

FREE FLOAT® STEAM TRA

MODEL SJH3B CAST STEEL

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 high pressure 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		Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

^{*} Manufactured in accordance with sound engineering practice



Specifications

Model	SJH3NB	SJH3VB	
Installation	Horizontal	Vertical	
Connection	Flanged		
Size	DN 15		
Orifice No.	5, 10, 14, 22, 32		
Maximum Operating Pressure (barg) PMO	5, 10, 14, 22, 32		
Maximum Differential Pressure (bar) ΔPMX	5, 10, 14, 22, 32		
Maximum Operating Temperature (°C) TMO	40	00	

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 40 Maximum Allowable Temperature (°C) TMA: 400 Minimum Allowable Temperature (°C): 0

1 bar = 0.1 MPa

					
No.	Description	Material	DIN*	ASTM/AISI*	To avoid abnormal operation, accidents or serious injury, DO
1	Body	Cast Steel A216 Gr.WCB	1.0619	_	NOT use this product outside of
2	Cover	Carbon Steel A105	1.0460	_	the specification range. Local regulations may restrict
3	Float	Stainless Steel SUS316L	1.4404	AISI316L	the use of this product to below the conditions quoted.
4	Orifice	_	_	_	- T T T T T T T T T T T T T T T T T T T
(5)	Orifice Gasket	Graphite/Stainl. Steel SUS316L	-/1.4404	-/AISI316L	
6	Orifice Plug Gasket	Soft Iron SUYP	1.1121	AISI1010	
7	Orifice Plug	Cast Stainless Steel A351 Gr.CF8	1.4312	_	
8	Cover Gasket	Graphite/Stainl. Steel SUS316L	-/1.4404	-/AISI316L	
9	Cover Bolt	Carbon Steel SNB7	1.7225	A193 Gr.B7	
10	Cover Nut	Carbon Steel S45C	1.0503	AISI1045	
11)	Screen Holder Gasket	Soft Iron SUYP	1.1121	AISI1010	
12	Screen Holder	Cast Stainless Steel A351 Gr.CF8	1.4312	_	
13)	Strainer	Stainless Steel SUS430	1.4016	AISI430	
14)	Element Cover Gasket	Soft Iron SUYP	1.1121	AISI1010	
15)	Element Cover	Cast Stainless Steel A351 Gr.CF8	1.4312	_	
16)	Guide	Stainless Steel SUS304	1.4301	AISI304	
17)	Air Vent Valve Seat	_	_	_	
18)	Bimetal	_	_	_	
19	Snap Ring	Stainless Steel SUS304	1.4301	AISI304	
20	Air Vent Valve	_	_	_	
21)	Snap Ring	Stainless Steel SUS304	1.4301	AISI304	
(22)	Screen	Stainless Steel SUS304	1.4301	AISI304	

Stainless Steel SUS304

* Equivalent materials

Contact TLV for available replacement parts.

Nameplate

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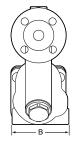


$\textbf{Consulting} \cdot \textbf{Engineering} \cdot \textbf{Services}$

Dimensions

SJH3NB Flanged

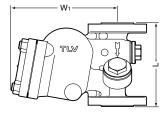


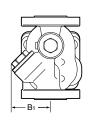


SJH3NB Flanged (mm)						
DN	L DIN 2501 PN25/40	H ₁ *	W*	B*	Weight (kg)	
	F1N23/40	F1425/40				
15	150	160	190	95	6.7	

^{*} Approx.

SJH3VB Flanged

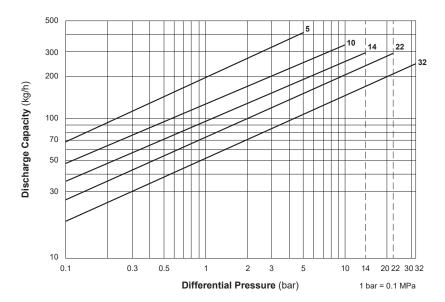




SJH3VB Flanged (mn						
	DN	L DIN 2501	W ₁ *	B ₁ *	Weight (kg)	
		PN25/40			(1.9)	
	15	150	165	70	5.6	

^{*} Approx.

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 ISO 9001 ISO 14001 LRQA CERTIFIED

is approved by LRQA Ltd. to ISO 9001/14001