

# FREE FLOAT® STEAM TRA

MODEL SJ5FB 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 20, DN 25		Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

<sup>\*</sup> Manufactured in accordance with sound engineering practice



# **Specifications**

Model	SJ5FNB	SJ5FVB		
Installation	Horizontal	Vertical		
Connection	Flanged			
Size	DN 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		

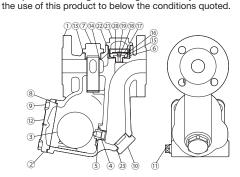
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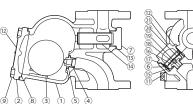
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PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 22 Maximum Allowable Temperature (°C) TMA: 220 1 bar = 0.1 MPa

To avoid abnormal operation

No.	lo. Description		Material	DIN*	ASTM/AISI*	CAUTION		serious injury, DO
(1)			Ductile Cast Iron GGG40.3	0.7043	A395			product outside of
2	· ,		Ductile Cast Iron GGG40.3	0.7043	A395	<ul> <li>the specification range</li> <li>the use of this produc</li> </ul>		
3			Stainless Steel SUS316L	1.4404	AISI316L	and doo or time produce	to bolow the c	orianiono quotou.
4			_	_	_	1374	4222120191817	)
(5)	Orifice Gasket		Fluorine Resin PTFE	PTFE	PTFE		\\###\Z	
6	Screen		Stainless Steel SUS304	1.4301	AISI304			1999
(7)	Screen Holder	SJ5FNB	Cast Stainless Steel A351 Gr.CF8	1.4312	_		$\mathbb{Z}$	$((\bigcirc))$
	Screen Holder	SJ5FVB	Cast Stainless Steel A743 Gr.CA40	1.4027	_		$D/(\alpha)$	(0~0)
8	8 Cover Gasket		Fluorine Resin PTFE	PTFE	PTFE	8 J		
9	9 Cover Bolt		Carbon Steel S45C	1.0503	AISI1045	9-17-	11 11	
10			Cast Stainless Steel A351 Gr.CF8	1.4312	_	12-15//		)
11)	) Plug		Carbon Steel SS400	1.0037	A6	<u> 3</u> ₩// )		
(12)	Nameplate		Stainless Steel SUS304	1.4301	AISI304			
13)	Screen Holder Ga	sket	Soft Iron SUYP	1.1121	AISI1010	_ ②	5 4 23 10 11	
14)	Main Screen		Stainless Steel SUS430	1.4016	AISI430	_	0 0 0 0 0	
(15)	5 Element Guide		Stainless Steel SUS304	1.4301	AISI304			
16)	6 Air Vent Valve Seat		_	_	_	- 12 #5		
17)	7 Bimetal		_	_	_			<i>®</i> / <i>\</i> ((○)) }
18			Stainless Steel SUS304	1.4301	AISI304	- 1311 Jak	7	
19			_	_	_			
20	- : •		Stainless Steel SUS304	1.4301	AISI304		$\mathcal{J} / \mathcal{L}$	
21)			Cast Stainless Steel A351 Gr.CF8	1.4312	_		7	
22	② Element Cover Gasket		Fluorine Resin PTFE	PTFE	PTFE	928315	(4)	







Orifice Plug Gasket (SJ5FNB) | Soft Iron SUYP

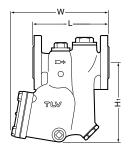
<sup>\*</sup> Equivalent materials

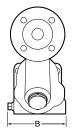


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## **Dimensions**

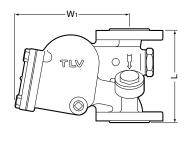
### SJ5FNB Flanged

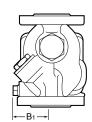




SJ5FNB Flanged (mm)					
DN	L DIN 2501 PN25/40	H <sub>1</sub>	W	В	Weight (kg)
20	150	170	200	115	8.0
25	160	170	205		8.4

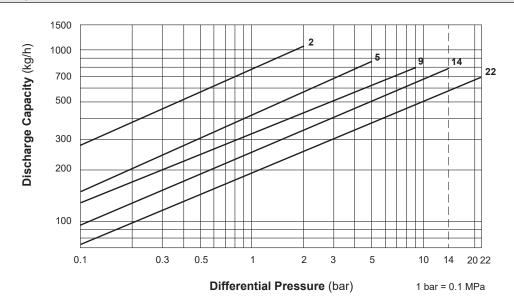
### SJ5FVB Flanged





SJ5FVB Flanged (mm)						
DN	L DIN 2501 PN25/40	W <sub>1</sub>	B <sub>1</sub>	Weight (kg)		
20	150	175	70	7.3		
25	160	1/5	/0	7.8		

# **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 approved by LRQA Ltd. to ISO 9001/14001

