

# FREE FLOAT STEAM TRAP

MODEL SJ6FX DUCTILE CAST IRON

#### FREE FLOAT STEAM TRAP WITH THREE-POINT SEATING AND THERMOSTATIC AIR VENTING

#### **Features**

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

- 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.
- 4. Built-in screen with large surface area ensures extended trouble-free
- Easy, inline access to internal parts simplifies cleaning and reduces



## **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	SJ6FNX	SJ6FVX
Installation	Horizontal	Vertical
Connection	Flan	iged
Size	DN 4	0, 50
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	22	20
Subcooling of X-element Fill (°C)	up t	to 6
Type of X-element	C	6

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 <sup>MR</sup>	Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
(4)F	Float	Stainless Steel SUS316L	1.4404	AISI316L
(5)R	Orifice	_	_	_
6 <sup>MR</sup>	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 Stainl. Steel A351 Gr.CF8	1.4312	_
10 <sup>MR</sup>	Screen Holder Gasket	Soft Iron SUYP	1.1121	AISI1010
11)	Orifice Plug (SJ6FNX)	Cast Stainl. Steel A351 Gr.CF8	1.4312	_
12MR	Orifice Plug Gasket (SJ6FNX)	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 Stainl. 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
20MR	X-element Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
21)	Nameplate	Stainless Steel SUS304	1.4301	AISI304

<sup>(18)</sup> (12) 1 (18) Copyright © TLV

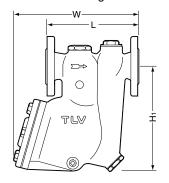
Replacement kits available: (M) maintenance parts. (R) repair parts. (F) float

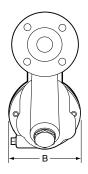


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## **Dimensions**

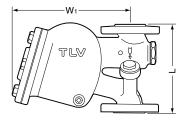
#### ● SJ6FNX Flanged





SJ6FNX Flanged (mm)					
DN	L	H <sub>1</sub>	w	В	Weight (kg)
	DIN 2501				
	PN25/40				
40	230	268	311	176	22
50					24

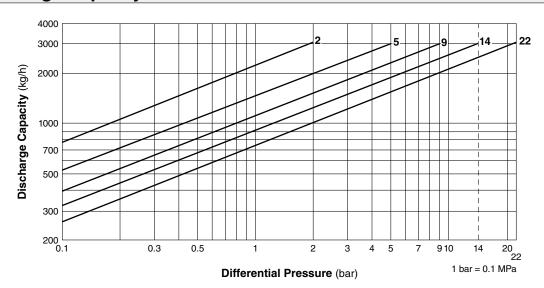
### ● SJ6FVX Flanged





SJ6FVX Flanged (mm)						
	DN	L DIN 2501 PN25/40	<b>W</b> 1	В	Weight (kg)	
	40	000	263	176	17	
50	50	230			18	

# **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!

Manufacturer

TLV, CO., LTD.

Kakogawa, Japan
is approved by LROA Ltd. to £0 9001/14001

