

BALANCED PRESSURE THERMOSTATIC STEAM TRAP

MODELS L21S/L32S

BALANCED PRESSURE THERMOSTATIC TRAP WITH "FAIL OPEN" DESIGN

Benefits

Inline repairable steel-bodied traps with high air venting capability and light to medium condensate capacity for tracing and process equipment.

- 1. Patented "fail open" design for critical service.
- 2. Hardended 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, multiple diaphragms and casing have matching contours for high superheat capability and water hammer resistance.
- 6. Built-in 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 and capable of self adjusting to wide flow.
- Easily cleanable and repairable design lowers maintenance costs.
- Model L32SC with built-in check valve is available upon request.



Specifications

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Model			L	.21S	L32S		
	Connection		Screwed	Socket Weld	Screwed	Socket Weld	
	Size (in)		1/2, 3/4, 1				
	Max. Operating Pressure (psig)	PMO	300		450		
	Min. Operating Pressure (psig)		Vacuum				
	Maximum Back Pressure	90% of Inlet Pressure					
	Max. Operating Temp (°F)	see graph at right					
	Max. Allowable Pressure (°F)	PMA	A 450				
	Max. Allowable Temperature (°F)	572					
	Subcooling of X-element Fill (°F)	up to 11 (option : up to 40)					
Ξ	Type of X-element	C6 (option : C22)					
Number of Diaphragms			4				

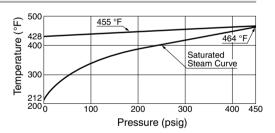
Connections and sizes in bold are standard

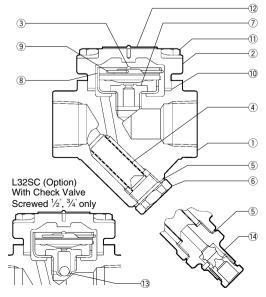


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

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No .	Description	Material	ASTM/AISI*	JIS
1	Body	Carbon Steel	A105/A105M	_
2	Cover	Carbon Steel	A105/A105M	_
3)R	X-element	Stainless Steel	_	_
4)R	Screen	Stainless Steel	AISI430	SUS430
⑤ ^{MR}	Screen Holder Gasket	Soft Iron	AISI1010	SUYP
6	Screen Holder	Carbon Steel	A105/A105M	_
(7)R	Valve Seat	Stainless Steel	AISI420F	SUS420F
(8)R	X-element Guide	Stainless Steel	AISI304	SUS304
9)R	Spring Clip	Stainless Steel	AISI304	SUS304
10 ^{MR}	Cover Gasket	Graphite/Stainless Steel	-/AISI316L	-/SUS316L
11)	Cover Bolt	Alloy Steel	A193/A193M Gr.B7	_
12	Nameplate	Stainless Steel	AISI304	SUS304
13)R	Check Valve Ball	Stainless Steel	AISI440C	SUS440C
14)	BD2 Blowdown Valve**	Cast Stainless Steel	A351 Gr.CF8	_

^{*} Equivalent ** Option
Replacement kits available: (M) maintenance parts, (R) repair parts





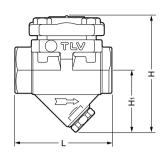
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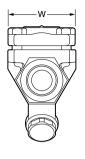


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Dimensions

● L21S/L32S Screwed



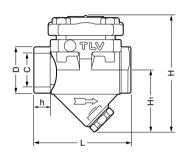


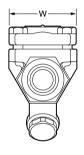
L21S/L32S			Screwe	d*	(in)	
	Size L		H** H ₁ **		W	Weight (lb)
	1/ ₂ 3/ ₄	31//8	313/16	2	1 ½16	2.9
	1	37/16	41/8	23/16	13/4	4.0

^{*} NPT, other standards available

The optional model L32SC with internal check valve has the same dimensions and weights as model L32S.

• L21S/L32S Socket Weld





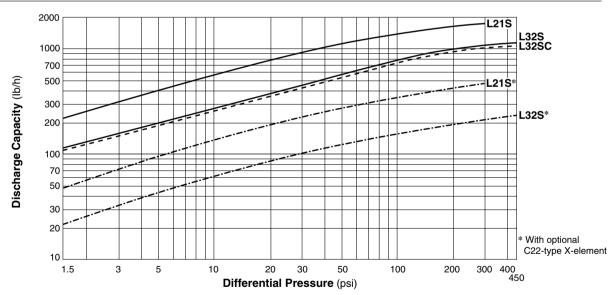
L21S/L32S Socket Weld*

(in)

Size	L	H**	H ₁ **	W	φD	φС	h	Weight (lb)
1/2	31/8	313/16		I '/16		0.855	9/	2.9
3/4					I 716	1.065		
1	37/16	41/8	23/16	13/4	13/4	1.330		4.0

^{*} ASME B16.11-2005, 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.

TLM: CORPORATION

For Technical Service 1-800 "TLV TRAP"

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

ISO 9001 ISO 14001 LRQA CERTIFIED

^{**} With optional BD2 add approx. 11/16" to H and H1.

^{**} With optional BD2 add approx. $^{11}/_{16}$ " to H and H₁.