

FREE FLOAT® STEAM TRA

MODEL SJ3FB 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 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 bimetal air vent valve vents air automatically for rapid
- 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.

Pressure Equipment Directive (PED)

Classification according to PED 2014/68/EU, fluid group 2

Size	Category	CE Marking
DN 15 to DN 25		Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

^{*} Manufactured in accordance with sound engineering practice



Specifications

Model	SJ3FNB	SJ3FVB	
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	22	20	

1.1121

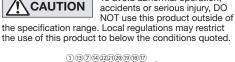
AISI1010

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

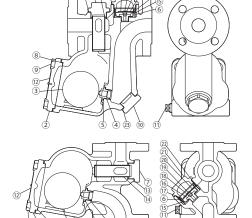
1 bar = 0.1 MPa

To avoid abnormal operation

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	Float		Stainless Steel SUS316L	1.4404	AISI316L
4	Orifice		_	_	_
(5)	Orifice Gasket		Fluorine Resin PTFE	PTFE	PTFE
6	Screen		Stainless Steel SUS304	1.4312	AISI304
7	Screen Holder	SJ3FNB	Cast Stainless Steel A351 Gr.CF8	1.4312	_
	Screen Holder	SJ3FVB	Cast Stainless Steel A743 Gr.CA40	1.4027	_
8	Cover Gasket		Fluorine Resin PTFE	PTFE	PTFE
9	Cover Bolt		Carbon Steel S45C	1.0503	AISI1045
10	Orifice Plug (SJ3FNB)		Cast Stainless Steel A351 Gr.CF8	1.4312	_
11)	Plug		Carbon Steel SS400	1.0037	A6
12	Nameplate		Stainless Steel SUS304	1.4301	AISI304
13)	Screen Holder Gasket		Soft Iron SUYP	1.1121	AISI1010
14)	Main Screen		Stainless Steel SUS430	1.4016	AISI430
(15)	Element Guide		Stainless Steel SUS304	1.4301	AISI304
16)	Air Vent Valve Seat		_	_	_
17)	Bimetal		_	_	_
18)	Snap Ring		Stainless Steel SUS304	1.4301	AISI304
19	Air Vent Valve		_	_	_
20	Snap Ring		Stainless Steel SUS304	1.4301	AISI304
21)	Element Cover		Cast Stainless Steel A351 Gr.CF8	1.4312	_
(22)	Element Cover Gasket		Fluorine Resin PTFE	PTFE	PTFE



CAUTION



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③ Orifice Plug Gasket (SJ3FNB) Soft Iron SUYP * Equivalent materials

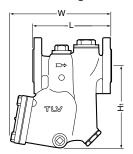
Contact TLV for available replacement parts.

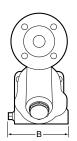


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Dimensions

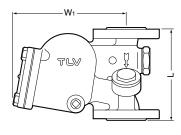
SJ3FNB Flanged

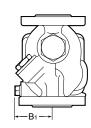




SJ3FNB Flanged (mr					(mm)	
	DN	L DIN 2501 PN25/40	H ₁	W	В	Weight (kg)
_	15	150	160	180	100	6.0
	20					6.4
	25	160		185		6.9

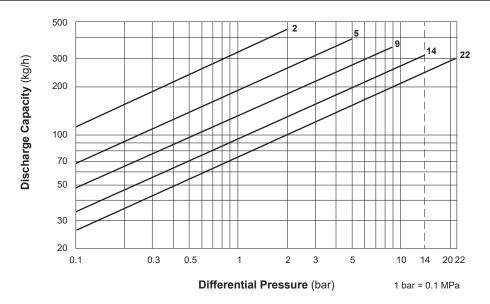
SJ3FVB Flanged





SJ3	(mm)			
DN	L DIN 2501 PN25/40	W ₁	B ₁	Weight (kg)
15	150	155	70	5.1
20	150			5.6
25	160			6.3

Discharge Capacity



- Line numbers within the graph are orifice numbers.
 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!

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

