FREE FLOAT STEAM TRAP

MODEL SS3 STAINLESS STEEL

FREE FLOAT STEAM TRAPS WITH THERMOSTATIC AIR VENTING

Features

Maintenance-free stainless steel steam trap for steam mains and tracer lines.

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, eliminates valve wear and provides long service life.
6. Built-in screen with large area holds back impurities.
7. Optional ceramic fiber insulating cover, clad in stainless steel minimizes energy loss due to radiation.

Specifications

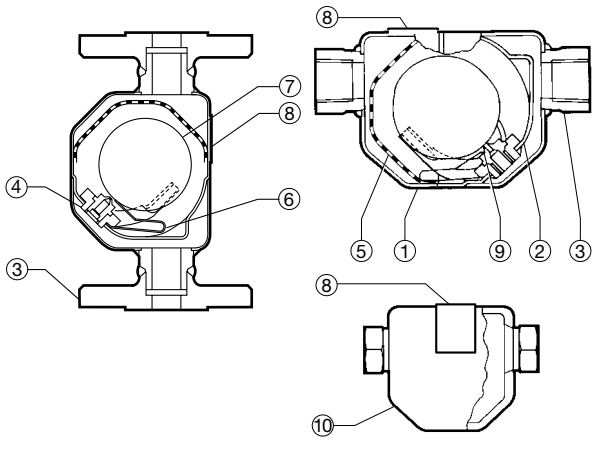
Model	SS3N			SS3V		
Installation	horizontal			vertical		
Connection	Screwed	Socket Welded	Flanged	Screwed	Socket Welded	Flanged
Size	½″, ¾″, 1″	DN 15, 20, 25		½″, ¾″, 1″	DN 15, 20, 25	
Orifice No.	5, 10, 21					
Maximum Operating Pressure (barg) PMO	5, 10, 21					
Maximum Differential Pressure (bar) ΔPMX	5, 10, 21					
Maximum Operating Temperature (°C) TMO	350					

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 21 1 bar = 0.1 MPa
Maximum Allowable Temperature (°C) TMA: 350

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.

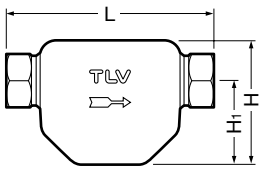
No.	Description	Material	DIN*	ASTM/AISI*
①	Body	Stainless Steel SUS316L	1.4404	AISI316L
②	Inner Cover	Stainless Steel SUS316L	1.4404	AISI316L
③	Socket or Flange	Cast Stainless Steel A351 Gr. CF8	1.4312	—
④	Float Guide	Cast Stainl. Stl. SCS16	1.4435	A351 Gr. CF3M
⑤	Screen	Stainless Steel SUS304	1.4301	AISI304
⑥	Bimetal Strip	Bimetal	—	—
⑦	Float	Stainless Steel SUS316L	1.4404	AISI316L
⑧	Nameplate	Stainless Steel SUS304	1.4301	AISI304
⑨	Orifice	—	—	—
⑩	Insulating Cover**	Ceramic Fiber/Stainl. Stl. SUS304	1.4301	AISI304

* Equivalent materials ** Option

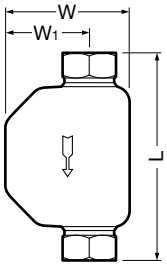


Dimensions

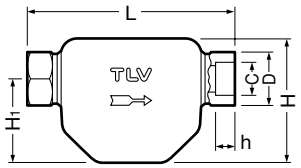
SS3N Screwed

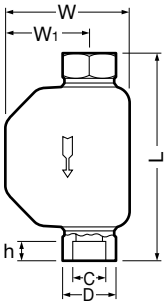


SS3V

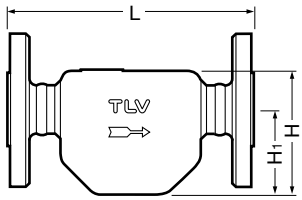


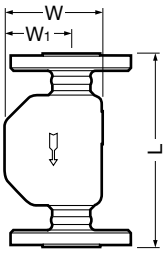
Socket Welded





Flanged





SS3N/SS3V Screwed* (mm)

Size	L	ϕH/W	H1/W1	Weight (kg)
1/2″	127	76	52	0.8
3/4″	154			1.0
1″	165			1.2

* BSP DIN 2999, other standards available

SS3N/SS3V Socket Welded* (mm)

DN	L	ϕH/W	H1/W1	ϕD	ϕC	h	Weight (kg)
15	127	76	52	31	21.70	12	0.8
20	154			37	27.05	14	1.0
25	165			44	33.80		1.2

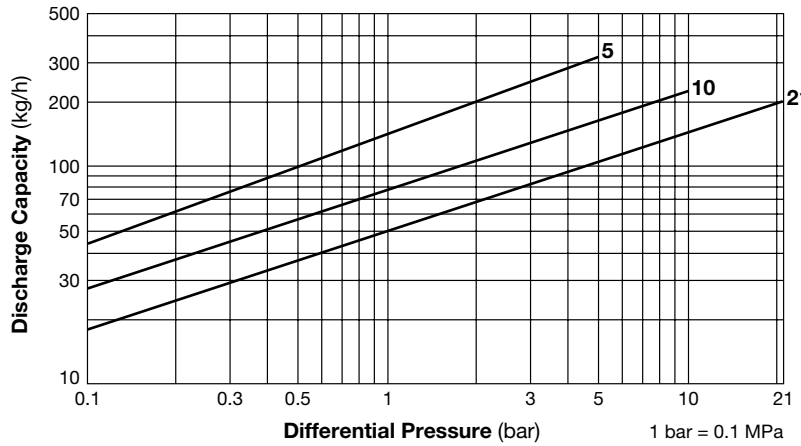
* ASME B16.11, other standards available

SS3N/SS3V Flanged (mm)

DN	L			ϕH/W	H1/W1	Weight* (kg)
	DIN 2501	ASME Class				
	PN25/40	150RF	300RF			
15	150	175	175	76	52	2.4
20		195	195			2.8
25	160	215	215			3.9

Other standards available, but length and weight may vary
* Weight is for DIN PN 25/40

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. Capacities are based on continuous discharge of condensate 6 °C below steam temperature.
4. Recommended safety factor: at least 1.5.

CAUTION

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

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

ISO 9001/ISO 14001