



# FREE FLOAT<sup>®</sup> STEAM TRAP

## MODEL SS5-P Clean Steam Trap

### STAINLESS STEEL FREE FLOAT STEAM TRAP FOR PURE AND CLEAN STEAM SYSTEMS

#### Benefits

**Free float steam trap recommended for use in reactors, fermenters and sterilizers in the chemical, pharmaceutical, food and beverage services.**

1. Virtually crevice-free design with drain hole allows for condensate drainage without pooling, minimizing the possibility of bacteria build-up.
2. Internal buff-polishing with an additional interior and exterior electro-polish option to  $0.4\mu\text{m}$  (16 micro-inch) Ra for improved resistance to bacterial growth.
3. Self-modulating free float provides continuous, smooth, low-velocity discharge as process loads vary.
4. Maintainable design lowers cleaning costs.
5. Only one moving part, the free float, eliminates valve wear and provides long service life.
6. Up to 1740 psig hydraulic shock rating ensures excellent durability of the float.



#### Specifications

Model		SS5-P*
Connection**		<b>Clamp End</b>
Size (in)		<b>1, 1½</b>
Maximum Operating Pressure (psig) PMO		85
Maximum Differential Pressure (psi) ΔPMX		85
Minimum Operating Pressure		Vacuum
Maximum Operating Temperature (°F) TMO		329
Maximum Allowable Pressure (psig) PMA		150
Maximum Allowable Temperature (°F) TMA		365
Finishing (Internal/External)*		0.8μm (32 micro-inch) Ra buff-polished / Bead-blasted and electro-polished

\* SS5-EP with  $0.4\mu\text{m}$  (16 micro-inch) Ra internal and external electro-polishing available on request

**Connections and sizes in bold are standard**

\*\* Tube End connections available on request



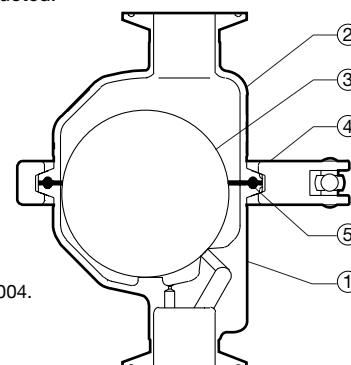
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	ASTM/AISI	JIS
①	Body	Cast Stainless Steel	A351 Gr.CF3M	—
②	Cover	Cast Stainless Steel	A351 Gr.CF3M	—
③	Float	Stainless Steel	AISI316L*	SUS316L
④	Body Clamp	Cast Stainless Steel	A351 Gr.CF8	—
⑤	Clamp Gasket**	High-performance Fluorine Resin	—	—

\* Equivalent

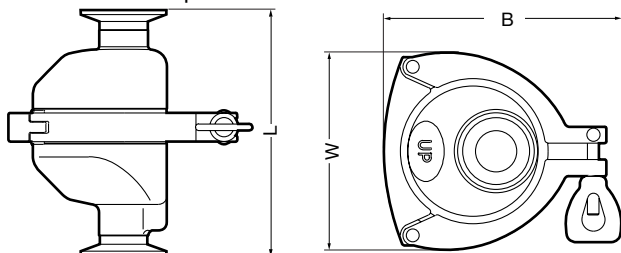
\*\* Clamp gasket is GYLON BIO-PRO; complies with FDA 21 CFR 177. 1550, USP Class VI and EC 1935/2004. GYLON BIO-PRO is a registered trademark of Garlock GmbH.

Material certificates to ISO10474 2.2 or 3.1.B available for major components, contact TLV for details



## Dimensions

### ● SS5-P Clamp End



### SS5-P Clamp End\*

(in)

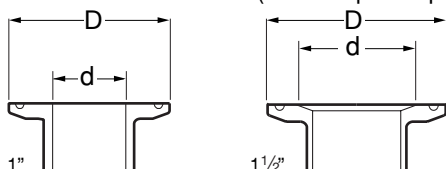
Size	L	W**	B**	φD	φd	Weight (lb)
1	5 3/4	4 1/2	5 1/2	2	7/8	3.8
1 1/2					1 3/8	4.0

\* ASME-BPE (Tri-Clamp compatible)

\*\* Approximate dimension

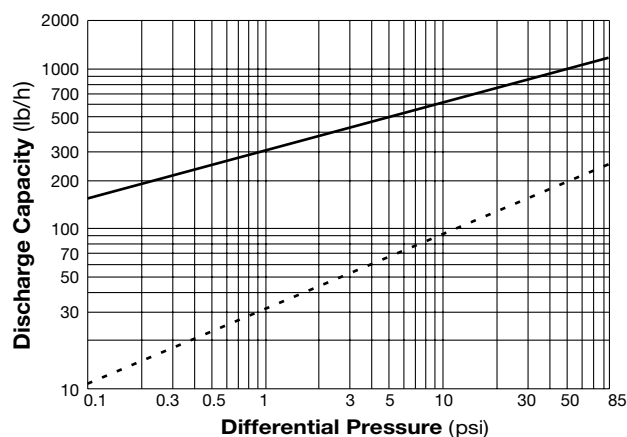
### ● SS5-P Clamp End Connections

ASME-BPE (Tri-Clamp Compatible)



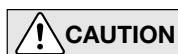
Tri-Clamp is a registered trademark of Alfa Laval Corporate AB.

## Discharge Capacity



— : Maximum capacity of SS5-P  
 - - - : Minimum amount of condensate required to prevent steam discharge

1. Differential pressure is the difference between the inlet and outlet pressure of the trap.
2. Capacities are based on continuous discharge of condensate 11 °F below saturated steam temperature.
3. Recommended safety factor: at least 1.5.



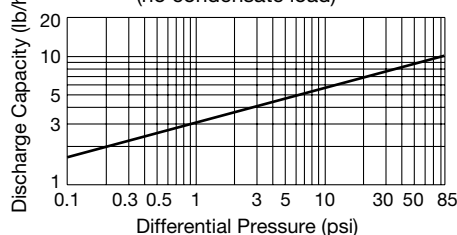
DO NOT use this product under conditions that exceed maximum differential pressure, as condensate backup will occur!



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.

The SS5-P **Clean Steam Trap** has a small built-in drain hole to ensure no condensate remains in the trap after operation. Therefore, a minimum condensate load is required during operation to prevent any steam discharge. The chart below shows the maximum steam discharge through the drain hole under no condensate load conditions.

### Max. Steam Discharge Through Drain Hole (no condensate load)



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For Technical Service 1-800 "TLV TRAP"



Manufacturer

**TLV CO., LTD.**

Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001  
ISO 14001
