

FREE FLOAT. STEAM TRAP

MODEL SH5VL

HIGH-PRESSURE FREE FLOAT AND THERMOSTATIC STEAM TRAP WITH THREE-POINT SEATING

Benefits

Vertical inline repairable trap with tight shut-off for drainage of superheated or high-pressure steam mains, equipment, and turbines.

- 1. Self-modulating free float provides continuous, smooth, low-velocity condensate discharge.
- Constant water seal and unique rotational seating design prevents concentrated wear to ensure long life.
- 3. Three-point seating ensures steam-tight seal, even under no-load conditions.
- 4. Easy, inline access to internal parts to simplify cleaning and lower maintenance costs.
- Up to 1740 or 2300 psig* hydraulic shock rating ensures excellent resistance of the float to water hammer
- Durable thermostatic air vent for exceptionally fast start-up.
- 7. Built-in screen for extended trouble-free service.
- *Depending on orifice no.



Specifications

Model	SH5VL			
Connection	Screwed	Socket Weld		
Size (in)	3/4	¹/₂ , ³/₄ , 1		
Orifice No.	46,	65		
Maximum Operating Pressure (psig) PMO	650,	925		
Maximum Differential Pressure (psi) ΔPMX	650,	925		
Minimum Operating Pressure (psig)	1	.5		
Maximum Operating Temperature (°F) TMO	80	00		
Maximum Allowable Pressure (psig) PMA	92	25		
Maximum Allowable Temperature (°F) TMA	80	00		

CAUTION

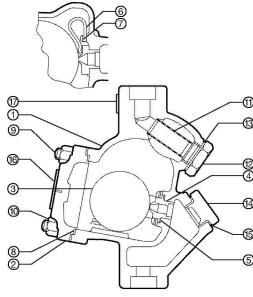
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	ASTM/AISI*	JIS	
1	Body	Cast Steel	A216 Gr.WCB	_	
2	Cover	Carbon Steel	A105	:	
(3)F	Float	Stainless Steel	AISI316L	SUS316L	
(4)R	Orifice	_	_	:	
(5)MR	Orifice Gasket	Graphite/Stainless Steel	- /AI\$I316L	- /SUS316L	
6)R	Air Vent Strip	Bimetal	_	-	
(7)R	Screw & Spring Washer	Stainless Steel	AISI304	SUS304	
® _{MR}	Cover Gasket	Graphite/Stainless Steel	- /AISI316L	-/SUS316L	
9	Cover Bolt	Alloy Steel	A193 Gr.B7	SNB7	
10	Cover Nut	Carbon Steel	AISI1045	S45C	
\mathbb{T}^{R}	Screen	Stainless Steel	AISI430	SUS430	
12	Screen Holder	Stainless Steel	AISI420F2	SUS420F2	
13 ^{MR}	Screen Holder Gasket	Soft Iron	AISI1010	SUYP	
14)	Orifice Plug	Cast Stainless Steel	A743 Gr.CA40	SCS2A	
(15)MR	Orifice Plug Gasket	Soft Iron	AISI1010	SUYP	
16	Nameplate	Stainless Steel	AISI304	SUS304	
17	Up-seal	Aluminum	B209	AIP	

^{*}Equivalent

Replacement kits available: (M) maintenance parts, (R) replacement parts, (F) float

Connections and sizes in bold are standard

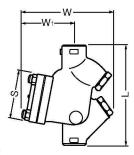




Consulting & Engineering Service

Dimensions

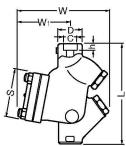
•SH5VL Screwed



SH5VL Size	Screwed*					
	L	W	W 1	S	Weight (lb)	
3/4	8 ¹ / ₁₆	7 ¹ ½16	4 ⁵ ⁄16	4 1/8	15	

^{*} NPT, other standards available

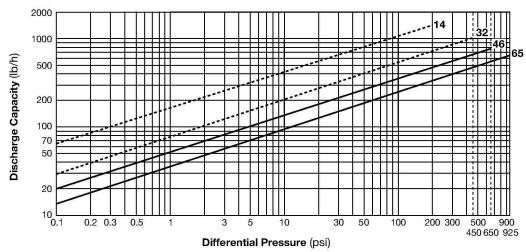
●SH5VL Socket Weld



SH5VL Socket Weld*					(in)			
Size	L,	W	W ₁	S	φD	φC	h	Weight(Ib)
1/2						0.855	1/2	
3/4	8 ¹ /16	7 ¹ ½16	4 ⁵ ⁄16	4 ½	1 ⁷ /8	1.065	9/46	15

1.330

Discharge Capacity



Standard ---- Available on special request

- 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 11 °F below saturated 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!



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.

TLY: CORPORATION

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For Technical Service 1-800 "TLV TRAP"



Manufacturer

ISO 9001/ISO 14001





^{*}ASME B16.11-2005, other standards available