



SJ5FX

Ductile Iron Free Float Steam Trap

Features

Reliable and durable steam trap with tight shut-off for use on small to medium process equipment. Models for horizontal or vertical piping installation.

1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
2. Precision-ground float, constant water seal and three-point seating design ensure a steam-tight seal, even under no-load conditions.
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.

Pressure Equipment Directive (PED)

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

Size	Category	CE Marking
DN 20, DN 25	—*	Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

* Manufactured in accordance with sound engineering practice



Specifications

Model	SJ5FNX	SJ5FVX
Installation	Horizontal	Vertical
Connection	Flanged	
Size	DN 20, 25	
Orifice No.	2, 5, 9, 14, 22	
Maximum Operating Pressure (barg) PMO	2, 5, 9, 14, 22	
Maximum Differential Pressure (bar) ΔPMX	2, 5, 9, 14, 22	
Maximum Operating Temperature (°C) TMO	220	
Subcooling of X-element Fill (°C)	up to 6	
Type of X-element	C6	

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 22
Maximum Allowable Temperature (°C) TMA: 220
1 bar = 0.1 MPa

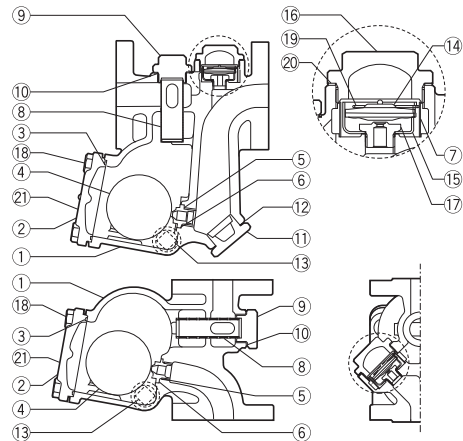


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range.
Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	DIN*	ASTM/AISI*
①	Body	Ductile Cast Iron GGG40.3	0.7043	A395
②	Cover	Ductile Cast Iron GGG40.3	0.7043	A395
③ ^{MR}	Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
④ ^F	Float	Stainless Steel SUS316L	1.4404	AISI316L
⑤ ^R	Orifice	—	—	—
⑥ ^{MR}	Orifice Gasket	Fluorine Resin PTFE	PTFE	PTFE
⑦ ^R	Air Vent Screen	Stainless Steel SUS304	1.4301	AISI304
⑧ ^R	Main Screen	Stainless Steel SUS430	1.4016	AISI430
⑨	Screen Holder	SJ5FNX Cast Stainless Steel A351 Gr.CF8	1.4312	—
		SJ5FVX Cast Stainless Steel A743 Gr.CA40	1.4027	—
⑩ ^{MR}	Screen Holder Gasket	Soft Iron SUYP	1.1121	AISI1010
⑪	Orifice Plug (SJ5FNX)	Cast Stainless Steel A351 Gr.CF8	1.4312	—
⑫ ^{MR}	Orifice Plug Gasket (SJ5FNX)	Soft Iron SUYP	1.1121	AISI1010
⑬	Drain Plug	Carbon Steel SS400	1.0037	A6
⑭ ^R	X-element	Stainless Steel	—	—
⑮ ^R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
⑯	X-element Cover	Cast Stainless Steel A351 Gr.CF8	1.4312	—
⑰ ^R	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
⑱	Cover Bolt	Carbon Steel S45C	1.0503	AISI1045
⑲ ^R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
⑳ ^{MR}	Element Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
㉑	Nameplate	Stainless Steel SUS304	1.4301	AISI304

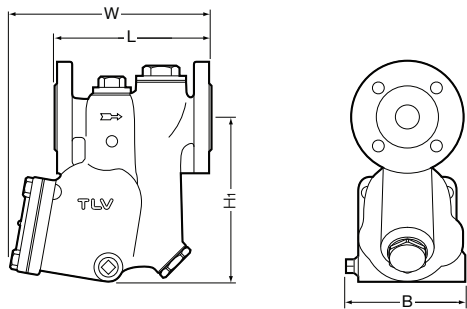
* Equivalent materials

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



Dimensions

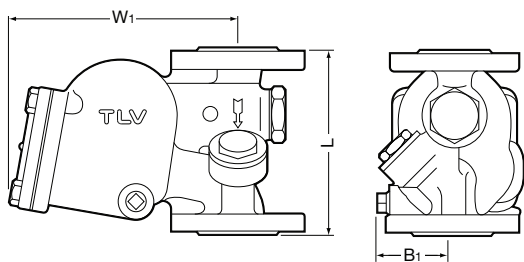
● SJ5FNX Flanged



SJ5FNX Flanged (mm)

DN	L	H ₁	W	B	Weight (kg)
	DIN EN 1092-2				
	PN25/40				
20	150	170	196	115	8.0
25	160		203		8.4

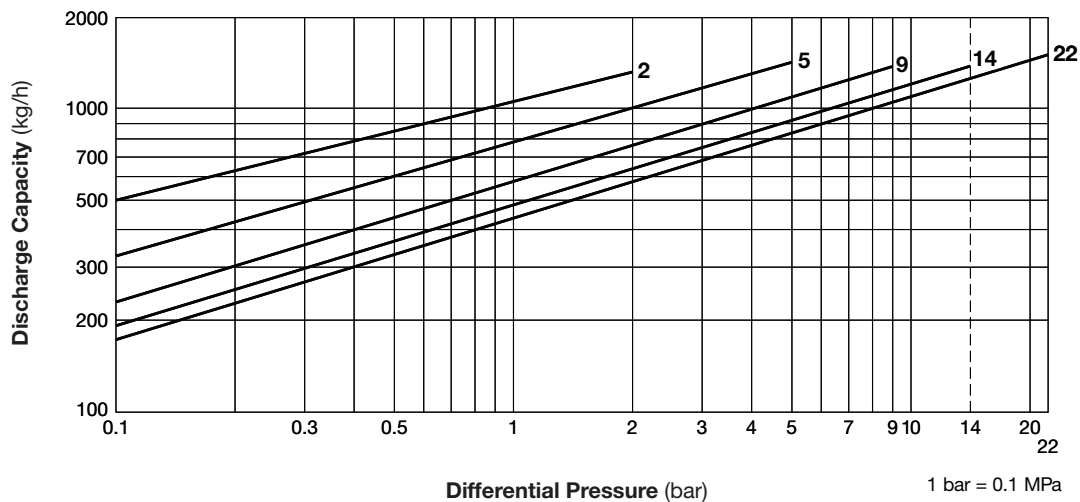
● SJ5FVX Flanged



SJ5FVX Flanged (mm)

DN	L	W ₁	B ₁	Weight (kg)
	DIN EN 1092-2			
	PN25/40			
20	150	175	70	7.3
25	160			7.8

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!