

SJ7FX Ductile Iron Free Float Steam Trap

Features

Reliable and durable steam trap with tight shut-off for use on medium-size 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.
- Thermostatic capsule (X-element) with "fail open" feature vents air automatically until close-to-steam temperature.
- 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 40, DN 50	I	with CE marking and Declaration of Conformity



Specifications

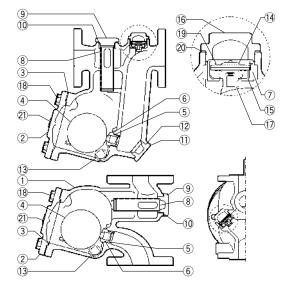
Model		SJ7FNX	SJ7FVX
Installation		Horizontal	Vertical
Connection		Flan	ged
Size		DN 40, 50	
Orifice No.		2, 5, 9,	14, 22
Maximum Operating Pressure (barg)	PMO	2, 5, 9,	14, 22
Maximum Differential Pressure (bar)	ΔΡΜΧ	2, 5, 9,	14, 22
Maximum Operating Temperature (°C)	TMO	22	20
Subcooling of X-element Fill (°C)		up t	io 6
Type of X-element		С	6

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



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 _{MB}	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	X-element Screen	Stainless Steel SUS304	1.4301	AISI304
(8)R	Screen	Stainless Steel SUS430	1.4016	AISI430
9	Screen Holder	Cast Stainless Steel A351 Gr.CF8	1.4312	—
10 ^{MR}	Screen Holder Gasket	Soft Iron SUYP	1.1121	AISI1010
1	Orifice Plug (SJ7FNX)	Cast Stainless Steel A351 Gr.CF8	1.4312	—
(12) ^{MR}	Orifice Plug Gasket (SJ7FNX)	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
(19R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
20 ^{MR}	X-element Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
21	Nameplate	Stainless Steel SUS304	1.4301	AISI304



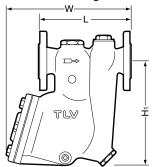
* Equivalent materials

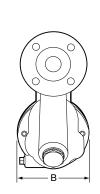
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

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Dimensions

• SJ7FNX Flanged





SJ7FNX Flanged (mm) L Weight DN DIN 2501 Ηı W В (kg) PN25/40 40 26 230 312 346 205 50 28

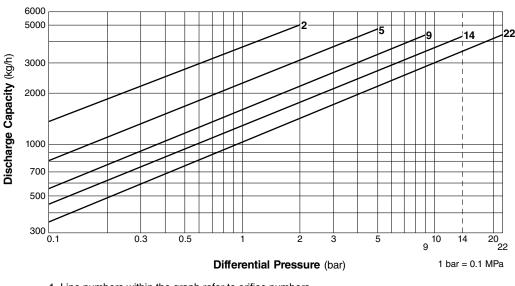
SJ7FVX Flanged

•	SJ7FVX Flanged				
	← W1►				
	TLV				



JJ/FVA Flanged				(mm)
DN	L		В	Weight
	DIN 2501	W1		(kg)
	PN25/40			(Ng)
40	230	0 304	205	22
50	230			23

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.

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



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

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