

Clean Steam Traps

LV6 Series SS3-P/SS5-P



Clean Steam Trap

All Stainless Steel Construction

■ Low-quality stainless steel may corrode when exposed to water with even low ionic content. To solve this problem, the LV6 series uses AISI316L, and the SS3-P/SS5-P body and cover are made of A351 Gr. CF3M with an SUS316L float.

Prevents Condensate Accumulation

- Smooth, virtually crevice-free interior allows for complete condensate drainage.
- The SS3-P/SS5-P has a small drain hole to prevent condensate pooling.







Drain Hole







LV6 Series

Easy Disassembly and Cleaning

- Consists of only 5 simple components held together by easily removable clamps.
- Clamp pipe connections enable the trap to be easily removed from the pipeline.

Prevents Bacterial Contamination



- Simply constructed clamp has few projections.
- Sanitary highperformance fluorine resin gasket complies with FDA 21 CFR 177, USP Class VI and EN 1935.



Ferrule clamp joint for clean steam. in accordance with ISO and ASME-BPE (Tri-Clamp compatible) standards, is used for connection to piping. Tube end connections are also available.



- Uniquely designed free-draining X-element* case with large openings allows for complete fluid drainage and easy cleaning. It is electropolished for the LV6-P/ LV6-HP and the optional LV6-EP/LV6-HE.
- *LV6-CE/LV6-HC is equipped with a standard X-element.



■ The SS3-P and SS5-P free floats have an internal 0.8 µm Ra buff polish.

(The optional SS3-EP and SS5-EP have a 0.4 µm Ra buff and electro-polish [internal and external])

EAN STEAM TRAP

Thermostatic Clean Steam Trap Compact LV6 Series

What is the X-element?

■ A multi-diaphragm valve mechanism filled with a thermoliquid which opens and closes the valve at approximately 3.6 °F less than saturated steam temperature.



Fail-open Safety Mechanism

■ In the event of a damaged diaphragm, the LV6 is not blocked, but remains open, ensuring the operation of the steam using equipment.

Automatic Air Venting

- The LV6 rapidly vents low temperature air and condensate at system start up, therefore reducing overall start-up time and improving productivity.
- In addition to rapid air venting at start up, air at near-to-steam temperature can be almost completely vented during operation, making the LV6 suitable for batch processes.

Free Float Clean Steam Trap Continuous Discharge SS3-P/SS5-P

Continuous Discharge of Condensate

■ The self-modulating free float automatically adjusts to the level of condensate allowing continuous discharge. There is no condensate backup or accumulation in the equipment.



High Durability and Long Life

■ The free float with simple construction and only one moving part, without levers or hinges, has less failure. Valve wear is distributed across the entire float surface, greatly improving valve service life.

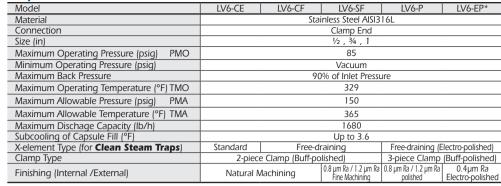
Suitable for Condensate Recovery

■ Even with a back pressure of 99% of operating steam pressure, the free float operates without fail. The SS3-P and SS5-P are therefore suitable for condensate recovery in closed systems.



LV6 Series

Specifications



Model	LV6-HC	LV6-HS	LV6-HP	LV6-HE*			
Material	Stainless Steel AISI316L						
Connection	Clamp End / Tube End						
Size (in)	1/2 , 3/4 , 1						
Maximum Operating Pressure (psig) PMO	85						
Minimum Operating Pressure (psig)	Vacuum						
Maximum Back Pressure	90% of Inlet Pressure						
Maximum Operating Temperature (°F) TMO	329						
Maximum Allowable Pressure (psig) PMA	150						
Maximum Allowable Temperature (°F) TMA	365						
Maximum Dischage Capacity (lb/h)	2250						
Subcooling of Capsule Fill (°F)	Up to 3.6						
X-element Type (for Clean Steam Traps)	Standard	Free-draining Free-draining (Electro-polishe		Electro-polished)			
Clamp Type	2-piece Clamp (Buff-polished)		3-piece Clamp (Buff-polished)				
Finishing (Internal /External)	Natural Machining	0.8 µm Ra / 1.2 µm Ra Fine Machining	0.8 μm Ra / 1.2 μm Ra Buff-polished	0.4µm Ra Electro-polished			
*Option							

^{*}Option



SS3-P/SS5-P

Specifications

Model		SS3-E 1)	SS3-P	SS3-EP 1)	SS5-P	SS5-EP 1)	
Material		Body: Cast Stainless Steel A351 Gr. CF3M Float: Stainless Steel SUS316L (AISI316L)					
Connection 2)		Clamp End 3)					
Size (in)		1/2 , 3/4			1, 11/2		
Maximum Operating Pressure	(psig) PMO	85					
Maximum Differential Pressure	85						
Maximum Operating Tempera	329						
Maximum Allowable Pressure	150						
Maximum Allowable Temperat	365						
Maximum Dischage Capacity (lb/h)		350			1160		
Clamp Type	3-Piece Clamp						
Finishing ⁴⁾	Internal	25 µm Ra Electro-polished	0.8 µm Ra Buff-polished	Buff-polished then 0.4 µm Ra Electro-polished	0.8 µm Ra / 1.2 µm Ra Buff-polished	Buff-polished then 0.4 µm Ra Electro-polished	
	External		25 µm Ra Electro-polished		Bead blasted and Electro-polished		



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.

Full product details (sizes, pressures, capacities and materials, etc.) are included in the individual specification data sheets (SDS). Tri-Clamp is a registered trademark of Alfa Laval Corporate AB.

TLV Stainless Steel Product Series







SS1VA













CKF3M



Contact TLV for more information on these and other stainless steel products.



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.

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Manufacturer



ISO 14001 LRQA

ISO 9001

is approved by LROA Ltd. to ISO 9001/14001