

FREE FLOAT STEAM TRAP

MODEL J5X DUCTILE CAST IRON CAST IRON

Maximum Allowable Temperature (°C) TMA: 200

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

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



Specifications

Model		J5X	JF5X
Connection		Screwed	Flanged*
Size		3/4", 1", 11/4", 11/2"	DN 20, 25, 32, 40, 50
Orifice No.		2, 5, 8,	, 10, 13
Maximum Operating Pressure (barg)	PMO	2, 5, 8,	, 10, 13
Maximum Differential Pressure (bar)	ΔΡΜΧ	2, 5, 8,	, 10, 13
Maximum Operating Temperature (°C)	TMO	20	00
Subcooling of X-element Fill (°C)		up	to 6
Type of X-element		E	3

* JF5X DN20 and DN25 have screwed-in flanges
PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 13

1 bar = 0.1 MPa

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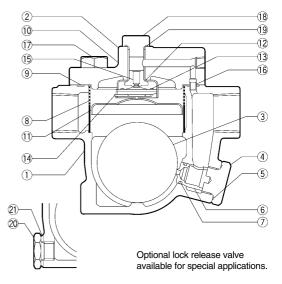
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	DIN*	ASTM/AISI*
1	Body J5X, JF5X DN20, 25	Ductile Cast Iron GGG40.3	0.7043	A395
	JF5X DN32, 40, 50	Cast Iron GG-25	0.6025	A126 Cl.B
2	Cover	Ductile Cast Iron GGG40.3	0.7043	A395
3)F	Float	Stainless Steel SUS316L	1.4404	AISI316L
4	Orifice Holder Plug	Carbon Steel S25C	1.1158	AISI1025
(5)MR	Orifice Plug Gasket	Fluorine Resin PTFE	PTFE	PTFE
6)R	Orifice		_	_
7)MR	Orifice O-Ring	Synthetic Rubber EPR	EPR	D2000CA
8R	Screen inside/outside	Stainless Steel SUS430/304	1.4016/1.4301	AISI430/304
9MR	Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
10	Nameplate	Stainless Steel SUS304	1.4301	AISI304
①R	Float Cover	Stainless Steel SUS304	1.4301	AISI304
12R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
(13)R	X-element	Stainless Steel	_	_
(14)R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
(15)R	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
16	Connector	Stainless Steel SUS416	1.4005	AISI416
17)	Cover Bolt	Carbon Steel S45C	1.0503	AISI1045
18	Plug	Carbon Steel S25C	1.1158	AISI1025
19MR	Plug Gasket	Fluorine Resin PTFE	PTFE	PTFE
20	Drain Plug**	Carbon Steel S25C	1.1158	AISI1025
21)	Drain Plug Gasket**	Soft Iron SUYP	1.1121	AISI1010
22	Flange (JF5X DN20, 25)***	Carbon Steel S25C	1.1158	AISI1025
23	Pipe (JF5X DN20, 25)***	Carbon Steel STPG370	1.0308	A53 Type S Gr.A

Flange (JF5X DN20, 25)*** Carbon Steel S25C 1.1158 AISI
Pipe (JF5X DN20, 25)*** Carbon Steel STPG370 1.0308 A53

* Equivalent materials ** Option *** Shown on reverse

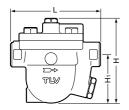
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float



Consulting & Engineering Service

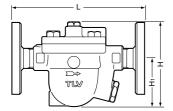
Dimensions

● **J5X** Screwed



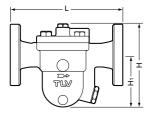


● **JF5X** Flanged DN 20, 25 (Screwed-in flange)





● **JF5X** Flanged DN 32, 40, 50





J5X Screwed*

	oiowoa		(11111)		
Size	L	Н	H ₁	W	Weight (kg)
3/4″	155	149	84	108	4.4
1″					4.3
11/4″	160	182	106		5.8
11/2"		102			5.6

^{*} BSP DIN 2999, other standards available

JF5X	Flanged				(mm)
DN	L DIN 2501 PN10/16	Н	H ₁	W	Weight (kg)
20	250	149	84	108	6.3
25		149			6.9

Other standards available, but length and weight may vary

JF5X Flanged

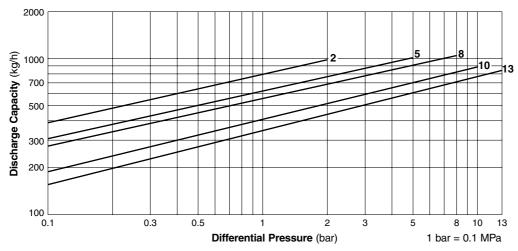
(mm)

(mm)

						()		
_	DN	L DIN 2501 PN10/16	Н	H ₁	W	Weight (kg)		
	32	241	182	113		9.5		
	40	256		116	108	10		
	50	265	196	119		11		

Other standards available, but length and weight may vary

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





