FREE FLOAT STEAM TRAP

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

TLV

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.
- 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

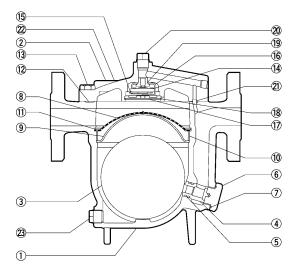
Model	JS7X	J7X	
Connection	Screwed	Flanged	
Size	1″, 1½″ DN 20, 25, 32, 4		
Orifice No.	2.5, 5, 10, 13		
Maximum Operating Pressure (barg) PMO	2.5, 5, 10, 13		
Maximum Differential Pressure (bar) ΔPMX	2.5, 5, 10, 13		
Maximum Operating Temperature (°C) TMO	200		
Subcooling of X-element Fill (°C)	up to 6		
Type of X-element	В		

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

CAUTION 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 FCV410	0.6025	A842 Gr.400
2	Cover	Cast Iron FCV410	0.6025	A842 Gr.400
3F	Float	Stainless Steel SUS316L	1.4404	AISI316L
(4) ^R	Orifice	—	—	_
$(5)^{MR}$	Orifice O-Ring	Ethylene Propylene Rubber	EPR	D2000CA
6	Orifice Holder Plug	Carbon Steel S25C	1.1158	AISI1025
\bigcirc MR	Orifice Plug Gasket	Fluorine Resin PTFE	PTFE	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	PTFE	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	AISI304
23	Drain Plug	Carbon Steel SS400	1.0037	A6

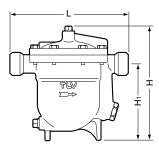


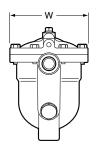
* Equivalent materials Replacement Kits available: (M) maintenance parts, (R) repair parts, (F) float

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Dimensions

• JS7X Screwed

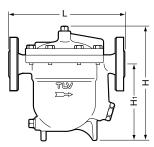


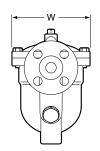


JS7X	Screwed	J *			(mm)
Size	L	н	Hı	W	Weight (kg)
1″	000	276 182	105	13	
1 ½″	280	291	190	185	14

* BSP DIN 2999, other standards available

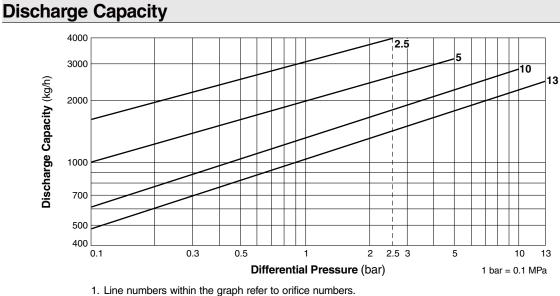
• J7X Flanged





J/X F	langed				(mm)
DN	L DIN 2501 PN10/16	Н	H₁	w	Weight (kg)
20		272	180		14
25	266	276	182		15
32		286	187	185	16
40	276	291	190		17
50	290	301	195		18
Other standards available, but length and weight may yary					

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2. Differential pressure is the difference between the inlet and outlet pressure of the trap.

Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature.
Recommended safety factor: at least 1.5.



DO NOT use traps under conditions that exceed maximum differential pressure, as condensate backup will occur!

Manufacturer

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



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