



# BALANCED PRESSURE THERMOSTATIC STEAM TRAP

## MODEL LV6 Clean Steam Trap

### THERMOSTATIC STEAM TRAP FOR PURE AND CLEAN STEAM SYSTEMS

#### Benefits

**Balanced pressure thermostatic steam trap recommended for use in reactors, sterilizers and distribution lines in clean and pure steam systems.**

1. Free-draining, virtually crevice-free design minimizes the possibility of bacteria buildup.
2. Patented "fail open" feature minimizes interruption of critical operation.
3. Large orifice provides high air venting capacity for rapid start-up and resists plugging to ensure continuous operation.
4. Compact for easy installation.
5. Maintainable design lowers cleaning costs.
6. LV6P polished to 0.8  $\mu\text{m}$  (20 micro-inch) Ra inside and 1.2  $\mu\text{m}$  (30 micro-inch) Ra outside, with an electro-polish option to further resist bacterial growth.



**CAUTION** 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.

#### Specifications

Model	LV6-CE	LV6-SF	LV6-P*
Connection		Clamp End	
Size (in)		<b>1/2, 3/4, 1</b>	
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	
Subcooling of X-element Fill (°F)		Up to 11	
X-element type (for <b>Clean Steam Traps</b> )	Standard	Free-draining	Free-draining (electro-polished)
Clamp type	2-Piece Clamp (buff-polished)		3-Piece Clamp (buff-polished)
Finishing (Internal / External)*	Natural Machining	0.8 $\mu\text{m}$ Ra/1.2 $\mu\text{m}$ Ra (20 micro-inch/30 micro-inch) Fine Machining	0.8 $\mu\text{m}$ Ra/1.2 $\mu\text{m}$ Ra (20 micro-inch/30 micro-inch) Polish

\* LV6-EP with 0.4  $\mu\text{m}$  (10 micro-inch) Ra electro-polishing available on request

Connections and sizes in bold are standard

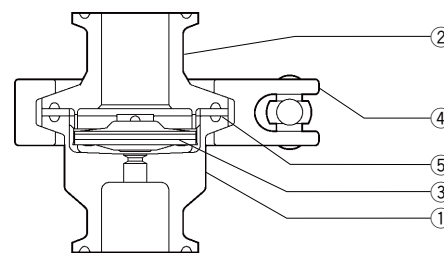


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	ASTM/AISI	JIS
①	Lower Body	Stainless Steel	AISI316L	—
②	Upper Body	Stainless Steel	AISI316L	—
③ <sup>R</sup>	X-element	Stainless Steel	AISI316L*	SUS316L
④	Body Clamp	Cast Stainless Steel	A351 Gr.CF8	—
⑤ <sup>MR</sup>	Body Gasket**	Fluorine Resin/Ethylene Rubber	PTFE/D2000CA	PTFE/EPDM

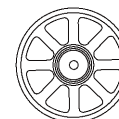
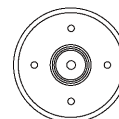
\* Equivalent \*\* Body gasket is GYLON BIO-PRO; complies with FDA 21 CFR 177. 1550, USP Class VI and EN 1935.

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



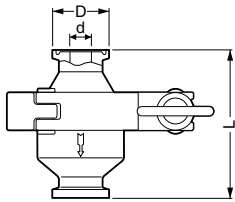
Standard X-element

Free-draining X-element



**Dimensions**

- **LV6-CE/LV6-SF/LV6-P** Clamp End  
ASME-BPE (Tri-Clamp Compatible)

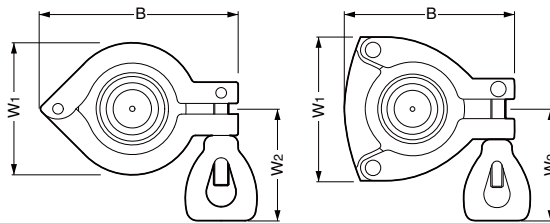


**LV6-CE/LV6-SF/LV6-P** Clamp End\* (in)

Size	L	φD	φd	Weight (lb)
1/2	2 9/16	1	3/8	1.1
3/4			5/8	1.2
1		2	7/8	1.3

\* ASME-BPE (Tri-Clamp compatible), other standards available

- **Body Clamp**



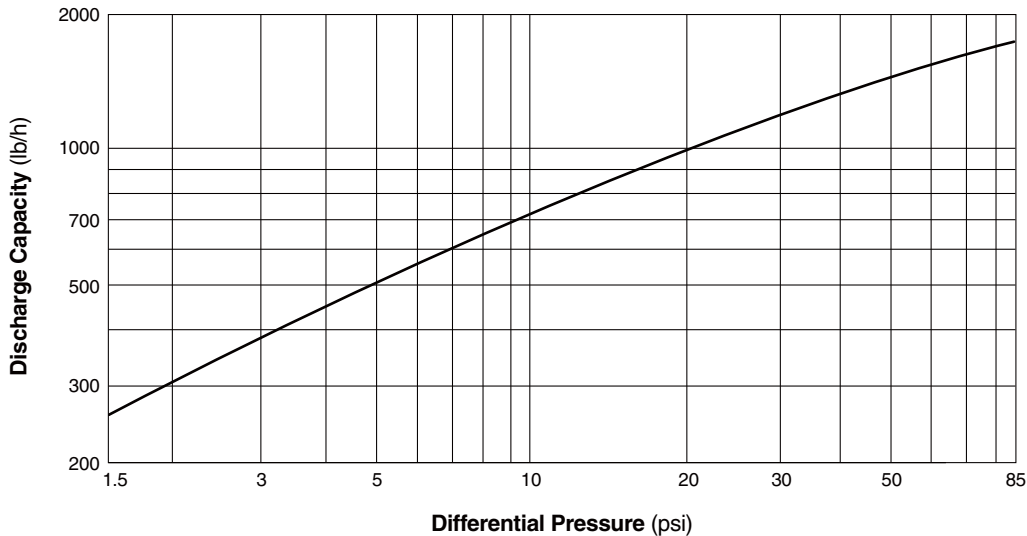
**Body Clamp** (in)

Size	2-Piece: LV6-CE / LV6-SF			3-Piece: LV6-P		
	B*	W1*	W2*	B*	W1*	W2*
1/2	3 5/8	2 1/2	2 3/16	3 1/4	2 3/4	2 3/16
3/4						
1						

\* Approximate dimension

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

**Discharge Capacity**



1. Differential pressure is the difference between the inlet and outlet pressure of the trap.
2. Recommended safety factor: at least 2.



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Manufacturer  
**TLV CO., LTD.**  
Kakogawa, Japan  
is approved by LRQA Ltd. to ISO 9001/14001

