

FREE FLOAT® STEAM TRAP

MODEL SS3-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.

- 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 μ 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.
- Only one moving part, the free float, prevents concentrated wear and provides long service life.
- Up to 1740 psig hydraulic shock rating ensures excellent durability of the float.



Specifications

Model		SS3-E*	SS3-P	SS3-EP*		
Connection		Clamp End				
Size (in)		1/2 , 3/4				
Maximum Operating Pressure (psig) PMO		85				
Maximum Differential Pressure (psi) PMX		85				
Minimum Operating Pressure		Vacuum				
Maximum Operating Temperature (°	F) TMO	329				
Maximum Allowable Pressure (psig) PMA		150				
Maximum Allowable Temperature (°	F) TMA	365				
Clamp type		3-piece (buff-polished)				
Finishing**	Internal	25 μm Ra (1000 micro-inch)	0.8 µm Ra (32 micro-inch) buff-polished	Buff-polished then		
Fillistility	External	electro-polished	25 μm Ra (1000 micro-inch) electro-polished	0.4 μm Ra (16 micro-inch) electro-polished		

^{*} Option ** Treated base surfaces are lost-wax cast

SS3-P is a non-standard product, consult TLV for delivery time required.

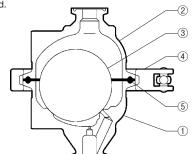


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

NIa	Description	Material	ASTM/AISI	110
No.	Description	Materiai	ASTIM/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)	Cover Gasket**	High-performance Fluorine Resin	_	_

^{*} Equivalent

Material certificates to ISO 10474 2.2 or 3.1B available for major components, contact TLV for details.



^{**} Cover 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.



Consulting · Engineering · Services

Dimensions

• SS3-P Clamp End

ASME-BPE (Tri-Clamp Compatible)

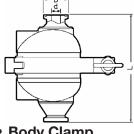
ISO 2852 Clamp / ISO 2037 Tube

Size L vv Β φυ φυ (lb)	333-P Clamp End"							
1/2 41/2 41/2 415/6 1(111/2) 3/8(19/32) 2.9 (3	Size	L	W**	B**	φD	φd	Weight (lb)	
3/4 7/8 7/8 7/16 1(1/32) 5/8(3/4) 2.3 (3.		41/8	4 1/8	4 ¹⁵ ⁄ ₁₆	1(111/32)		2.9 (3.1)	

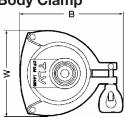
* ASME-BPE (Tri-Clamp compatible) or ISO 2852 Clamp / ISO 2037 Tube

** Approximate dimension

() ISO 2852 Clamp / ISO 2037 Tube

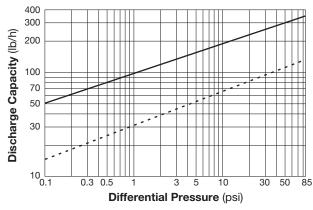


Body Clamp



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

Discharge Capacity



- -: Maximum capacity of SS3-P
- - : Minimum amount of condensate required to prevent steam discharge
- 1. Differential pressure is the difference between the inlet and outlet pressure
- 2. Capacities are based on continuous discharge of condensate 11 °F below saturated steam temperature.
- 3. Recommended safety factor: at least 1.5.



CAUTION

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

(lp/h) 5 Discharge Amount

3 5

Differential Pressure (psi)

10

Max. Steam Discharge Through Drain Hole

(no condensate load)

The SS3-P Clean Steam Trap has a small built-in

drain hole to ensure no condensate remains in the

shows the maximum steam discharge through the drain hole under no condensate load conditions.

condensate load is required during operation to prevent any steam discharge. The chart below

trap after operation. Therefore, a minimum

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

0.1

0.3 0.5

TLV: CORPORATION

13901 South Lakes Drive, Charlotte, NC 28273-6790 Tel: 704-597-9070 Fax: 704-583-1610 E-mail: tlv@tlvengineering.com https://www.tlv.com For Technical Service 1-800 "TLV TRAP"



Manufacturer Kakogawa, Japan is approved by LRQA Ltd. to ISO 9001/14001

ISO 14001 LRQA

ISO 9001

30 50 85