

BALANCED PRESSURE THERMOSTATIC STEAM TRAP MODEL LV5/LV13

BALANCED PRESSURE THERMOSTATIC TRAP WITH "FAIL OPEN" DESIGN

Benefits

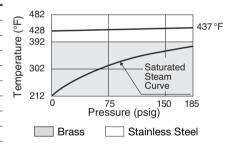
Maintainable stainless steel trap with high air venting capability and light condensate capacity for steam mains, tracing, and process equipment.

- 1. Patented "fail open" design for critical service.
- 2. Hardened stainless steel valve head and seat for maximum longevity.
- 3. Positive open-close operation reduces valve wear.
- 4. "Pressure-to-close" valve design improves life
- Valve, four diaphragms and casing have matching contours for high superheat capability and water hammer resistance.
- 6. Large screen promotes trouble-free service.
- 7. Self-draining for freeze protection in vertical use.
- 8. Flat mirror-finish valve head provides tightest sealing for energy efficiency and life.
- 9. Compact for easy installation.
- 10. Maintainable design lowers cleaning costs.



Specifications

Model		L	/ 5	LV13
Body Material		Brass	Cast Stainless Steel	Brass
Connection			Screwed	
Size (in)		1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2	1/4, 3/8, 1/2, 3/4, 1
Max. Operating Pressure (psig)	PMO	7	75	185
Min. Operating Pressure (psig)			Vacuum	
Maximum Back Pressure		9	00% of Inlet Pressure	е
Max. Operating Temp. (°F)	TMO	see graph at right		
Max. Allowable Pressure (psig)	PMA	230	900	230
Max. Allowable Temp. (°F)	TMA	428	800	428
Subcooling of Capsule Fill (°F)		up	to 11 (option: up to	40)
Type of X-element			B (option: T)	

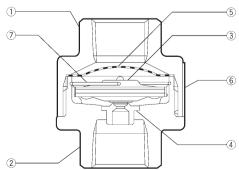


LV5 and LV13 are non-standard products, consult TLV for delivery time required.

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	ASTM/AISI*	JIS
	Body Upper Part	LV5/LV13	Brass	B124 C37700	C3771
1		LV5	Cast Stainless Steel	A351 Gr.CF8	_
2	Body Lower Part	LV5/LV13	Brass	B124 C37700	C3771
		LV5	Cast Stainless Steel	A351 Gr.CF8	_
3	X-element		Stainless Steel	_	_
4	Valve Seat		Stainless Steel	AISI603	SUS603
(5)	Screen		Stainless Steel	AISI304	SUS304
6	Nameplate		Stainless Steel	AISI304	SUS304
7	Spring Clip)	Stainless Steel	AISI304	SUS304
8	Body Gasket**		Fluorine Resin	PTFE	PTFE



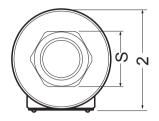
^{*} Equivalent ** Not shown, only for LV5 in brass and LV13

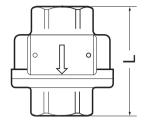


Consulting & Engineering Service

Dimensions

• LV5/LV13 Screwed, Brass



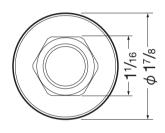


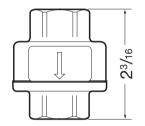
LV5/LV13 Screwed*, Brass				(in)
	Size	L	S	Weight (lb)
	1/4			

Size	L	S	(lb)
1/4			
3/8	2 ³ / ₁₆	1 ¹ / ₁₆	1.0
1/2			
3/4	23/8	1 ⁵ / ₈	1.1
1**		17/8	1.1

^{*} NPT, other standards available

• LV5 Screwed, Cast Stainless Steel



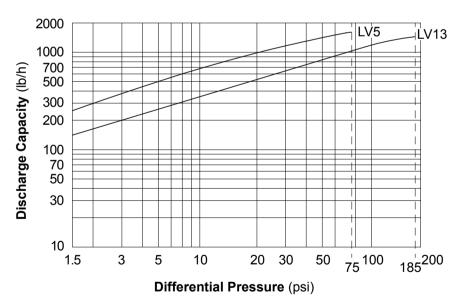


LV5 Screwed*, Cast Stainless Steel

Size	Weight (lb)
1/ ₄ 3/ ₈ 1/ ₂	0.9

^{*} NPT, other standards available

Discharge Capacity



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



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.

TLV: CORPORATION

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^{**} LV13 only