

SS1VG has been Discontinued



FREE FLOAT DRAIN TRAP

MODELS SS1VA/SS1VG

DRAIN TRAP WITH TIGHT SHUT-OFF FOR INERT (SS1VA) AND HAZARDOUS (SS1VG) GASES

Benefits

All stainless steel trap to be installed vertically in pipe ends. Automatically drains condensate from air and gas systems.

1. Constant water seal and unique rotational seating design eliminate concentrated wear to ensure long life.
2. Three-point seating provides a tight seal even under no-load conditions (with rubber orifice).
3. Easy, inline access to internal parts simplifies cleaning and lowers maintenance costs.
4. Built-in screen with large surface area ensures extended trouble-free service.



Specifications

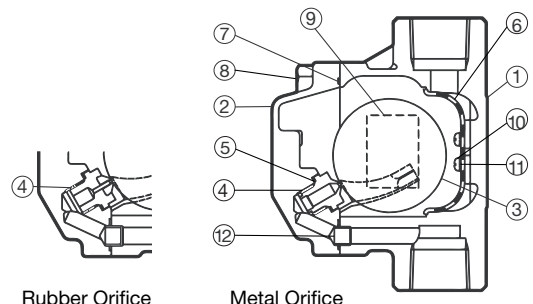
Model	SS1VA-R*	SS1VA-M*	SS1VG-R*	SS1VG-M*
Connection	Screwed		Screwed	
Size (in)	1		1	
Orifice No.	10	10, 21	10	G5, G10, G16, G21
Maximum Operating Pressure (psig) PMO**	150	150, 300	150	75, 150, 230, 300
Maximum Differential Pressure (psi) ΔPMX**	150	150, 300	150	75, 150, 230, 300
Minimum Operating Pressure (psig)	Vacuum		Vacuum	
Maximum Operating Temperature (°F) TMO	212	428	302	428
Maximum Allowable Pressure (psig) PMA	300		300	
Maximum Allowable Temperature (°F) TMA	428		428	

* M: Metal orifice, R: Rubber orifice ** For specific gravities other than 1.00, use table below **Connections and sizes in bold are standard**

Model	Orifice No.	Specific Gravity										
		1.00	0.99-0.95	0.94-0.90	0.89-0.85	0.84-0.80	0.79-0.75	0.74-0.70	0.69-0.65	0.64-0.60	0.59-0.55	0.54-0.50
Maximum Operating Pressure PMO (psig) & Maximum Differential Pressure ΔPMX (psi)												
SS1VA-R	10	150	150	150	150	148	127	105	83	61	40	18
SS1VA-M	10	150	150	144	128	111	95	79	62	46	30	14
	21	300	300	300	300	290	247	205	162	120	78	35
SS1VG-R	10	150	140	126	112	98	83	69	55	40	26	12
SS1VG-M	G5	75	70	63	56	49	42	34	27	20	13	6
	G10	150	140	126	112	98	83	69	55	40	26	12
	G16	230	213	192	170	148	127	105	83	61	40	18
	G21	300	293	263	233	203	174	144	114	84	55	25

No.	Description	Material	ASTM/AISI*	JIS	
①	Body	Cast Stainless Steel	A351 Gr.CF8	—	
②	Cover	Cast Stainless Steel	A351 Gr.CF8	—	
③	Float	Stainless Steel	AISI316L	SUS316L	
④	Orifice	SS1VA-M	—	—	
		SS1VA-R	NBR**/Stainless Steel	DB2000BF/AISI303	NBR/SUS303
		SS1VG-M	—	—	—
		SS1VG-R	FPM***/Stainless Steel	D2000HK/AISI303	FPM/SUS303
⑤	Orifice Gasket	Fluorine Resin	PTFE	PTFE	
⑥	Screen	Stainless Steel	AISI304	SUS304	
⑦	Cover Gasket	Fluorine Resin	PTFE	PTFE	
⑧	Cover Bolt	Stainless Steel	AISI304	SUS304	
⑨	Nameplate	Stainless Steel	AISI304	SUS304	
⑩	Screw	Stainless Steel	AISI304	SUS304	
⑪	Spring Washer	Stainless Steel	AISI304	SUS304	
⑫	Connector	Stainless Steel	AISI304	SUS304	

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. For SS1VG, consult TLV for use with toxic, flammable or otherwise hazardous gases; DO NOT USE SS1VA for these gases.



* Equivalent ** Nitrile Rubber *** Fluorine Rubber

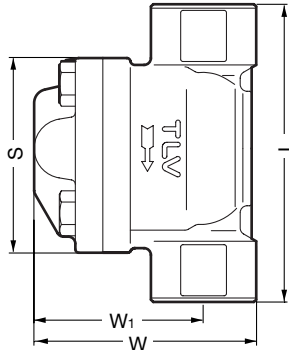
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Dimensions

● SS1VA/SS1VG Screwed



NOTE
Install the shortest possible vertical condensate pipe to the trap to ensure unobstructed condensate flow.

SS1VA/SS1VG Screwed* (in)

Size	L	W	W ₁	S	Weight (lb)
1	5 1/8	3 3/4	2 5/16	3 1/4	4.0

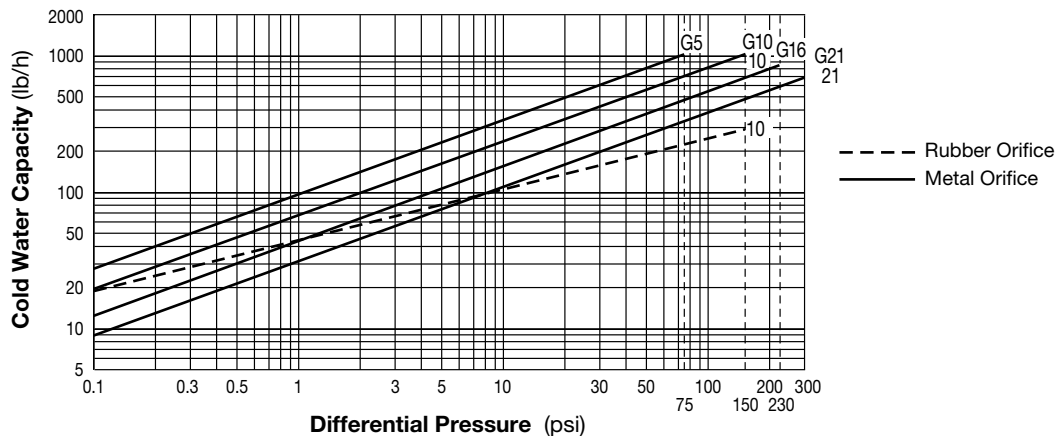
* NPT, other standards available

Leakage Rating

ANSI/FCI Leakage Rating Equivalent

Model	Orifice	Minimum Δ P (psi)	
		0.1	1.5
SS1VA	Rubber	Class 4	Class 6
	Metal	Class 3	
SS1VG	Rubber	Class 4	Class 6
	Metal	Class 3	

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. The chart is applicable to condensate below 212 °F.
4. The discharge capacity is for a liquid with specific gravity of 1.
5. Recommended safety factor: at least 1.5.



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

Capacity Conversion Factors

Specific Gravity (S.G.)	0.95	0.9	0.85	0.8	0.75	0.7	0.65	0.6	0.55	0.5
Conversion Factor	1.03	1.06	1.08	1.12	1.16	1.19	1.24	1.29	1.35	1.41

Before using the capacity chart multiply the required capacity (including safety factor) by the appropriate conversion factor for the specific gravity of the liquid.
Choose from the table above or use the following formula: Conversion factor = $\frac{1}{\sqrt{S.G.}}$

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Manufacturer
TLV CO., LTD.
Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001/ISO 14001

