

FREE FLOAT® STEAM TRAP

MODEL SJ5FX DUCTILE CAST IRON

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

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.

- 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.
- Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.



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	1O 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	В		

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

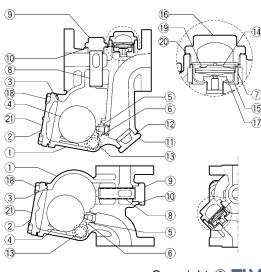
Maximum Allowable Temperature (°C) TMA: 220

1 bar = 0.1 MPa

ACAUTION

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	_
9		SJ5FVX	Cast Stainless Steel SCS2A	1.4027	A743 Gr.CA40
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	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



Copyright © TLV

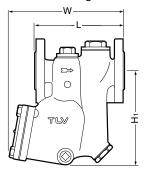
^{*}Equivalent materials



Consulting & Engineering Service

Dimensions

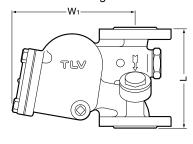
● SJ5FNX Flanged

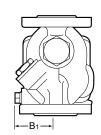




SJ5FNX Flanged (mm)						
•	DN	L DIN 2501 PN25/40	H ₁	W	В	Weight (kg)
•	20	150	170	196	115	8.0
25	25	160		203		8.4

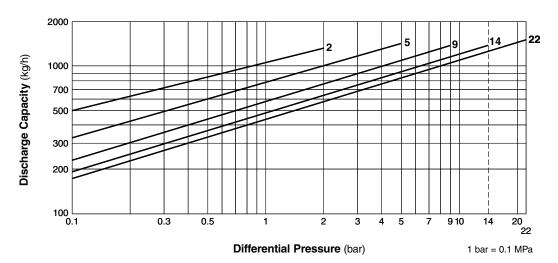
● SJ5FVX Flanged





SJ5FVX Flanged (mm)				
DN	L DIN 2501 PN25/40	W ₁	B ₁	Weight (kg)
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 traps under conditions which exceed maximum differential pressure, as condensate backup will occur!

Manufacturer

Kakogawa, Japan



ISO 9001/ISO 14001



is approved by LRQA Ltd. to ISO 9001/14001