TRAP STATION TLV

MODEL V1/V2

FORGED TRAP STATION EQUIPPED WITH BUILT-IN BELLOWS SEALED VALVE

Features

Compact valve and steam trap station for use with condensate manifolds or applications with limited installation space.

- 1. All wetted components are stainless steel.
- 2. Rugged, compact and versatile design minimizes installation area and easily adapts to plant requirements.
- 3. Built-in bellows-sealed valves have durable stainless steel bellows to eliminate gland leakage.
- 4. Good seal with stellite hardened surfaces on valve plug and valve seat.
- 5. **QuickTrap** 2-bolt universal connection permits trap unit replacement in minutes without disturbing piping.
- 6. Built-in screen with large surface area ensures trouble-free operation.
- 7. Includes built-in BD2 blowdown and/or test valves on some models for station blowdown and trap testing.



Photo shows with S3 trap unit

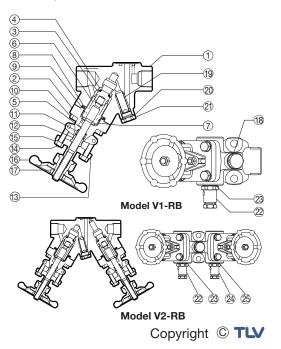
Specifications

Model	V1-RL, V1-LB, V1-RB		V2-RL, V2-LB, V2-RB	
Connection	Screwed	Socket Welded	Screwed	Socket Welded
Size (mm)	15, 20		15, 20	
Built-in Valve Location	1 valve at trap inlet 1		1 valve at trap inlet, 1 valve at trap outlet	
Maximum Operating Pressure (MPaG) PMO	4.6*			
Maximum Operating Temperature (°C) TMO	O 425*			

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 4.6* 1 MPa = 10.197 kg/cm² Maximum Allowable Temperature (°C) TMA: 425* * For trap station only; further restricted by mounted trap unit

To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. CAUTION To avoid abnormal operation, accidents or serious man, 2000 the conditions quoted.

No.	Description		Material	JIS	ASTM/AISI 1)
1	Body		Stainless Steel	SUS304	AISI304
2	Valve Bonnet		Carbon Steel		A105
3	Valve Plug		Stainless Steel + Stellite		A276-304
4	Valve Seat		Stainless Steel + Stellite		A276-410
(5)	Valve Stem		Stainless Steel		A276-410
6	Bellows		Stainless Steel	SUS316L	AISI316L
\bigcirc	Bellows Flang	ge	Stainless Steel		A276-316L
8	Bellows Gasket	Lower 3)	Graphite/Stainless Steel	- /SUS316	- /AISI316
9	Dellows Gasket	Upper	Graphite/Stainless Steel	- /SUS304	- /AISI304
10	Bonnet Bolt		Alloy Steel		A193 Gr.B7
1	Gland Packing		Graphite		_
12	Gland Bushing		Stainless Steel		A276-410
13	Gland Flange		Carbon Steel	_	A105
14	Gland Eye Bo	olt	Alloy Steel		A193 Gr.B7
15	Gland Nut		Carbon Steel		A194 Gr.2H
16	Handwheel		Ductile Cast Iron	FCD450	A536
\bigcirc	Handwheel N	lut	Carbon Steel	S25C	AISI1025
18	Nameplate		Stainless Steel	SUS304	AISI304
19	Screen 3) inside/outside		Stainless Steel	SUS304/430	AISI304/430
20	Screen Holder Gasket 3)		Stainless Steel	SUS316L	AISI316L
21)	Screen Holder Plug		Stainless Steel	SUS303	AISI303
22	Blowdown Valve (BD2) 2)		Cast Stainless Steel		A351 Gr.CF8
23	Blowdown Valve G	asket 2),3)	Stainless Steel	SUS316L	AISI316L
24	Test Valve (B	D2) 2)	Cast Stainless Steel		A351 Gr.CF8
25	Test Valve Gas	sket 2),3)	Stainless Steel	SUS316L	AISI316L



⁾ Equivalent

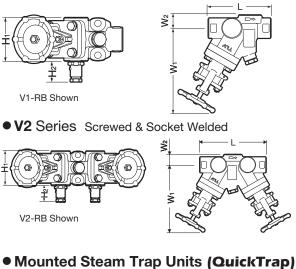
Equivalent ²⁾ See next page for available models Aside from these indicated, replacement parts are not normally supplied. Consult TLV if other parts are needed.

TLV

Consulting & Engineering Service

Dimensions

• V1 Series Screwed & Socket Welded



With: S3/S5/S5H P46UC L21/L32

V1 Series Screwed & Socket Welded (mm)							
Size	L	H1	H2	W1*	W2	Weight** (kg)	
15 20	120	70	33	180	26	3.4	

Screwed connections are Rc(PT) or NPT; other standards available * At full-open position ** With blowdown and test valves

V2 Se	eries	Screwed	(mm)			
Size	L	H1	H2	W1*	W2	Weight** (kg)
15	160	70	33	180	26	5.8
20						

Screwed connections are Rc(PT) or NPT; other standards available * At full-open position ** With blowdown and test valves

Socket Welded Connections -h Size 15 C Ó 20 9.J

φC φD h JIS ASME 22.2 21.8 13 36 27.7 27.2 * JIS or ASME B16.11-2005, other

(mm)

3 /	standards a	(mm)	
W1* W3	10/-	Weigł	nt (kg)
	VV3	With V1**	With V2**
	1.10		

S3	180	143	4.4	6.8
S5		175	4.8	7.2
S5H		178	4.9	7.3
P46UC		110	4.4	6.8
L21/L32		110	4.5	6.9

Model

*At full-open position ** Combined weight of trap station with mounted trap unit

Valve Series

Model		V1-RL*	V1-RB	V1-LB	V2-RL*	V2-RB	V2-LB		
Station Picture		070 or 1910		CECO	ONERO or ONERO	OJĘO	ojico		
Flow Diagram		⊼i-2→ or -20→-⊼i		- 4 -	Jui-20-Jui- orJu-20-Jui-				
Flow Direction		Right or Left	Right	Left	Right or Left	Right	Left		
Inlet Valve		\checkmark	V	V	✓	~	V		
Outlet Valve			_	_	✓	\checkmark	~		
Blowdov	vn Valve		V	V		~	V		
Test Valve			_	_	_	~	~		
Available Free Float S3 / S5 / S5H				5 / S5H					
Trap	Thermodynamic	P46UC							
Units**	Thermostatic	L21/L32							

Steam Trap Units Specifications**

Free Float Steam Trap S3 / S5 / S5H		Thermodynamic Steam Trap P46UC		Thermostatic Steam Trap L21 / L32	
PMO: 2.1 / 3.2 / 4.6 MPaG	Car	PMO: 4.6 MPaG		PMO: 2.1 / 3.2 MPaG	
TMO: 400 / 400 / 425 °C		TMO: 425 °C	200	TMO: 235 / 240 °C	RE
Max. Discharge Capacity*** 215 / 670 / 245 kg/h	S3/S5/S5H	Max. Discharge Capacity*** 740 kg/h	P46UC	Max. Discharge Capacity*** 760 / 530 kg/h	L21/L32

* Can be used for flow in either direction ** For more information, see the **QuickTrap** specifications data sheet for the steam trap employing the desired trap unit (trap unit - **QuickTrap** data sheet): S3 - FS3; S5 - FS5; S5H - FS5; P46UC - FP46UC; L21 - FL21/FL32; L32 - FL21/FL32; *** Capacities shown here will vary depending on orifice numbers, type of X-element and/or pressure differential.

Manufacturer

Kakogawa, Japan is approved by LRQA Ltd. to ISO 9001/14001

CO. LTD.



http://www.tlv.com

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