

FREE FLOATS STEAM TRAP

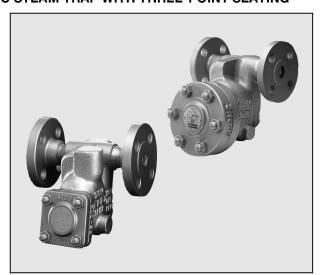
MODEL SH5NL/SH5NH

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

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.
- 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	INL	SH5NH			
Connection	Socket Weld Flanged		Socket Weld	Flanged		
Size (in)	1/2, 3/4, 1	¹ / ₂ , ³ / ₄ , 1	3/4	3/4		
Orifice No.	46,	65	80			
Maximum Operating Pressure (psig)	PMO	650,	925	1150		
Maximum Differential Pressure (psi)	650,	925	1150			
Minimum Operating Pressure (psig)		1.	5	1.5		
Maximum Operating Temperature (°F)	80	0	800			
Maximum Allowable Pressure (psig)	PMA	92	5	1150		
Maximum Allowable Temperature (°F)	TMA	80	0	800		

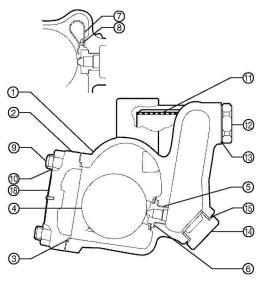
!CAUTION

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.

Connections	and	sizes	in	bold	are	standa	rd

N.L.	Barrelad		N.A. D. DAGGGGGG	A OTA 4 / A I O I *	
No.	Description		Material	ASTM/AISI*	JIS
(1)	Body		Cast Steel	A216 Gr.WCB	=
(2)	Cover	SH5NL	Carbon Steel	A105	-
w)	Oovei	SH5NH	Alloy Steel	A182F11	_
(3)MR	Cover Gasket	SH5NL	Graphite/Stainless Steel	-/AISI316L	-/SUS316L
9	Cover Gasket	SH5NH	Graphite/Stainless Steel	-/AISI304	-/SUS304
4 F	Float		Stainless Steel	AISI316L	SUS316L
(5)R	Orifice		1		1
(6)MR	Orifice Gasket	SH5NL	Graphite/Stainless Steel	-/AISI316L	-/SUS316L
0	Office Casket	SH5NH	Graphite/Stainless Steel	-/AISI316	-/SUS316
(7)R	Air Vent Strip		Bimetal		_
8 ^R	Screw & Spring Washer		Stainless Steel	AI\$I304	SUS304
9	Cover Bolt		Alloy Steel	A193 Gr.B7	SNB7
10	Cover Nut		Carbon Steel	AISI1045	S45C
11)R	Screen		Stainless Steel	AISI430	SUS430
12	Screen Holder		Cast Stainless Steel	A743 Gr.CA40	SCS2A
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	
16	Flange**		Carbon/Cast Steel***	A105/216 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

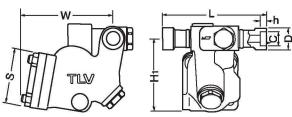




Consulting & Engineering Service

Dimensions

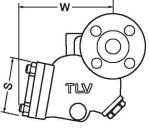
●SH5NL/SH5NH Socket Weld

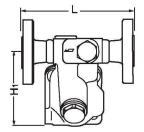


Flanged

SH5NL/SH5NH Socket Weld (in									
Model	Size	L	Hı	W	S	φD	φC	h	Weight (lb)
	1/2					1 5/16	7/8	1/2	
SH5NL	3/4	71/8	57/16	67/8	41/8	1 ⁹ /16	1 1/16	9/16	22
	1					1 ¹⁵ /16	1 ³ / ₈	716	
SH5NH	3/4	71/8	63/16	75/16	5 ¹ / ₁₆	1 9/16	1 ¹ /16	9/16	29

●SH5NL/SH5NH





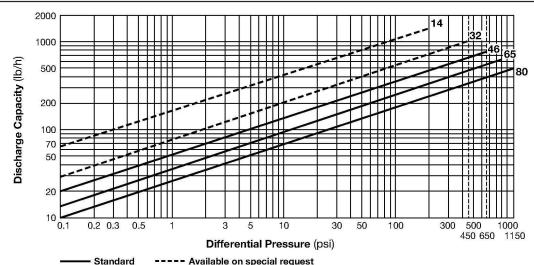
Note: SH5NL models shown. Configuration of SH5NH cover differs slightly.

SH5NL/SH5NH Flanged

Model	Size		1	3		Ŧ	V	Ø	Weight* (lb)
		Conne	ects to	ASME	Class				
		150, 300RF	600RF	900RF	1500RF				
SH5NL	¹ / ₂ ³ / ₄	_	8	8%	_	5 ⁷ /16	67/8	41/8	28
									30
	1								35
SH5NH	3/4		8	8%	8%	$6^{3}/_{16}$	75/16	5 ¹ / ₁₆	36

Other standards available, but length and weight may vary *Weight is for Class 900RF

Discharge Capacity



- ---- 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





