BALANCED PRESSURE THERMOSTATIC STEAM TRAP

MODEL LV6D Clean Steam Trap

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.

Specifications

Model	LV6D-HC	LV6D-HS	LV6D-HP*
Connection	Clamp End		
Size	25, 38 mm (ISO)/1", 1½" (ASME-BPE)		
Max. Operating Pressure (MPaG) PMO	0.6		
Min. Operating Pressure (MPaG)	0.01		
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 ***Clean Steam Traps***)	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 Polish

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

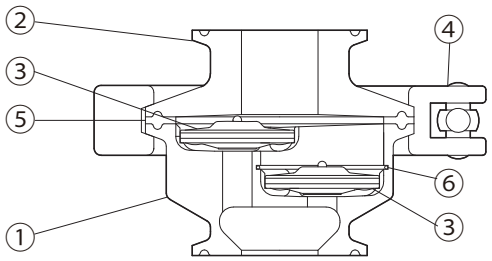
1 MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 1.0
Maximum Allowable Temperature (°C) TMA: 185
Minimum Allowable Temperature (°C): -40

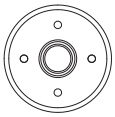
⚠ CAUTION To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

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

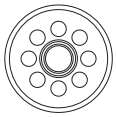
* Equivalent ** Body gasket is GYLON BIO-PRO; complies with FDA 21 CFR 177.1550, USP Class VI and EC 1935/2004.
GYLON BIO-PRO is a registered trademark of Garlock GmbH.
Material certificates to ISO 10474 2.2 or 3.1B available for major components, contact TLV for details



Standard X-element
LV6D-HC



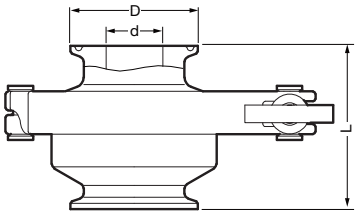
Free-draining X-element
LV6D-HS/LV6D-HP



Dimensions

● **LV6D-HC/LV6D-HS** Clamp End

ISO 2852 Clamp



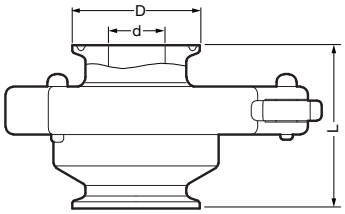
LV6D-HC/LV6D-HS/LV6D-HP Clamp End* (mm)

Size	L**	ϕD	ϕd	Weight (kg)
25 [1"]	65	50.5	22.6 [22.1]	1.4
38 [1½"]			35.6 [34.8]	

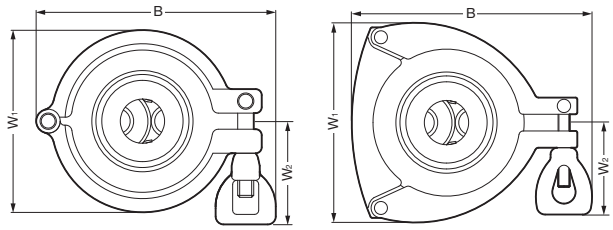
* ISO 2852 Clamp or ASME-BPE (Tri-Clamp compatible)
** Approximate dimension
[ ] ASME-BPE (Tri-Clamp compatible)

● **LV6D-HP** Clamp End

ASME-BPE (Tri-Clamp Compatible)



● **Body Clamp**

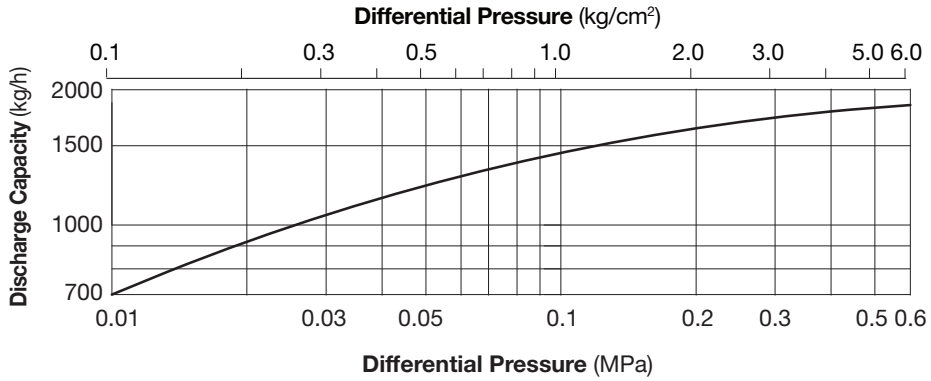


Body Clamp (mm)

Size	2-Piece: LV6D-HC/LV6-HS			3-Piece: LV6D-HP		
	B*	W_1*	W_2*	B*	W_1*	W_2*
25 [1"]	130	90	60	120	110	60
38 [1½"]						

* Approximate dimension

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
LRQA CERTIFIED

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