



# BALANCED PRESSURE THERMOSTATIC STEAM TRAP

## MODEL LV6D Clean Steam Trap

### STAINLESS STEEL

STAINLESS STEEL THERMOSTATIC STEAM TRAP FOR PURE AND CLEAN STEAM SYSTEMS

### Features

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. "Fail open" feature will not hold back condensate in steam space.
3. Large orifice provides high air venting capacity for rapid start-up and resists plugging to ensure continuous operation.
4. Maintainable design lowers cleaning costs.
5. LV6D-HE polished to 0.8 µm Ra inside and 1.2 µm Ra outside, with an electro-polish option to further resist bacterial growth.



### Pressure Equipment Directive (PED)

Classification according to PED 2014/68/EU, fluid group 2

Size	Category	CE marking
DN 25, 32, 40	—*	Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

\* Manufactured in accordance with sound engineering practice

### Specifications

Model	LV6D-HC	LV6D-HS	LV6D-HP*
Connection	Clamp End		
Size	DN 25, 32, 40		
Max. Operating Pressure (barg) PMO	6.0		
Min. Operating Pressure (barg)	0.1		
Max. Back Pressure	90% of Inlet Pressure		
Max. Operating Temperature (°C) TMO	165		
Subcooling of X-element Fill (°C)	Up to 2		
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 µm Ra/1.2 µm Ra Fine Machining	0.8 µm Ra/1.2 µm Ra Buff Polished

\* LV6D-HE with 0.4 µm Ra electro-polishing available on request

1 bar = 0.1 MPa

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 10  
Maximum Allowable Temperature (°C) TMA: 185  
Minimum Allowable Temperature (°C): -40



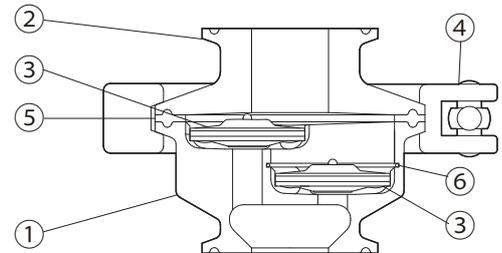
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	DIN	ASTM/AISI
①	Lower Body	Stainless Steel SUS316L*	1.4404	AISI316L
②	Upper Body	Stainless Steel SUS316L*	1.4404	AISI316L
③	X-element	Stainless Steel SUS316L	1.4404	AISI316L*
④	Body Clamp	Cast Stainless Steel A351/A351M Gr.CF8	1.4312	—
⑤	Body Gasket**	High-performance Fluorine Resin PTFE	—	—
⑥	Snap Ring	Stainless Steel SUS316	1.4401	AISI316*

\* Equivalent \*\* Body 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



Standard X-element  
LV6D-HC

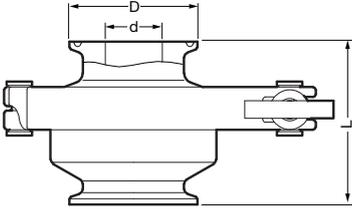
Free-draining X-element  
LV6D-HS/LV6D-HP



**Dimensions**

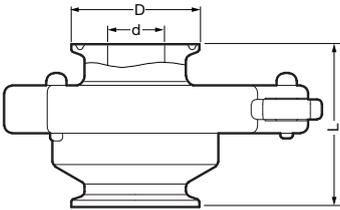
● **LV6D-HC/LV6D-HS** Clamp End

ISO 2852 Clamp

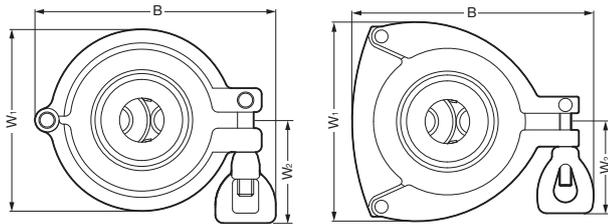


● **LV6D-HP** Clamp End

ASME-BPE (Tri-Clamp Compatible)



● **Body Clamp**



**LV6D-HC/LV6D-HS/LV6D-HP** Clamp End\* (mm)

DN [Size]	L**	φ D	φ d	Weight (kg)
25 [1"]	65	50.5	26 [22.1]	1.4
32 [1¼"]			34 [—]	
40 [1½"]			38 [34.8]	

\* ISO 2852 Clamp or ASME-BPE (Tri-Clamp compatible)

\*\* Approximate dimension

[ ] ASME-BPE (Tri-Clamp compatible)

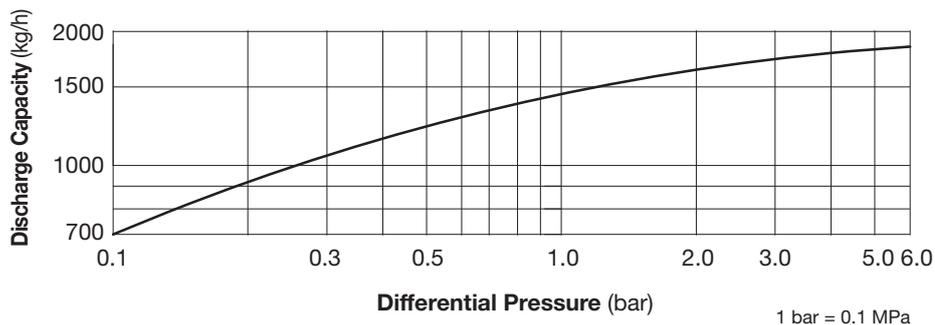
**Body Clamp** (mm)

DN	2-Piece: LV6D-HC/LV6-HS			3-Piece: LV6D-HP		
	B*	W <sub>1</sub> *	W <sub>2</sub> *	B*	W <sub>1</sub> *	W <sub>2</sub> *
25	130	90	60	120	110	60
32						
38						

\* 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.

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

ISO 9001  
 ISO 14001

