

FREE FLOAT® STEAM TRAP

MODEL SJH5X CAST STEEL STAINLESS 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.

- Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
- 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.
- 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	1	with CE marking and Declaration of Conformity		



Specifications

Model		SJH5NX	SJH5VX	
Installation		Horizontal	Vertical	
Connection		Flanged		
Size		DN 20, 25		
Orifice No.		5, 10, 14, 22, 32		
Maximum Operating Pressure (barg)	PMO	5, 10, 14, 22, 32		
Maximum Differential Pressure (bar)	ΔΡΜΧ	5, 10, 14, 22, 32		
Maximum Operating Temperature (°C) TMO		240		
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: 40
Maximum Allowable Temperature (°C) TMA: 400

1 bar = 0.1 MPa

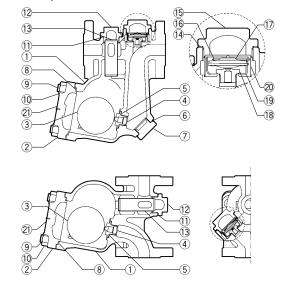
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To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

AISI304

No.	Description	Material	DIN*	ASTM/AISI*
1	Body	Cast Steel A216 Gr.WCB	1.0619	_
	Бойу	Cast Stainless Steel** A351 Gr.CF8	1.4312	_
2	Cover	Carbon Steel A105	1.0460	_
		Cast Stainless Steel** A351 Gr.CF8	1.4312	_
3	Float	Stainless Steel SUS316L	1.4404	AISI316L
4	Orifice	_	_	_
5	Orifice Gasket	Graphite/Stainless Steel SUS316L	-/1.4404	-/AISI316L
6)	Orifice Plug Gasket (SJH5NX)	Soft Iron SUYP	1.1121	AISI1010
0		Stainless Steel** SUS316L	1.4404	AISI316L
<u></u>	Orifice Plug (SJH5NX)	Cast Stainless Steel A743 Gr.CA40	1.4027	_
7		Stainless Steel SUS303**	1.4305	AISI303
8	Cover Gasket	Graphite/Stainless Steel SUS316L	-/1.4404	-/AISI316L
(9)	Cover Bolt	Alloy Steel SNB7	1.7225	A193 Gr.B7
9)		Stainless Steel** SUS304	1.4301	AISI304
10)	Cover Nut	Carbon Steel S45C	1.0503	AISI1045
IU)		Stainless Steel** SUS304	1.4301	AISI304
n	Screen Holder Gasket	Soft Iron SUYP	1.1121	AISI1010
11)		Stainless Steel** SUS316L	1.4404	AISI316L
12	Screen Holder	reen Holder Cast Stainless Steel A351 Gr.CF8		_
13	Screen	Stainless Steel SUS430	1.4016	AISI430
14)	X-element Cover Gasket	Soft Iron SUYP	1.1121	AISI1010
		Stainless Steel** SUS316L	1.4404	AISI316L
15)	X-element Cover	Cast Stainless Steel A351 Gr.CF8	1.4312	_
16	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
17)	X-element	Stainless Steel	_	
18	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
19	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
20	Air Vent Screen	Stainless Steel SUS304	1.4301	AISI304
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Stainless Steel SUS304



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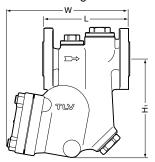
^{*} Equivalent materials ** For stainless steel model

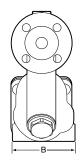


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Dimensions

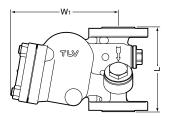
● SJH5NX Flanged

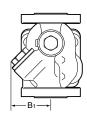




SJH5NX Flanged (mm)						
	DN	L DIN 2501 PN25/40	Hı	w	В	Weight (kg)
	20	150	170	215	110	8.7
	25	160		220		10

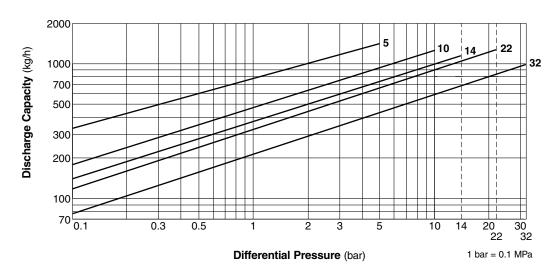
● SJH5VX Flanged





SJH5VX Flanged (mm)					
DN	L DIN 2501 PN25/40	W 1	B ₁	Weight (kg)	
20	150	195	70	7.5	
25	160			9.2	

Discharge Capacity



- 1. Line numbers within the graph refer to orifice numbers.
- 2. Differential pressure is the difference between the inlet and outlet pressure of the trap.
- 3. Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature.

https://www.tlv.com

4. 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

