

## FREE FLOATS STEAM TRAP

### MODEL SS1 STAINLESS STEEL

### FREE FLOAT STEAM TRAPS WITH 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.



### **Specifications**

Model	SS1NL	SS1VL SS1NH		SS1VH	
Installation	Horizontal	Vertical Horizontal Ve			
Connection	Screwed, Socket Welded, Flanged				
Size	½", ¾", 1"/ DN 15, 20, 25				
Orifice No.	5, 10, 21				
Maximum Operating Pressure (barg)	РМО	5, 10, 21			
Maximum Differential Pressure (bar)	ΔΡΜΧ	5, 10, 21			
Maximum Operating Temperature (°C)	TMO	2:	220 350		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS):

Maximum Allowable Pressure (barg) PMA: 21

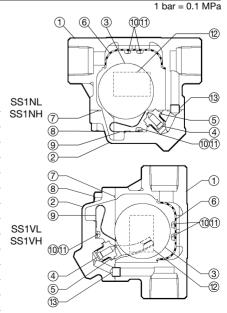
Maximum Allowable Temperature (C) TMA: 220 (SS1NL/SS1VL), 350 (SS1NH/SS1VH)

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.

No.	Description		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	Valve Seat		_	_	_
5 <sup>MR</sup>	Valve Seat Gasket		Stainless Steel SUS316L	1.4404	AISI316L
6 <sup>R</sup>	Screen		Stainless Steel SUS304	1.4301	AISI304
(7)MR	Cover Gasket	SS1NL/VL	Fluorine Resin PTFE	PTFE	PTFE
<i>U</i>		SS1NH/VH	Graphite/Stainless Steel SUS316L	-/1.4404	-/AISI316L
8	Cover Bolt		Stainless Steel SUS304	1.4301	AISI304
9 <sup>R</sup>	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	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





### **Consulting & Engineering Service**

### **Dimensions**

### SS1NL/SS1NH

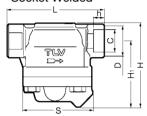
Screwed

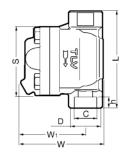
# W<sub>1</sub>

### • SS1VL/SS1VH

SS1NL/SS1NH/SS1VL/SS1VH Screwed\* H (W) H<sub>1</sub> (W<sub>1</sub>) Weight (kg) 15 110 1.6 102 20 120 85 1.7 (82) (103)25 130 1.8

### Socket Welded



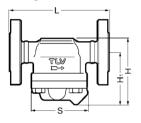


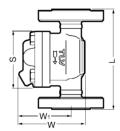
### SS1NL/SS1NH/SS1VL/SS1VH Socket Welded\* (mm)

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

<sup>\*</sup> ASME B16.11-2005, other standards available

### Flanged



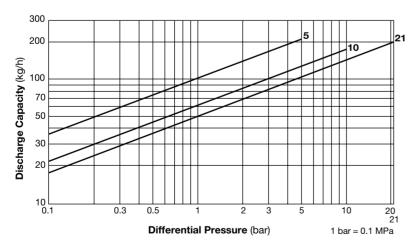


#### SS1NL/SS1NH/SS1VL/SS1VH Flanged (mm)

		· ·					
DN	L DIN 2501 ASME Class PN25/40 150RF 300RF			H (W)	H1 (W1)	S	Weight* (kg)
15	150	175	175	102 (103)	81 (82)	85	2.8
20		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.
- 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.
- 4. Recommended safety factor: at least 1.5.



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

Manufacturer







<sup>\*</sup> BSP DIN 2999, other standards available