FREE FLOAT 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 F	2014/66/EU, Ilula grou	
Size	Category	CE marking
DN 15 to 25	*	Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed
* Manufactured in accordance w	vith sound engineering practic	e

Specifications

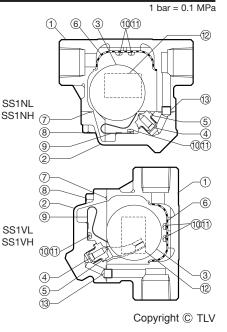
Model		SS1NL	SS1VL	SS1NH	SS1VH
Installation	Horizontal	Vertical	Horizontal	Vertical	
Connection	Screwed, Socket Welded, Flanged				
Size	1⁄2″ , 3⁄4″ , 1″ / DN 15, 20, 25				
Orifice No.	5, 10, 21				
Maximum Operating Pressure (barg)	5, 10, 21				
Maximum Differential Pressure (bar)	5, 10, 21				
Maximum 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)



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.

	Description			D 111	
No.	Descript	ion	Material	DIN*	ASTM/AISI*
1	Body		Cast Stainless Steel A351 Gr.CF8	1.4312	
2	Cover		Cast Stainless Steel A351 Gr.CF8	1.4312	
3 F	Float		Stainless Steel SUS316L	1.4404	AISI316L
(4) ^R	Orifice			_	_
(5) ^{MR}	Orifice Gasket		Stainless Steel SUS316L	1.4404	AISI316L
<u>б</u> я	Screen		Stainless Steel SUS304	1.4301	AISI304
(7) ^{MR}	Cover Gasket	SS1NL/VL	Fluorine Resin PTFE	PTFE	PTFE
U		SS1NH/VH	Graphite/Stainless Steel SUS316L	-/1.4404	-/AISI316L
8	Cover Bolt		Stainless Steel SUS304	1.4301	AISI304
(9) ^R	Air Vent Strip		Bimetal	—	—
<u>10</u> в	^R Screw		Stainless Steel SUS304	1.4301	AISI304
(1) [₽]	Spring Washer		Stainless Steel SUS304	1.4301	AISI304
(12)	Nameplate		Stainless Steel SUS304	1.4301	AISI304
(13)	Connector		Stainless Steel SUS304	1.4301	AISI304
14	Flange**		Cast Stainless Steel A351 Gr.CF8	1.4312	



* Equivalent materials ** Shown on reverse

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

TLV.

Dimensions

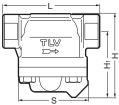
• SS1NL/SS1NH Screwed

Socket Welded

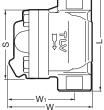
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Flanged

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SS1NL/SS1NH/SS1VL/SS1VH Screwed* (mm)

Size	L	H (W)	H1 (W1)	S	Weight (kg)
15	110	102 (103)	81 (82)	85	1.6
20	120				1.7
25	130				1.8

* BSP DIN 2999, other standards available

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

Size	L	H (W)	H1 (W1)	S	ΦD	φC	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

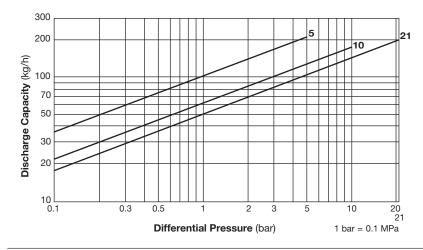
* ASME B16.11-2005, other standards available

SS1NL/SS1NH/SS1VL/SS1VH Flanged (mm)

DN	DIN 2501	H (W)	H1 (W1)	S	Weight* (kg)		
	PN25/40	150RF	300RF				(Kg)
15	150	175	175	102 (103)	81 (82)	85	2.8
20	150	195	195				3.2
25	160	215	215	(,			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.
- 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 TLV: CO., LTD. Kakogawa, Japan

approved by LRQA Ltd. to ISO 9001/14001



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