

FREE FLOAT STEAM TRAP

MODEL SS3-P Clean Steam Trap

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

Features

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
- 2. Internal buff-polishing with an additional interior and exterior electro-polish option to $0.4\mu m$ 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, prevents concentrated wear and provides long service life.



Specifications

Model		SS3-E*	SS3-P	SS3-EP*		
Connection		Clamp End				
Size		15, 20 mm (ISO) 1/2",3/4" (ASME-BPE)				
Maximum Operating Pressure (MPaG) PMO		0.6				
Maximum Differential Pressure (MPa) ΔPMX		0.6				
Maximum Operating Temperature (°C) TMO		165				
Clamp type		3-piece (buff-polished)				
Finishing**	Internal	25μm Ra electro-polished	$0.8 \mu m$ Ra buff-polished	Buff-polished then 0.4 μm Ra electro-polished		
Filliotility	External	25μm na electro-polistied	25μ m Ra electro-polished			

Option ** Treated base surfaces are lost-wax cast

1 MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 1.0 Maximum Allowable Temperature (°C) TMA: 185

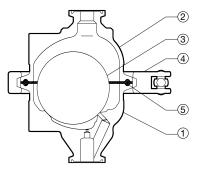


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	JIS	ASTM/AISI	
1	Body	Cast Stainless Steel	_	A351 Gr.CF3M	
2	Cover	Cast Stainless Steel	_	A351 Gr.CF3M	
3	Float	Stainless Steel	SUS316L	AISI316L*	
4	Body Clamp	Cast Stainless Steel	_	A351 Gr.CF8	
<u></u>	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 EN 1935. GYLON BIO-PRO is a registered trademark of Garlock GmbH.

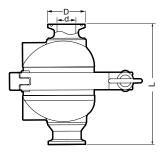


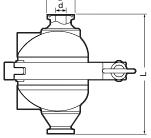
Consulting & Engineering Service

Dimensions

● SS3-P Clamp End

ISO 2852 Clamp / ISO 2037 Tube ASME-BPE (Tri-Clamp Compatible)

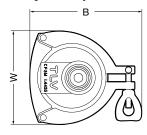




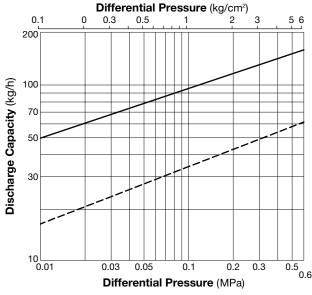
SS3-P Clamp End*								
	Size	L	W**	B**	φD	∮ d	Weight (kg)	
	15 (½")	105	105	125	34 (25)	15.2 (9.4)	1.4 (1.3)	
	20 (3/4")	103	103	123		19.3 (15.75)		

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

Body Clamp

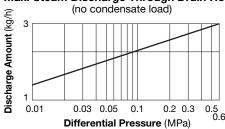


Discharge Capacity



The SS3-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



- : Maximum capacity of SS3-P
- - : Minimum amount of condensate required to prevent steam discharge
- Differential pressure is the difference between the inlet and outlet pressure of the trap.
 Capacities are based on continuous discharge of condensate 6°C below saturated steam temperature.

3. Recommended safety factor: at least 1.5.



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

Manufacturer







ISO 9001/ISO 14001

^{**} Approximate dimensions

⁽⁾ ASME-BPE (Tri-Clamp compatible)