FREE FLOAT STEAM TRAP

MODEL SJ3FX DUCTILE CAST IRON

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

Features

TLV

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.
- 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 15 to 25
 —*
 Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

* Manufactured in accordance with sound engineering practice



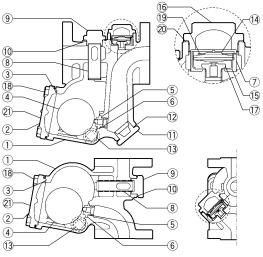
Specifications

Model	SJ3FNX	SJ3FVX	
Installation	Horizontal	Vertical	
Connection	Flanged		
Size	DN 15, 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 1 bar = 0.1 MPa Maximum Allowable Temperature (°C) TMA: 220

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	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 (SJ3FNX)	Cast Stainless Steel A351 Gr.CF8	1.4312	—
9	Screen Holder (SJ3FVX)	Cast Stainless Steel A743 Gr.CA40	1.4027	—
10 ^{MR}	Screen Holder Gasket	Soft Iron SUYP	1.1121	AISI1010
1	Orifice Plug	Cast Stainless Steel A351 Gr.CF8	1.4312	—
(12) ^{MR}	Orifice Plug Gasket (SJ3FNX)	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}	X-element Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
21)	Nameplate	Stainless Steel SUS304	1.4301	AISI304



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* Equivalent materials

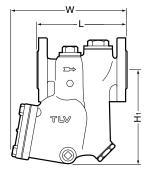
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

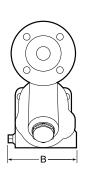
TLV.

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Dimensions

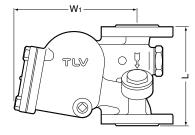
• SJ3FNX Flanged

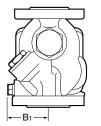




SJ3FNX Flanged (mm)					
DN	L DIN 2501 PN25/40	H1	w	В	Weight (kg)
15	150	157	177	100	6.0
20	150				6.4
25	160		184		6.9

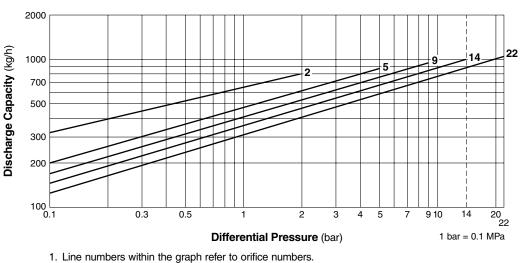
• SJ3FVX Flanged





SJ3F	VX Flange	d		(mm)
DN	L DIN 2501 PN25/40	W1	Bı	Weight (kg)
15	150 160			5.1
20		155	70	5.6
25				6.3

Discharge Capacity



- 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. 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!





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Specifications subject to change without notice.