FREE FLOAT DRAIN TRAP

MODEL SSIVG STAINLESS STEEL

FREE FLOAT DRAIN TRAP WITH TIGHT SHUT-OFF FOR AIR AND GAS SERVICE

Features

All stainless steel trap, to be installed 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 sealing).
- 3. Precision ground float guarantees superior sealing.
- 4. Built-in screen with large surface area ensures extended trouble-free operation.
- 5. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.



Specifications

Model		SS1VG-M (Metal Orifice)	SS1VG-R (Rubber Orifice)
Connection		Sc	rewed
Size		1/2″, 3	¼″, 1″
Orifice No.		G5, G10, G16, G21	10
Maximum Operating Pressure (barg)	PMO*	5, 10, 16, 21	10
Maximum Differential Pressure (bar)	ΔPMX*	5, 10, 16, 21	10
Maximum Operating Temperature (°C)	TMO	220	150
Minimum Condensate Load for Tight Sea	ling (kg/h)	0.5	0

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 21

Maximum Allowable Temperature (°C) TMA: 220

	Orifice No.	Specific Gravity										
Model		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 (barg) & Maximum Differential Pressure ΔPMX (bar)									
SS1VG-R	10	10.0	9.9	8.9	7.9	6.9	5.9	4.9	3.9	2.8	1.8	0.8
	G5	5.0	4.9	4.4	3.9	3.4	2.9	2.4	1.9	1.4	0.9	0.4
SS1VG-M	G10	10.0	9.9	8.9	7.9	6.9	5.9	4.9	3.9	2.8	1.8	0.8
00170-101	G16	16.0	15.0	13.5	12.0	10.4	8.9	7.4	5.9	4.3	2.8	1.3
	G21	21.0	20.6	18.5	16.4	14.3	12.2	10.1	8.0	5.9	3.8	1.7

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. CONSULT **TLV** for toxic, flammable, or otherwise hazardous gases.

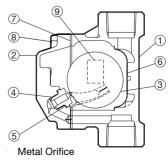
No.	Description	Material*	DIN	ASTM/AISI
1	Body	Cast Stainless Steel SCS13A	1.4308	A351 Gr. CF8
2	Cover	Cast Stainless Steel SCS13A	1.4308	A351 Gr. CF8
3	Float	Stainless Steel SUS316L	1.4404	AISI316L
(4)	Orifice (Metal)	Stainl. Stl./SUS316L+Stellite	1.4404	AISI316L
9	Orifice (Rubber)	Stainl. Steel SUS303 / FPM**	1.4305/FPM	AISI303/D2000HK
5	Orifice Gasket	Fluorine Resin PTFE	PTFE	PTFE
6	Screen	Stainless Steel SUS304	1.4301	AISI304
$\overline{\mathcal{O}}$	Cover Gasket	Fluorine Resin PTFE	PTFE	PTFE
8	Cover Bolt	Stainless Steel SUS304	1.4301	AISI304
9	Nameplate	Stainless Steel SUS304	1.4301	AISI304

* Equivalent materials ** Fluorine Contained Rubber

* For specific gravities other than 1.00, use table below



Rubber Orifice



Copyright © TLV

1 bar = 0.1 MPa

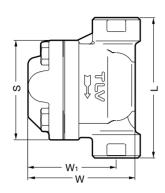
TLV

Consulting & Engineering Service

(mm)

Dimensions

• SS1VG Screwed



SS1VG Screwed*

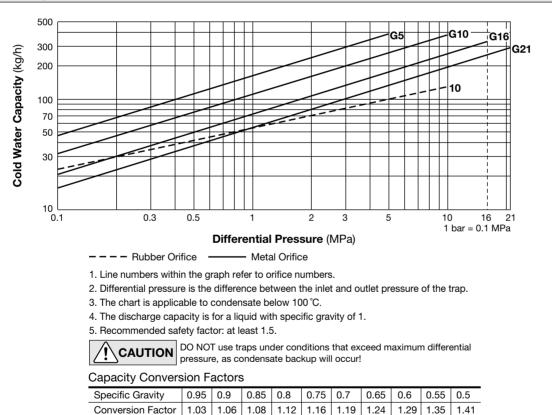
	Size	L	W W1		S	Weight (kg)	
	1/2″	110	91	75	85	1.6	
ĺ	3/4 ″	120				1.7	
	1″	130				1.8	

* BSP DIN 2999, other standards available

NOTE

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

Discharge Capacity



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 = $\frac{1}{\sqrt{S. G.}}$

Copyright © **TLV** (M)

http://www.tlv.com

SDS U3208-18 Rev. 5/2004

ISO 9001/ISO 14001

Specifications subject to change without notice.

Manufacturer

Kakogawa, Japan is approved by LR0A Ltd. to ISO 9001/14001

® CO., LTD.