

FREE FLOAT[®] STEAM TRAP

MODEL **SS5-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 $\mu\text{m Ra}$ 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, eliminates valve wear and provides long service life.



Specifications

Model	
Connection**	Clamp End
Size	" / "
Maximum Operating Pressure (barg)	
Maximum Differential Pressure (bar) Δ	
Maximum Operating Temperature (°C)	
Finishing (Internal/External)*	$\mu\text{m Ra}$ buff-polished / Bead-blasted and electro-polished

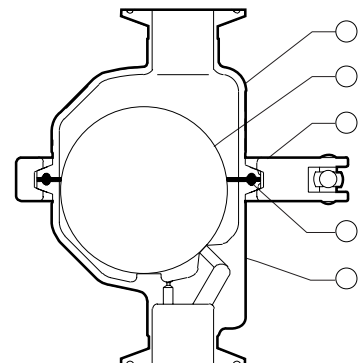
* SS5-EP with $0.4\mu\text{m Ra}$ internal and external electro-polishing available on request ** Tube End connections available on request 1 bar = 0.1 MPa
NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 10
 Maximum Allowable Temperature (°C) TMA: 185

CAUTION 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.

	Description	Material		
○	Body	Cast Stainless Steel A351 Gr.CF3M		
○	Cover	Cast Stainless Steel A351 Gr.CF3M		
○	Float	Stainless Steel SUS316L		
○	Body Clamp	Cast Stainless Steel A351 Gr.CF8		
○	Clamp Gasket**	High-performance Fluorine Resin		

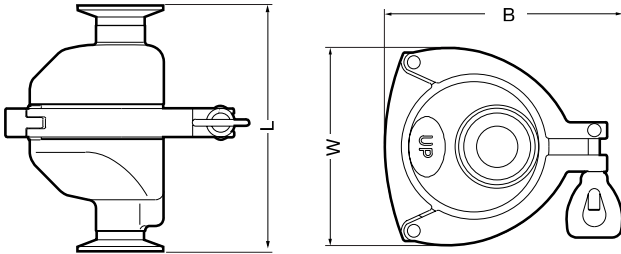
* Equivalent materials

** Clamp 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. 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*

(mm)

DN	L	W**	B**	φD	φd	Weight (kg)
25 (1")	145	115	140	50.5	22.6 (22.1)	1.7
38 (1½")					35.6 (34.8)	1.8

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

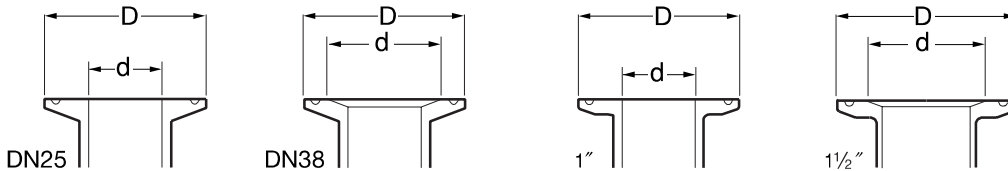
** Approximate dimensions

() ASME-BPE (Tri-Clamp compatible)

● SS5-P Clamp End Connections

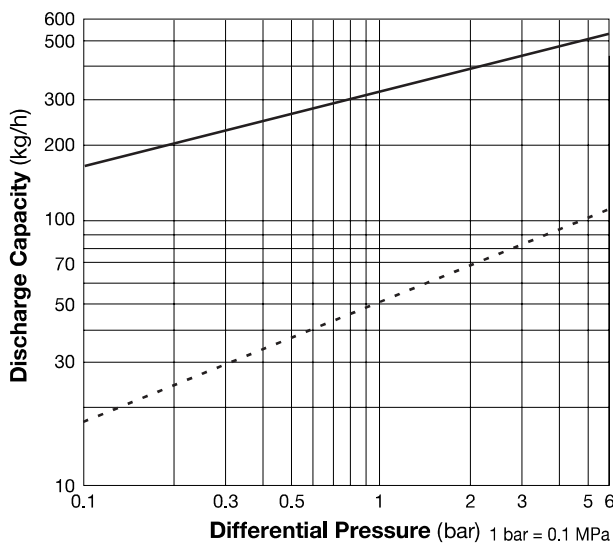
ISO 2852 Clamp / ISO 2037 Tube

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 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!

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)

