TLV. FREE FLOAT. DRAIN TRAP MODEL SS1VA

DRAIN TRAP WITH TIGHT SHUT-OFF FOR AIR AND INERT GASES

Benefits

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

- 1. Constant water seal and unique rotational seating design prevent concentrated wear to ensure long life.
- 2. Three-point seating provides a tight seal even under low-load conditions.
- 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.
- 5. Rugged float construction with up to 1740 psig hydraulic shock rating ensures excellent performance of the trap.



Specifications

Model		SS1VA-R (Rubber Orifice)	SS1VA-M (Metal Orifice)				
Connection		Screwed					
Size (in)		1	1				
Orifice No.		10	10, 21				
Maximum Operating Pressure (psig)	PMO*	150	150, 300				
Maximum Differential Pressure (psi)	ΔPMX*	150	150, 300				
Minimum Operating Pressure (psig)		Vacuum					
Maximum Operating Temperature (°F)	TMO	212 428					
Maximum Allowable Pressure (psig)	PMA	30	00				
Maximum Allowable Temperature (°F)	TMA	428					
Applicable Fluids*		Air, Inert Gas					
For specific gravities other than 1.00, use	e table below	C	connections and sizes in bold are stand				

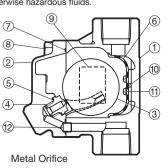
		Specific Gravity											
Model	Orifice	1.00	0.99-0.95	0.94-0.90	0.89-0.85	0.84-0.80	0.79-0.75	0.74-0.70	0.69-0.65	0.64-0.60	0.59-0.55	0.54-0.50	
No.	INO.		Maximum Operating Pressure PMO (psig) & Maximum Differential Pressure ΔPMX (psi)										
SS1VA-R	10	150	150	150	150	148	127	105	83	61	40	18	
SS1VA-M	10 21	150 300	150 300	144 300	128 300	111 290	95 247	79 205	62 162	46 120	30 78	14 35	

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)	SS1VA-R		NBR**/Stainless Steel	D2000BF/AISI303	NBR/SUS303	
4		SS1VA-M	—	—		
(5)	Orifice Gasket	SS1VA-R	Fluorine Resin	PTFE	PTFE	
9	Orif Gas	SS1VA-M	Stainless Steel	AISI316L	SUS316L	
6	Screen		Stainless Steel	AISI304	SUS304	
\overline{O}	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	
1	Spring Washer		Stainless Steel	AISI304	SUS304	
12	Connector		Stainless Steel	AISI304	SUS304	

To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may use for toxic, flammable or otherwise hazardous fluids.



Rubber Orifice



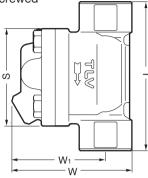
* Equivalent ** Nitrile Rubber

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Dimensions





SS1VA Screwed* (in) Size L W W1 S Weight (lb) 1 5¹/₈ 4¹/₁₆ 3³/₁₆ 3¹/₄ 4.0

* NPT, other standards available

Leakage Rating

Maximum Seat Leakage

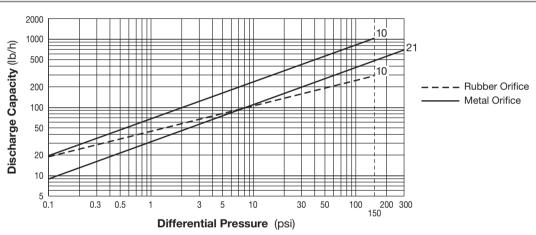
Model	Orifice	Minimum∆P (psi)							
		0.1	1.5						
SS1VA	Rubber	<0.01% of rated valve capacity	<0.15 standard ml/min, <1 bubble/min						
	Metal	<0.1% of rated valve capacity							

NOTE:

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

Discharge Capacity

* Standard milliliters based on 60 °F, 14.73 psi abs



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.

CAUTION DO NOT use this product 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= $\frac{1}{\sqrt{S. G.}}$



DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE. Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY

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SDS A3208-16 Rev. 8/2023 Products for intended use only. Specifications subject to change without notice.

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