

FREE FLOATS STEAM TRAP

MODEL SS1

FREE FLOAT STEAM TRAP 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
- 4. Built-in screen with large surface area holds back impurities.
- 5. Only one moving part, the free float, reduces concentrated wear and provides a 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	Vertical		
Connection		Screwed, Socket Welded, Flanged					
Size (mm)		15, 20, 25					
Orifice No.	5, 10, 21						
Maximum Operating Pressure (MPaG) PMO			0.5, 1	0.5, 1.0, 2.1			
Maximum Differential Pressure (MPa)	ΔΡΜΧ	0.5, 1.0, 2.1					
Minimum Operating Pressure (MPaG)		0.01					
Maximum Operating Temperature (°C)	22	20	350				

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS):

Maximum Allowable Pressure (MPaG) PMA: 2.1

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

CAUTION

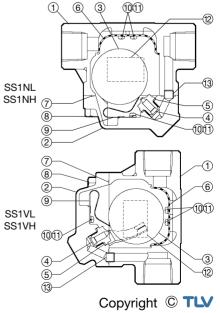
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description		Material	JIS	ASTM/AISI*
1	Body		Cast Stainless Steel	_	A351 Gr.CF8
2	Cover		Cast Stainless Steel		A351 Gr.CF8
3 F	Float		Stainless Steel	SUS316L	AISI316L
4)R	Valve Seat		_	_	_
5 ^{MR}	Valve Seat Gasket		Stainless Steel	SUS316L	AISI316L
6 R	Screen		Stainless Steel	SUS304	AISI304
(7)MB	Over Gasket	SS1NL/VL	Fluorine Resin	PTFE	PTFE
U		SS1NH/VH	Graphite/Stainless Steel	—/SUS316L	─/AISI316L
8	Cover Bolt		Stainless Steel	SUS304	AISI304
9 R	Air Vent Strip		Bimetal	_	_
10 R	Screw		Stainless Steel	SUS304	AISI304
11) R	Spring Washer		Stainless Steel	SUS304	AISI304
12	Nameplate		Stainless Steel	SUS304	AISI304
13	Connector		Stainless Steel	SUS304	AISI304
14)	Flange**		Cast Stainless Steel		A351 Gr.CF8

^{*} Equivalent ** Shown on reverse

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

1 MPa = 10.197 kg/cm²

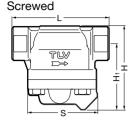




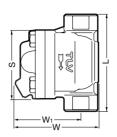
Consulting & Engineering Service

Dimensions

SS1NL • SS1NH



● SS1VL • SS1VH

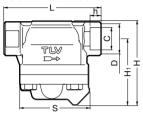


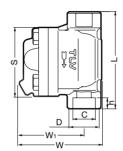
SS1NL • SS1NH/SS1VL • SS1VH Screwed* (mm)

Size	L	H/W	H ₁ /W ₁	S	Weight (kg)
15	110				1.6
20	120	102/103	81/82	85	1.7
25	130				1.8

^{*} Rc(PT), other standards available

Socket Welded

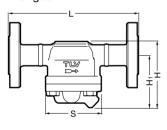


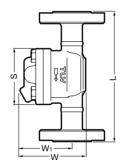


SS1NL • SS1NH/SS1VL • SS1VH Socket Welded (mm)

Size	L	H/W	H1/W1	S	φD	φC	h	Weight (kg)
15	110				30	22.2		1.6
20	120	102/103	81/82	85	36	27.7	13	1.7
25	130				44	34.5		1.8

Flanged



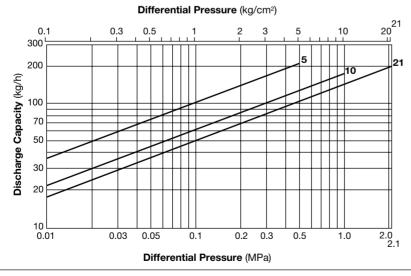


SS1NL • SS1NH/SS1VL • SS1VH Flanged

Size	ASME	L ASME Class		H1/W1	S	Weight* (kg)
	150RF	300RF				(Kg)
15	175	175				2.9
20	195	195	102/103	81/82	85	3.9
25	215	215				4.6

Other standards available, but length and weight may vary Weight is for Class 300 RF

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
- 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





