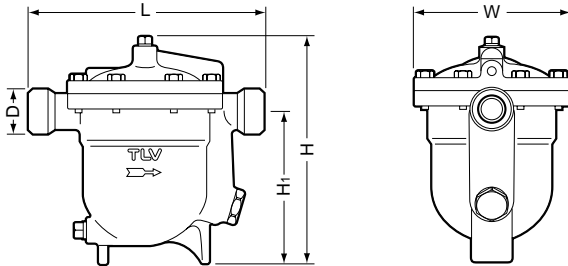
Replacement Kits available: (M) maintenance parts, (R) repair parts, (F) float



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Dimensions

● **JS7X**
Screwed

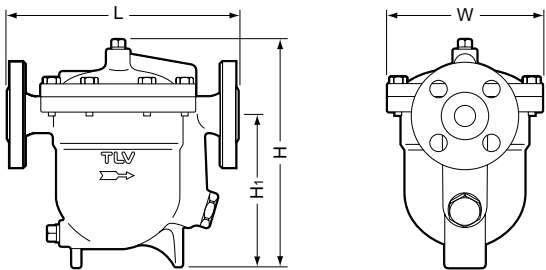


JS7X Screwed* (mm)

Size	L	H	H ₁	W	φD	Weight (kg)
1"	280	276	182	185	50	13
1½"		291	190		70	14

* BSP DIN 2999, other standards available

● **J7X**
Flanged

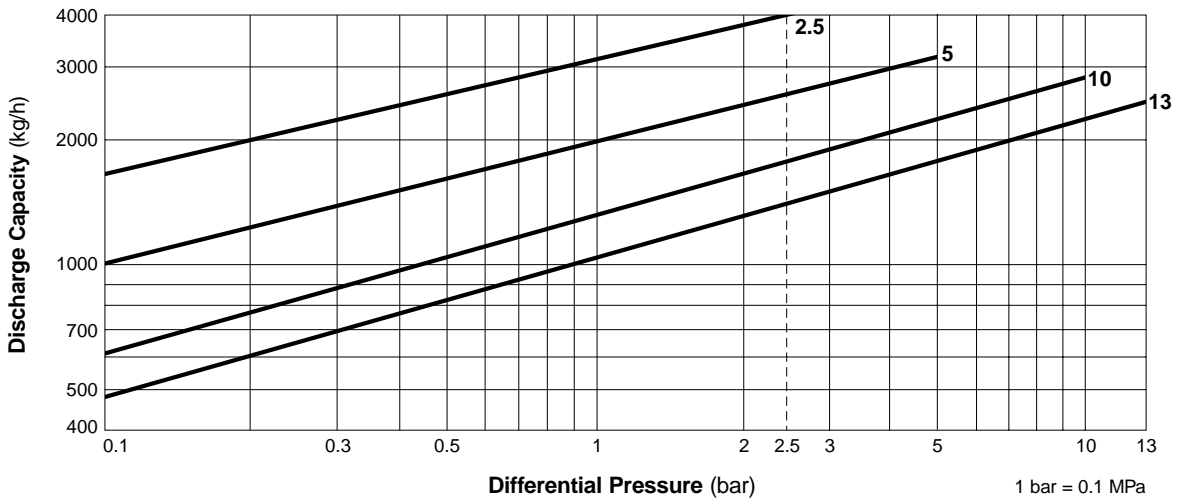


J7X Flanged* (mm)

DN	L	H	H ₁	W	Weight (kg)
20	266	272	180	185	14
25		276	182		15
32		286	187		16
40	276	291	190		17
50	290	301	195		18

* DIN 2501 PN 10/16, except DIN length, 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

