

TRAP STATION

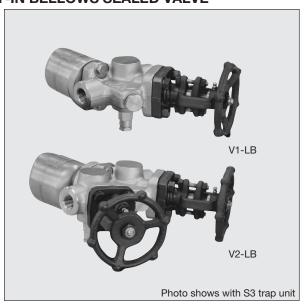
MODEL V1/V2

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.



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 valve at trap inlet, 1 valve at trap outlet	
Maximum Operating Pressure (MPaG) PMO	4.6*			
Maximum Operating Temperature (°C) TMO	425*		25*	

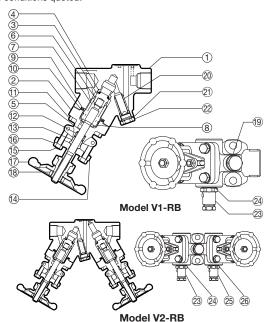
PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 4.6* 1 MPa = 10.197 kg/cm² Maximum Allowable Temperature (°C) TMA: 425* * For trap station only; further restricted by mounted trap unit

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

No.	Description		Material	JIS	ASTM/AISI 1)
1	Body		Stainless Steel	SUS304	AISI304
2	Valve Bonne	et	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 Rin	g	Stainless Steel	_	A276-304
7	Bellows		Stainless Steel	SUS316L	AISI316L
8	Bellows Fla		Stainless Steel	_	A276-316L
9	Bellows	Lower 3)	Graphite/Stainless Steel	- /SUS316	- /AISI316
10	Gasket	Upper	Graphite/Stainless Steel	- /SUS304	- /AISI304
11	Bonnet Bolt	t	Alloy Steel	_	A193 Gr.B7
12	Gland Pack	ing	Graphite	_	_
13	Gland Bush	ing	Stainless Steel	_	A276-410
(14)	Gland Flang	ge	Carbon Steel	_	A105
15	Gland Eye E	3olt	Alloy Steel	_	A193 Gr.B7
16	Gland Nut		Carbon Steel	_	A194 Gr.2H
17)	Handwheel		Ductile Cast Iron	FCD450	A536
	Handwheel	Nut	Carbon Steel	S25C	AISI1025
19	Nameplate		Stainless Steel	SUS304	AISI304
	Screen 3 insid	e/outside	Stainless Steel	SUS304/430	AISI304/430
21)	Screen Holder Gasket 3)		Stainless Steel	SUS316L	AISI316L
22	Screen Holder Plug		Stainless Steel	SUS303	AISI303
23	Blowdown Val	ve (BD2) 2)	Cast Stainless Steel	_	A351 Gr.CF8
24)	Blowdown Valve	e Gasket 2),3)	Stainless Steel	SUS316L	AISI316L
25	Test Valve (Cast Stainless Steel	_	A351 Gr.CF8
26	Test Valve G	asket 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.



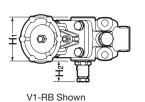
Copyright © TLV

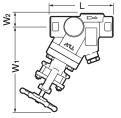


Consulting & Engineering Service

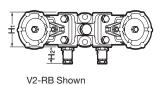
Dimensions

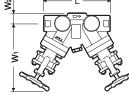
● V1 Series Screwed & Socket Welded



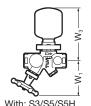


V2 Series Screwed & Socket Welded





Mounted Steam Trap Units (QuickTrap)







V1 Series Screwed & Socket Welded Weight** (kg) Size L Η1 H₂ W₂ 15 120 70 33 180 26 3.4 20

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

V2 Series			Screwed	l & Sock	ket Weld	led	(mm)
	Size	L	H ₁	H ₂	W1*	W ₂	Weight** (kg)
	15	160	70	33	180	26	5.8

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

Socket Welded Connections

 $\dot{\Box}$

r	<u>rectio</u>	(mm)			
	Size	φD	φ	h	
	Size		JIS	ASME	
	15	36	22.2	21.8	13
	20		27.7	27.2	13

JIS or ASME B16.11-2005, other standards available (mm)

Model	\A/.*	١٨/-	Weight (kg)		
	W ₁ *	W1* W3		With V2**	
S3		143	4.4	6.8	
S5	180	175	4.8	7.2	
S5H		178	4.9	7.3	
P46UC		110	4.4	6.8	
L21/L32		110	4.5	6.9	

Valve Series

Model		V1-RL*	V1-RB	V1-LB	V2-RL*	V2-RB	V2-LB			
Station Picture		OFF or CORO			OTERO or OTERO					
Flow Diagram		-⊼-~~ or - ~ -⊼-	-X	- 4 -	-Д-Д- or -Д-Д-	-X				
Flow Direction		Right or Left	Right	Left	Right or Left	Right	Left			
Inlet Valve		V	V	V	V	V	V			
Outlet Valve		_	_	_	V	V	V			
Blowdown Valve		<u> </u>	V	V	_	V	V			
Test Valve		_	_	_	_	V	V			
Available Free Float S3 / S5 / S5H										
Trap	Thermodynamic		P46UC							
Units** Thermostatic L21 / L32										

Steam Trap Units Specifications**

Ottourn Trup Othico Opoc					
Free Float Steam Trap S3 / S5 / S5H		Thermodynamic Steam Trap P46UC		Thermostatic Steam Trap L21 / L32	
PMO: 2.1 / 3.2 / 4.6 MPaG	Pac	PMO: 4.6 MPaG		PMO: 2.1 / 3.2 MPaG	
TMO: 400 / 400 / 425 °C		TMO: 425 °C		TMO: 235 / 240 °C	
Max. Discharge Capacity***		Max. Discharge Capacity***	1	Max. Discharge Capacity***	
215 / 670 / 245 kg/h	S3/S5/S5H	740 kg/h	P46UC	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





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