

FREE FLOAT STEAM TRAP

MODEL J5X DUCTILE CAST IRON CAST IRON

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

A reliable and durable ductile cast iron or cast iron steam trap with tight shut-off for use on small to medium-size process equipment.

- 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.
- Thermostatic capsule (X-element) with "fail open" feature vents air automatically until close-to-steam temperature.
- Built-in screen with large surface area ensures trouble-free operation.
- Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.

Pressure Equipment Directive (PED)

Classification according to PED 2014/68/EU, fluid group 2

Size | Category | CE marking

DN 20 to DN 50 | —* | Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed



Specifications

Model		J5X	JF5X
Connection		Screwed	Flanged*
Size		34", 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		C	6

(10)

1 bar = 0.1 MPa

18 19

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 13
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 J5X, JF5X DN 20, 25	Ductile Cast Iron GGG40.3	0.7043	A395
	JF5X DN 32, 40, 50	Cast Iron GG-25	0.6025	A126 Cl.B
2	Cover	Ductile Cast Iron GGG40.3	0.7043	A395
3F	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
8 R	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
(1)R	Float Cover	Stainless Steel SUS304	1.4301	AISI304
(12)R	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 DN 20, 25)***		1.1158	AISI1025
23	Pipe (JF5X DN 20, 25)***	Carbon Steel STPG370	1.0308	A53 Type S Gr.A

Optional lock release valve LR5 available for special applications.

^{*} Manufactured in accordance with sound engineering practice

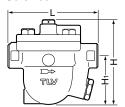
^{*} JF5X DN 20 and DN 25 have screwed-in flanges

^{*} Equivalent materials ** Option *** Shown on reverse Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

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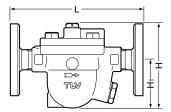
Dimensions

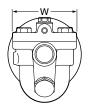
● J5X Screwed



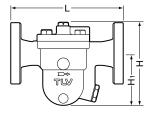


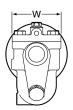
● **JF5X** Flanged DN 20, 25 (Screwed-in flange)





● **JF5X** Flanged DN 32, 40, 50





JOX S		(mm)			
Size	L	Н	H ₁	W	Weight (kg)
3/4"	155	149	84		4.4
1″				108	4.3
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106

5.8

* BSP DIN 2999.	other	standards	available
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11/4"

11/2"

JF5X	Flanged				(mm)
DN	L DIN 2501	Н	H ₁	W	Weight
DN		П	П	VV	(kg)
	PN10/16				
20	250	149	84	108	6.3
25					6.0

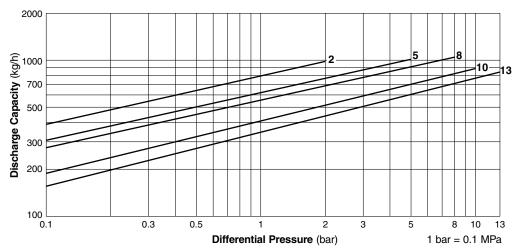
Other standards available, but length and weight may vary

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JF5X	Flanged				(mm)
DN	L DIN 2501 PN10/16	Н	H ₁	w	Weight (kg)
32	241	182 196	113		9.5
40	256		116	108	10
50	265		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 this product under conditions that exceed maximum differential pressure, as condensate backup will occur!

Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

Manufacturer

