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 build-up.
- 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

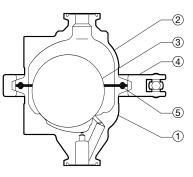
Model		SS3-E*	SS3-P	SS3-EP*		
Connection		Clamp End				
Size		15, 20 mm (ISO) 1/2", 3/4" (ASME-BPE)				
Maximum Operating Pressure (MPaG) PMO		0.6				
Maximum Differential Pressure (MPa) ΔPMX		0.6				
Maximum Operating Temperature (°C) TMO		165				
Clamp type		3-piece (buff-polished)				
Finishing**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

Option ** Treated base surfaces are lost-wax cast

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. CAUTION 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
5	Cover Gasket**	High-performance Fluorine Resin	_	-



Equivalent

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

1 MPa = 10.197 kg/cm²

TLV.

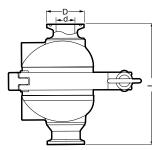
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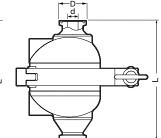
(mm)

Dimensions

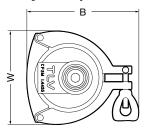
• SS3-P Clamp End

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





Body Clamp



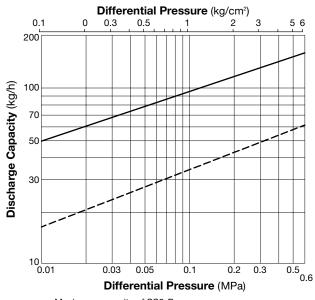
SS3-P Clamp End*

Size	L	W**	B**	φD	¢d	Weight (kg)
15 (1⁄2")	105	105	125	34 (25)	15.2 (9.4)	1.4 (1.3)
20 (3⁄4")	105	105	125		19.3 (15.75)	

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

() ASME-BPE (Tri-Clamp compatible)

Discharge Capacity

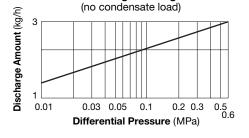


condensate load is required during operation to prevent any steam discharge. The chart below shows the maximum steam discharge through the drain hole under no condensate load conditions. Max. Steam Discharge Through Drain Hole

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



: 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! T

> Manufacturer ISO 9001 CO., LTD. Kakogawa, Japan approved by LRQA Ltd. to ISO 9001/1400



http://www.tlv.com

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Products for intended use only. Specifications subject to change without notice.