FREE FLOAT® TLV STEAM TRAP

MODEL SJH7B 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 medium-size 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.
- 3. Thermostatic bimetal air vent valve vents air automatically for rapid startup.
- 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		CE Marking			
DN 40, DN 50	I	With CE marking and Declaration of Conformity			



Specifications

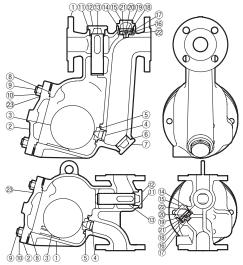
Model	SJH7NB	SJH7VB	
Installation	Horizontal	Vertical	
Connection	Flan	iged	
Size	DN 40, 50		
Orifice No.	5, 10, 14	4, 22, 32	
Maximum Operating Pressure (barg) PMO	5, 10, 14	4, 22, 32	
Maximum Differential Pressure (bar) ΔPMX	5, 10, 14	4, 22, 32	
Maximum Operating Temperature (°C) TMO	40	00	

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 40 1 bar = 0.1 MPa Maximum Allowable Temperature (°C) TMA: 400 Minimum Allowable Temperature (°C): 0

ASTM/AISI* No. Description Material DIN* 1 Bodv Cast Steel A216 Gr.WCB 1.0619 (2) Cover Carbon Steel A105 1.0460 3 Float Stainless Steel SUS316L 1.4404 AISI316L 4 Orifice Orifice Gasket Graphite/Stainl. Steel SUS316L -/1.4404 -/AISI316L (5) 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 Carbon Steel S45C AISI1045 Cover Nut 1.0503 AISI1010 (11) Screen Holder Gasket Soft Iron SUYP 1.1121 (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 Cast Stainless Steel A351 Gr.CF8 (15) Element Cover 1.4312 (16) Element 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 Stainless Steel SUS304 1.4301 AISI304 (22) Screen 23 Nameplate Stainless Steel SUS304 1.4301 AISI304

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.



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* Equivalent materials

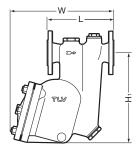
Contact TLV for available replacement parts.

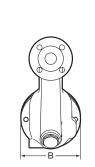
TLV.

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Dimensions



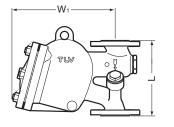




SJH7NB Flanged					(mm)
DN	L DIN 2501 PN25/40	H1	W	В	Weight (kg)
40		315 360	000	205	32
50	230		360		33

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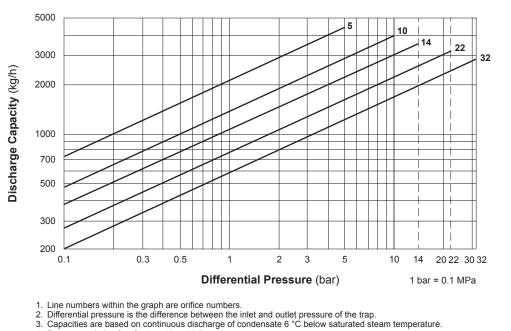
• SJH7VB Flanged





SJH7VB Flanged (mm						
DN	L DIN 2501 PN25/40	W 1	B1	Weight (kg)		
40	40 50 230	315	205	27		
50				29		

Discharge Capacity



4. Recommended safety factor: at least 1.5.

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



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(M)

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DO NOT use this product under conditions that exceed maximum differential pressure, as condensate backup will occur!

SDS U2000-548 Rev. 10/2024 Products for intended use only. Specifications subject to change without notice.