

FREE FLOATS STEAM TRAP

MODEL SS1

FREE FLOAT STEAM TRAP 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 startup.
- 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, 2.1				
Maximum Differential Pressure (MPa)	ΔΡΜΧ	0.5, 1.0, 2.1				
Minimum Operating Pressure (MPaG)		0.01				
Maximum Operating Temperature (°C)	TMO	220 400				

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS):
Maximum Allowable Pressure (MPaG) PMA: 2.1 (SS1NL/SS1VL), 2.5 (SS1NH/SS1VH)
Maximum Allowable Temperature (°C) TMA: 220 (SS1NL/SS1VL), 400 (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.	Descripti	on	Material	JIS	ASTM/AISI*
_				010	
(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	Orifice		_	_	_
⑤ ^{MR}	Orifice Gasket Screen		Stainless Steel	SUS316L	AISI316L
6 R			Stainless Steel	SUS304	AISI304
(7)MR	Cover Gasket	SS1NL/VL	Fluorine Resin	PTFE	PTFE
U		SS1NH/VH	Graphite/Stainless Steel	— /SUS316L	— /AISI316L
8	Cover Bolt		Stainless Steel	_	_
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

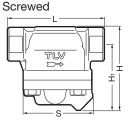
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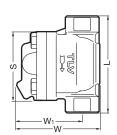
Replacement Kits available: (M) maintenance parts, (R) repair parts, (F) float

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Dimensions

• SS1NL • SS1NH



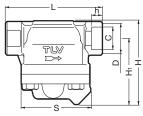


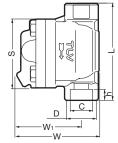
● SS1VL • SS1VH SS1NL • SS1NH/SS1VL • SS1VH Screwed* (mm)

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

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

Socket Welded

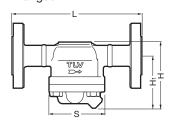


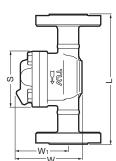


SS1NL • SS1NH/SS1VL • SS1VH Socket Welded (mm)

					(11)			
Size	L	H/W	H1/W1	S	φD	φС	h	Weight (kg)
15	110	102/103	81/82	85	30	22.2	13	1.6
20	120				36	27.7		1.7
25	130				44	34.5		1.8

Flanged



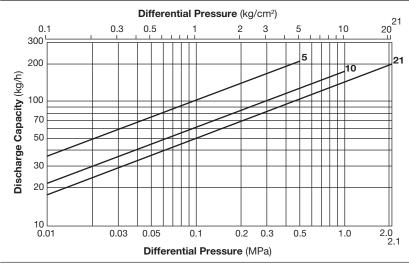


SS1NL • SS1NH/SS1VL • SS1VH Flanged (mm)

Size	ASME Class		H/W	H1/W1	S	Weight* (kg)
	150RF	300RF				(Kg)
15	175	175		81/82	85	2.9
20	195	195	102/103			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.
- 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



LRQA CERTIFIED

ISO 9001

is approved by LRQA Ltd. to ISO 9001/14001

Specifications subject to change without notice.