BALANCED PRESSURE THERMOSTATIC STEAM TRAP

MODEL LV21

BALANCED PRESSURE THERMOSTATIC STEAM TRAP WITH 'FAIL OPEN' DESIGN

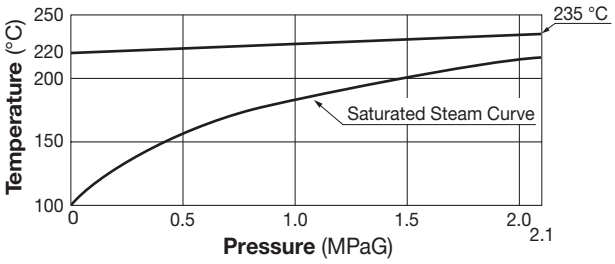
Features

All stainless steel thermostatic trap suitable for applications where the condensate load is relatively small, e.g. tracing, vessels and heaters. Preferably for vertical installation.

1. "Fail open" feature.
2. Rugged yet light construction withstands superheat and water hammer.
3. Cyclic operation with fixed subcooling throughout entire pressure range.
4. Outstanding air venting capability.
5. Compact, yet high capacity.
6. Easy to maintain and easy to clean.
7. Hardened stainless steel valve surfaces.
8. Built-in screen with large surface area.

Specifications

Model	LV21
Connection	Screwed
Size (mm)	8, 10, 15
Max. Operating Press. (MPaG) PMO	2.1
Min. Operating Press. (MPaG)	0.01
Maximum Back Pressure	90% of Inlet Pressure
Max. Operating Temp. (°C) TMO	see graph at right
Subcooling of X-element Fill (°C)	up to 6 (option: up to 22)
Type of X-element	C6 (option: C22)



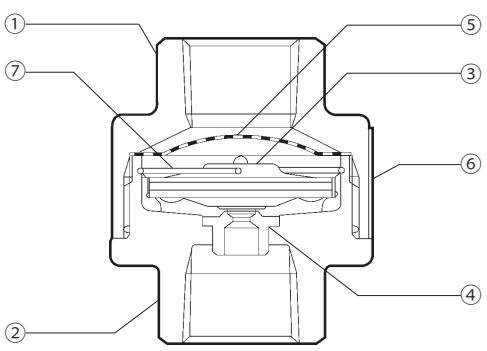
1 MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS):
Maximum Allowable Pressure (MPaG) PMA: 6.3
Maximum Allowable Temperature (°C) TMA: 425

⚠ 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.

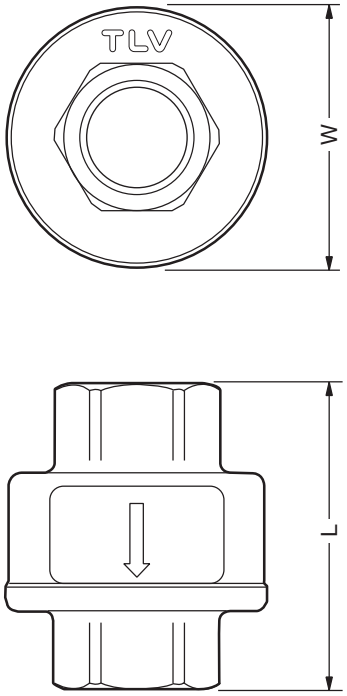
No.	Description	Material	JIS	ASTM/AISI*
①	Body	Cast Stainless Steel	—	A351 Gr.CF8
②	Cover	Cast Stainless Steel	—	A351 Gr.CF8
③	X-element	Stainless Steel	—	—
④	Valve Seat	Stainless Steel	SUS630	AISI630
⑤	Screen	Stainless Steel	SUS304	AISI304
⑥	Nameplate	Stainless Steel	SUS304	AISI304
⑦	Spring Clip	Stainless Steel	SUS304	AISI304

* Equivalent



Dimensions

● **LV21** Screwed

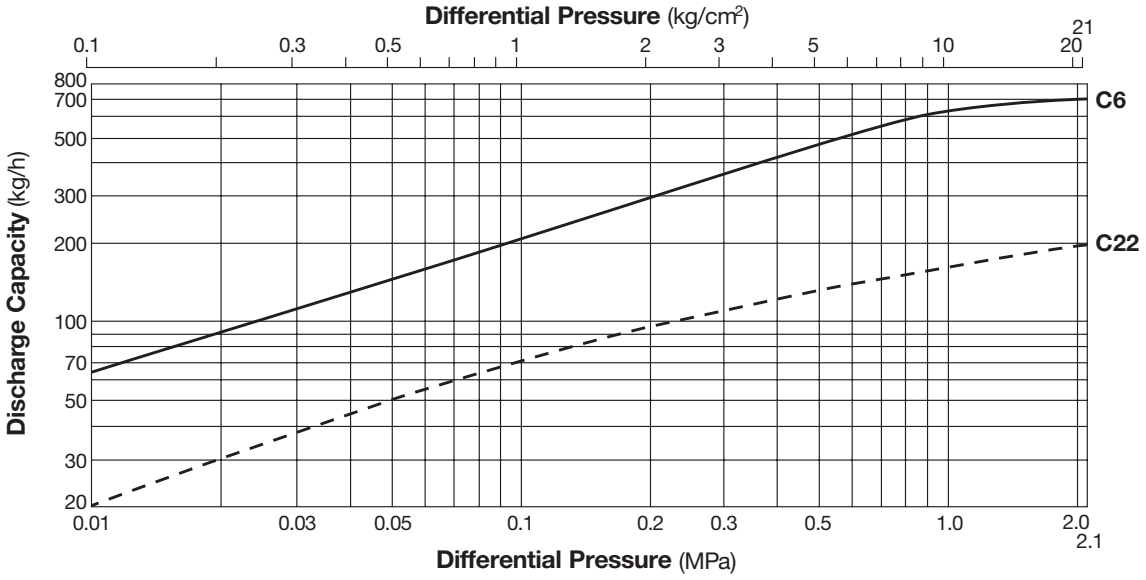


LV21 Screwed* (mm)

Size	L	ϕW	Weight (kg)
8	55	47	0.4
10			
15			

* Rc(PT), 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.

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

ISO 9001
ISO 14001

(T)

SDS M2012-20 Rev. 2/2022
Products for intended use only.
Specifications subject to change without notice.