TLV. FREE FLOAT. STEAM TRAP MODEL SH5NL/SH5NH

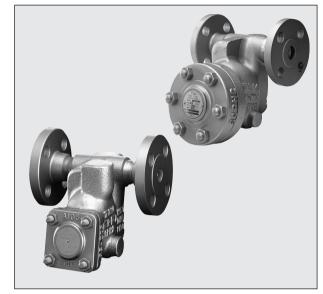
HIGH-PRESSURE FREE FLOAT STEAM TRAP WITH THREE-POINT SEATING AND THERMOSTATIC AIR VENTING

Benefits

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.
- 2. 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.
- Rugged float construction with up to 1740 or 2300 psig* hydraulic shock rating ensures excellent resistance 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.

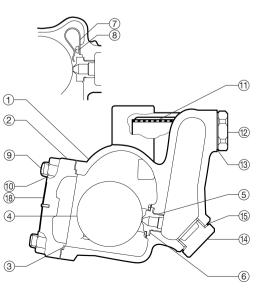
Specifications



Model	SHE	5NL	SH5NH			
Connection	Socket Weld Flanged		Socket Weld Flanged			
Size (in)		1 /2, 3 /4, 1	¹ /2, ³ /4, 1	3/4		
Orifice No.		46,	65	80		
Maximum Operating Pressure (psig)	PMO	650,	925	1150		
Maximum Differential Pressure (psi)	ΔΡΜΧ	650,	925	1150		
Minimum Operating Pressure (psig)		1.	.5	1.5		
Maximum Operating Temperature (°F)	TMO	80	00	800		
Maximum Allowable Pressure (psig)	PMA	92	25	1150		
Maximum Allowable Temperature (°F)	ТМА	80	00	800		
To avoid abnormal ope	aration a	ccidents or serious injury		Connections and size	s in bold are stand	

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.	Descripti	on	Material	ASTM/AISI*	JIS	
1	Body		Cast Steel	A216 Gr.WCB	—	
2	Cover	SH5NL	Carbon Steel	A105	—	
	Cover	SH5NH	Alloy Steel	A182 F11	—	
(3) ^{MR}	Cover Gasket	SH5NL	Graphite/Stainless Steel	-/AISI316L	- /SUS316L	
9	COVEL GASKEL	SH5NH	Graphite/Stainless Steel – /AISI304		- /SUS304	
(4) ^F	Float		Stainless Steel	AISI316L	SUS316L	
(5) ^R	Orifice			_	—	
(6) ^{MR}	Orifice Gasket	SH5NL	Graphite/Stainless Steel	-/AISI316L	- /SUS316L	
0	Office Gasket	SH5NH	Graphite/Stainless Steel	- /AISI316	- /SUS316	
(7) ^r	Air Vent Strip		Bimetal	_	—	
(8) ^R	Screw & Spring	g Washer	Stainless Steel	AISI304	SUS304	
9	Cover Bolt		Alloy Steel	A193 Gr.B7	SNB7	
10	Cover Nut		Carbon Steel	AISI1045	S45C	
¶¶ ^R	Screen		Stainless Steel	AISI430	SUS430	
12	Screen Holder		Cast Stainless Steel	A351 Gr.CF8	—	
13 ^{MR}	Screen Holder	Gasket	Soft Iron AISI1010		SUYP	
14	Orifice Plug		Cast Stainless Steel A351 Gr.C		_	
15 ^{MR}	Orifice Plug G	asket	Soft Iron	AISI1010	—	
16	Flange**		Carbon/Cast Steel***	A105/A216 Gr.WCB	—	
17	Socket**		Forged Steel	AISI1025	S25C	
18	Nameplate		Stainless Steel	AISI304	SUS304	

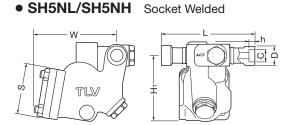


* Equivalent ** Not shown *** Material depends on flange specifications Replacement kits available: (M) maintenance parts, (R) replacement parts, (F) float

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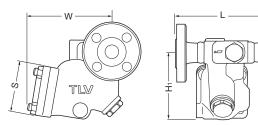
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Dimensions



SH5NL/SH5NH Socket Welded (in											
Model	Size	L	H1*	W*	S	ØD	ØC	h	Weight (lb)		
	1⁄2	7 ⁷ /8	5½	6 ⁷ /8	4 ¹ / ₈	1¼	0.855	1⁄2 9/ ₁₆	22		
SH5NL	3⁄4					1½	1.065				
	1					1 ⁷ /8	1.330				
SH5NH	3⁄4	7 ⁷ /8	6 ⁵ / ₁₆	7½	5 ¹¹ / ₁₆	1½	1.065	⁹ / ₁₆	29		
* Approx.											

• SH5NL/SH5NH Flanged



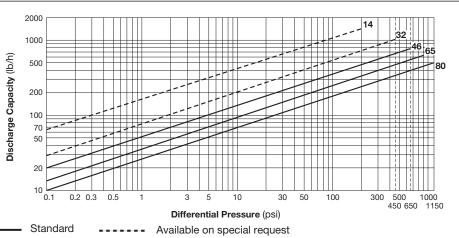
	SH5N	IL/S	SH5NF	Flang	ged					(in)
	Model	Size		H1*	W*	S	Weight**			
			150, 300RF	600RF	900RF	1500RF			3	(lb)
		1⁄2	8	8	8 ³ /8	8 ³ /8	5½	6 ⁷ /8	4 ¹ / ₈	28
	SH5NL	3⁄4	0							30
		1	8	8	9	9				35
	SH5NH	3⁄4	_	8	8 ³ / ₈	8 ³ / ₈	6 ⁵ / ₁₆	7½	5 ¹¹ / ₁₆	36

Other standards available, but length and weight may vary * Approx. ** Weight is for Class 1500RF

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Note: SH5NL models shown. Configuration of SH5NH covers differs slightly.

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 11 °F below saturated steam temperature.
- 4. Recommended safety factor: at least 1.5.

CAUTION 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.

TLV. CORPORATION

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Kakogawa, Japan

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