# TLV. FREE FLOAT. STEAM TRAP MODEL SS5

STAINLESS STEEL FREE FLOAT STEAM TRAP WITH THREE-POINT SEATING AND THERMOSTATIC AIR VENTING

#### **Benefits**

# Maintenance-free stainless steel steam trap for steam mains, tracer lines and small-to-medium process applications.

- 1. All-welded, maintenance-free construction.
- 2. Free float's unique rotational seating design prevents concentrated wear to ensure long life.
- 3. Precision-ground float, three-point seating and constant water seal ensure steam-tight seal, even under no-load conditions.
- 4. Rugged float construction with up to 1740 or 2300 psig\* hydraulic shock rating ensures excellent resistance to water hammer.
- 5. Durable thermostatic air vent automatically vents air for exceptional start-up and performance.
- 6. Extremely soft near-to-steam temperature discharge for safety and environmental considerations.
- 7. Built-in screen for extended trouble-free service.

\* Depending on orifice number



### **Specifications**

Model	SS5N	SS5V	SS5NH		SS5VH		
Installation	Horizontal	Vertical	Horizontal Vertica		tical		
Connection	Screwed	Socket Weld	Screwed	Socket Weld	Screwed	Socket Weld	
Size (in)	<sup>1</sup> / <sub>2</sub> , <sup>3</sup> / <sub>4</sub> , 1	<sup>1</sup> / <sub>2</sub> , <sup>3</sup> / <sub>4</sub> , 1	<sup>1</sup> / <sub>2</sub> , <b>3/</b> <sub>4</sub> , 1		1/2 ,	<sup>1</sup> / <sub>2</sub> , <sup>3</sup> / <sub>4</sub> , 1	
Orifice No.	10,	32	46				
Maximum Operating Pressure (psig) PMO	150	, 450	650				
Maximum Differential Pressure (psi) ΔPMX	150	, 450	650				
Minimum Operating Pressure (psig)	1	.5	1.5				
Maximum Operating Temperature (°F) TMO	8	00	800				
Maximum Allowable Pressure (psig) PMA	6	50	650				
Maximum Allowable Temperature (°F) TMA	8	00	800				

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	Stainless Steel	A240 Type 316L	—
2	Inner Cover	Stainless Steel	A240 Type 316L	—
3	Socket	Cast Stainl. Stl.	A351 Gr.CF8	—
4	Float Guide	Cast Stainl. Stl.	A351 Gr.CF3M	—
5	Screen	Stainless Steel	AISI304*	SUS304
6	Air Vent Strip	Bimetal	_	—
$\overline{0}$	Float	Stainless Steel	AISI316L*	SUS316L
8	Nameplate	Stainless Steel	AISI304*	SUS304
9	Orifice			





Connections and sizes in bold are standard

\* Equivalent

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#### **Dimensions**

SS5N/SS5NH Screwed





SS5N/S	(ir				
Model	Size	L	φH/W	H1/W1	Weight (lb
SS5N SS5V	1/2	6 <sup>1</sup> /8		2 <sup>13</sup> / <sub>16</sub>	3.1
	3/4	7 <sup>3</sup> / <sub>16</sub>	4 <sup>1</sup> /8		3.5
	1	7 <sup>5</sup> /8			4.0
SS5NH SS5VH	1/2	6 <sup>5</sup> / <sub>16</sub>		27/8	3.3
	3/4	7 <sup>3</sup> /8	4 <sup>1</sup> / <sub>4</sub>		3.7
	1	713/16			4.2

\* NPT\_other\_standards\_available



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SS5N/SS5NH/SS5V/SS5VH Socket Weld*						(in)		
Model	Size	L	ΦH/W	H1/W1	φD	φC	h	Weight (lb)
SS5NH SS5VH	1/2	6 <sup>5/</sup> 16	4 <sup>1</sup> / <sub>4</sub>	27/8	<b>1</b> <sup>3</sup> / <sub>16</sub>	0.855	1/2	3.3
	3/4	7 <sup>3</sup> /8			<b>1</b> <sup>7</sup> / <sub>16</sub>	1.065	9/	3.7
	1	7 <sup>13</sup> / <sub>16</sub>			<b>1</b> 3/4	1.330	7/16	4.2

\* ASME B16.11-2005, other standards available

### **Discharge Capacity**



1 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.

Member of

FC/

Fluid Controls Insti-

## TLV: CORPORATION

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is approved by LRQA Ltd. to ISO 9001/14001

Specifications subject to change without notice.

Products for intended use only.

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