TLV. FREE FLOAT. STEAM TRAP

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

Features

Maintenance-free stainless steel steam trap for steam mains, tracer lines and small-tomedium process applications.

- 1. All-welded, maintenance-free construction.
- 2. Automatic bimetal air vent for rapid start-up.
- 3. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
- 4. Constant water seal and unique three-point seating ensure perfect steam-tight seal, even under no-load conditions.
- 5. Only one moving part, the free float, prevents concentrated wear and provides long service life.
- 6. Built-in screen with large surface area holds back impurities.



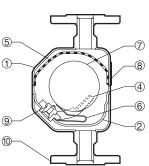
Specifications

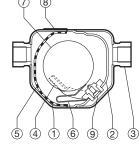
Model		SS5N	SS5V	SS5NH	SS5VH
Installation	Horizontal	Vertical	Horizontal	Vertical	
Connection	Screwed, Socket	Welded, Flanged	Screwed, Socket Welded, Flanged		
Size (mm)	15, 20, 25		15, 20, 25		
Orifice No.	5, 10, 16, 21, 32		46		
Maximum Operating Pressure (MPaG) PMO		0.5, 1.0, 1.6, 2.1, 3.2		4.6	
Maximum Differential Pressure (MPa) ΔPMX		0.5, 1.0, 1.6, 2.1, 3.2		4.6	
Minimum Operating Pressure (MPaG)		0.01		0.01	
Maximum Operating Temperature (°C)	42	25	425		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 4.6 1 MPa = 10.197 kg/cm² Maximum Allowable Temperature (°C) TMA: 425

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	Stainless Steel	—	A240 Type 316L	
2	Inner Cover	Stainless Steel	—	A240 Type 316L	
3	Socket	Cast Stainless Steel	—	A351 Gr.CF8	
4	Float Guide	Cast Stainless Steel	_	A351 Gr.CF3M	
(5)	Screen	Stainless Steel	SUS304	AISI304*	
6	Air Vent Strip	Bimetal	—	—	
\bigcirc	Float	Stainless Steel	SUS316L	AISI316L*	
8	Nameplate	Stainless Steel	SUS304	AISI304*	
9	Orifice	—	—	—	
10	Flange**	Stainless Steel/ Cast Stainless Steel	SUS304/	AISI304*/ A351 Gr.CF8	





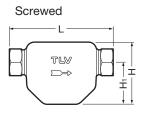
* Equivalent ** Material depends on flange specifications

(mm)

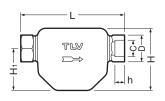
(mm)

Dimensions

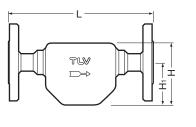
SS5N/SS5NH

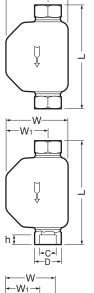


Socket Welded



Flanged





SS5V/SS5VH

-W-

-W1----

SS5N/SS5NH/SS5V/SS5VH Screwed*

Model	Size	L	Φ Η/W	H1/W1	Weight (kg)
SS5N SS5V	15	155	105	71	1.4
	20	182			1.6
	25	193			1.8
SS5NH SS5VH	15	160			1.5
	20	187	108	73	1.7
	25	198			1.9

* Rc(PT), other standards avaliable

SS5N/SS5NH/SS5V/SS5VH Socket Welded (mm)

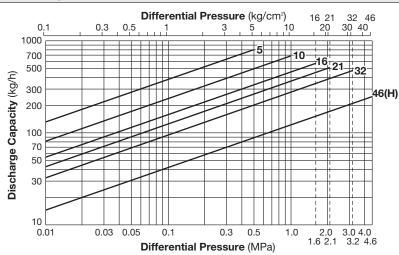
Model	Size	L	Φ Η/W	H1/W1	φD	φC	h	Weight (kg)
SS5N SS5V	15	155	105	71	30	22.2	12	1.4
	20	182			36	27.7	14	1.6
	25	193			44	34.5		1.8
SS5NH SS5VH	15	160	108	73	30	22.2	12	1.5
	20	187			36	27.7	14	1.7
	25	198			44	34.5		1.9

SS5N/SS5NH/SS5V/SS5VH Flanged

Model	Size	L ASME Class			φ H/W	H1/W1	Weight* (kg)
		150RF	300RF	600RF			(**3)
SS5N SS5V	15	202	202	202	105	71	3.6
	20	222	222	222			5.0
	25	242	242	242			5.8
SS5NH SS5VH	15	_	_	208		73	3.7
	20	_	_	228	108		5.1
	25	—	—	248			5.9

Other standards available, but length and weight may vary * Weight is for Class 600 RF

Discharge Capacity



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- 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.
- 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





is approved b

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SDS M2000-55 Rev. 3/2020 Products for intended use only. Specifications subject to change without notice.

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