

FREE FLOATS STEAM TRAP

MODEL SS1 STAINLESS STEEL

FREE FLOAT STEAM TRAPS WITH THREE-POINT SEATING AND THERMOSTATIC AIR VENTING

Features

Inline repairable stainless steel steam trap for steam mains, tracer lines and small process applications.

- 1. Self modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
- 2. Constant water seal and unique three-point seating ensure perfect steam-tight seal, even under no-load conditions.
- 3. Trap incorporates thermostatic air vent for fast start-up.
- 4. Built-in screen with large surface area holds back impurities.
- 5. Only one moving part, the free float, prevents concentrated wear and provides long service life.
- 6. 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 25	_*	Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

^{*} Manufactured in accordance with sound engineering practice

Specifications

Model	SS1NL	SS1VL	SS1VH				
Installation	Horizontal	Vertical	al Horizontal V				
Connection		Screwed, Socket Welded, Flanged					
Size	½", ¾", 1" / DN 15, 20, 25						
Orifice No.	5, 10, 21						
Maximum Operating Pressure (barg)	5, 10, 21						
Maximum Differential Pressure (bar)	5, 10, 21						
Maximum Operating Temperature (°C)	2:	20 400					

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 21 (SS1NL/SS1VL), 25 (SS1NH/SS1VH) Maximum Allowable Temperature (°C) TMA: 220 (SS1NL/SS1VL), 400 (SS1NH/SS1VH) Minimum Allowable Temperature (°C): -40 1 bar = 0.1 MPa



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.

No.	Description		Material	DIN*	ASTM/AISI*
1	Body		Cast Stainless Steel A351/ A351M Gr.CF8 or CF8M	1.4312 or 1.4410	_
2	Cover		Cast Stainless Steel A351/ A351M Gr.CF8 or CF8M	1.4312 or 1.4410	_
3 F	Float		Stainless Steel SUS316L	1.4404	AISI316L
(4) R	Orifice		_	_	_
(5)MR	Orifice Gasket		Stainless Steel SUS316L	1.4404	AISI316L
6) R	Screen		Stainless Steel SUS304	1.4301	AISI304
(7)MR	Cover Gasket	SS1NL/VL	Fluorine Resin PTFE	PTFE	PTFE
<i>U</i>	Cover Gasket	SS1NH/VH	Graphite/Stainless Steel SUS316L	-/1.4404	-/AISI316L
8	Cover Bolt		Stainless Steel or A193/ A193M Gr.B8M	- or 1.4401	_
9 ^R	Air Vent Strip		Bimetal	_	_
10 R	Screw		Stainless Steel SUS304	1.4301	AISI304
11) R	Spring Washer		Stainless Steel SUS304	1.4301	AISI304
12	Nameplate		Stainless Steel SUS304/SUS316L	1.4301/ 1.4404	AISI304/ AISI316L
13	Connector		Stainless Steel SUS304	1.4301	AISI304
14)	Flange**		Cast Stainless Steel A351/ A351M Gr.CF8 or CF8M	1.4312 or 1.4410	_

SS1NL SS1NH 8 9 2 7 (8) 2 (10(11) SS1VL SS1VH

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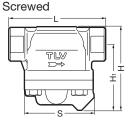
Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

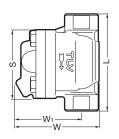
^{*} Equivalent materials ** Shown on reverse

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Dimensions

• SS1NL/SS1NH



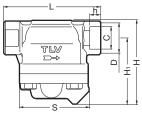


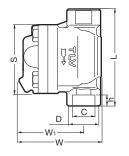
SS1VL/SS1VH

SS1NL/SS1NH/SS1VL/SS1VH Screwed* (mm)									
Size	L	H (W)	H1 (W1)	S	Weight (kg)				
15	110				1.6				
20	120	102 (103)	81 (82)	85	1.7				
25	130	(100)			1.8				
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^{*} BSP DIN 2999, other standards available

Socket Welded



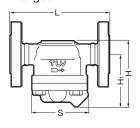


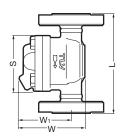
SS1NL/SS1NH/SS1VL/SS1VH Socket Welded* (mm)

Size	L	H (W)	H1 (W1)	S	ΦD	ΦС	h	Weight (kg)
15	110	102 (103)	81 (82)	85	30	21.8	13	1.6
20	120				36	27.2		1.7
25	130	(****)			44	33.9		1.8

^{*} ASME B16.11-2005, other standards available

Flanged



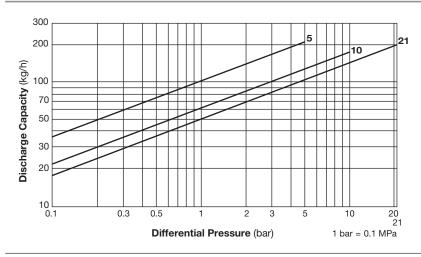


SS1NL/SS1NH/SS1VL/SS1VH Flanged (mm)

DN	DIN 2501 PN25/40	L ASME Class 150RF 300RF		H (W)	H1 (W1)	S	Weight* (kg)
15		175	175	102 (103)	81 (82)	85	2.8
20		195	195				3.2
25	160	215	215	(130)	()		4.2

Other standards available, but length and weight may vary * Weight is for DIN PN 25/40

Discharge Capacity



- 1. Line numbers within the graph refer to 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



approved by LRQA Ltd. to ISO 9001/14001



ISO 9001 ISO 14001