

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 piping installation.

- Self-modulating free float provides continuous, smooth, low-velocity condensate discharge as process loads vary.
- 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.
- Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.



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	Flanged		
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) ΔPMX	2, 5, 9, 14, 22		
Maximum Operating Temperature (°C) TMO	220		
Subcooling of X-element Fill (°C)	up t	to 6	
Type of X-element	С	6	

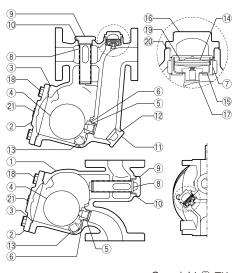
PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 22

Maximum Allowable Pressure (barg) PMA: 22 Maximum Allowable Temperature (°C) TMA: 220 Minimum Allowable Temperature (°C): 0 1 bar = 0.1 MPa

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	Ductile Cast Iron GGG40.3/EN 5.3103 (EN-GJS-400-18-LT)	0.7043	A395 Gr.60-40-18
2	Cover	Ductile Cast Iron GGG40.3/EN 5.3103 (EN-GJS-400-18-LT)	0.7043	A395 Gr.60-40-18
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
⑦R	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/A351M Gr.CF8	1.4312	_
10 ^{MR}	Screen Holder Gasket	Soft Iron SUYP	1.1121	AISI1010
11)	Orifice Plug (SJ6FNX)	Cast Stainl. Steel A351/A351M 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/A351M 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



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

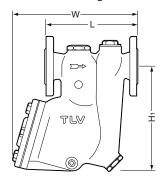
^{*} Equivalent materials

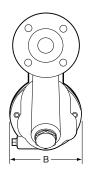


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Dimensions

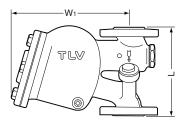
● SJ6FNX Flanged





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

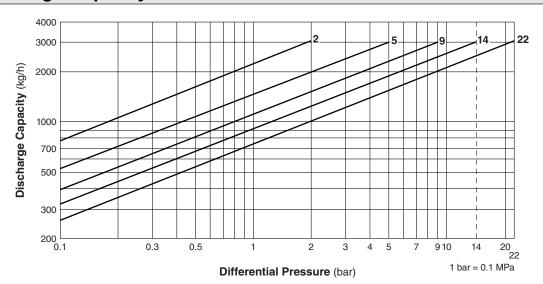
SJ6FVX Flanged





SJ6FVX Flanged (mm)				
DN	L	W1	В	Weight (kg)
	DIN 2501			
	PN25/40			
40	230	263	176	17
50				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.



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

Manufacturer Kakogawa, Japan pproved by LRQA Ltd. to ISO 9001/14001

Specifications subject to change without notice.

