TRAP STATION

MODEL V1/V2

FORGED TRAP STATION EQUIPPED WITH BUILT-IN BELLOWS-SEALED VALVES

Benefits

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 two-bolt universal connection permits trap unit replacement in minutes without disturbing piping.
- 6. Built-in screen with large surface area ensures troublefree operation.
- 7. Includes built-in BD2 blowdown valves for station blowdown and trap testing.



Specifications

Sh	ecilications											
Mod	el		V1	-RB	V1	-LB	V2-	·RB	V2-	·LB		
Con	nection		Screwed	Socket Weld	Screwed	Socket Weld	Screwed	Socket Weld	Screwed	Socket Weld		
Size	(in)		1/2, 3/4	1/2, 3/4	1/2, 3/4	1/2, 3/4	1/2, 3/4	1/2, 3/4	1/2, 3/4	1/2, 3/4		
Built	-in Valve Location			One valve	at trap inlet				one valve at	trap outlet		
Max	imum Operating Pres	sure (psig) PMO	650*									
Max	imum Operating Tem	perature (°F) TMO	752*									
Max	imum Allowable Press	sure (psig) PMA	650*									
	imum Allowable Temp					75	52*					
	Leakage (Gas test in acco	()			0 bi	ubbles/15 se		neia				
	9 (1		A				1 0	izes in bold a	ro otondor		
	A/TMA and/or PMO/TM e assembled product a			trap unit, the	e actual speci	fications	Conne	cuons and s	izes in bolu a	are stanuar		
		id abnormal operation,		or corious in		use this proc	luct outsido (of the energific	ation range			
		equiations may restrict						or the specific	auon range.			
<u>_</u>	S Local r	egulations may restrict	line use of	this product		conditions qu	Jolea.					
No.	Description	Material	AST	M/AISI 1)	JIS (4	i)						
1	Body	Stainless Steel	AISI	304 SL	JS304 (3							
2	Valve Bonnet	Carbon Steel	A105	5	@		\backslash					
3	Valve Plug	Stainless Steel + Stel		5-304								
(4)	Valve Seat	Stainless Steel + Stel	lite A276	6-410	@				-			
(5)	Valve Stem	Stainless Steel		6-410	(2		\mathbb{N}		(19)			
6	Bellows	Stainless Steel	AISI	316L SU	JS316L (1		15712024	<u> </u>				
7	Bellows Flange	Stainless Steel		6-316L	(5	$ \longrightarrow $	ANDAN V	\mathbb{N}				
8	Bellows Gasket	Graphite/Stainless St			<u>SUS316</u> (6 (/ // A		U	-18		
9	Upper	Graphite/Stainless St			SUS304 (1				7			
10	Bonnet Bolt	Alloy Steel	A193	3 Gr.B7	0		\$ 16S~	1223		\checkmark		
1	Gland Packing	Graphite				\$ 7	Joll	$I/\langle \rangle$		∦ <u>ل</u> ے		
12	Gland Bushing	Stainless Steel		6-410		<u>//</u>	<u> </u>	(∀ ⊙)})))]] [](((
13	Gland Flange	Carbon Steel	A105		0) – SUB	\leq	$\mathbb{N} \setminus \mathbb{A}$	Foll	Ĩ,-J		
14	Gland Eye Bolt	Alloy Steel		3 Gr.B7			Q,	\sim				
15	Gland Nut	Carbon Steel		Gr.2H		3)		Model V1-R	- <u>い</u> 、	23		
16	Handwheel	Ductile Cast Iron	A536		CD450		r		╸	2		
17	Handwheel Nut	Carbon Steel	AISI		25C					9		
18	Nameplate	Stainless Steel	AISI		JS304	╘┼╬		Par	<u>താരിന്റെ അ</u>	A C		
19	Screen ³⁾	Stainless Steel	AISI		JS430	[-][\$	VU. KAKA	(\mathcal{H})		(())) ()) ()) ()) ()) () (
20	Screen Holder Gasket 3)	Stainless Steel	AISI		JS316L	a a fair			S S S S S S S S S S S S S S S S S S S	SI -		
21	Screen Holder Plug	Stainless Steel	AISI		JS303	I AS	· EI		ע ע			
22	Blowdown Valve (BD2) 2)	Cast Stainless Steel	A35	1 Gr.CF8		~dk	ES STA	15-0	_//_//	\		

SUS316L

SUS316L

Test Valve Gasket 2),3) Stainless Steel 25 ²⁾ See next page for available models ¹⁾ Equivalent

Aside from these indicated, replacement parts are not normally supplied. Consult TLV if other parts are needed.

Cast Stainless Steel

Stainless Steel

AISI316L

AISI316L

A351 Gr.CF8

Blowdown Valve Gasket 2),3

Test Valve (BD2)²⁾

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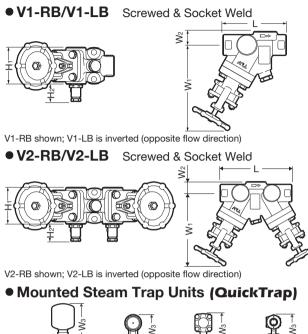
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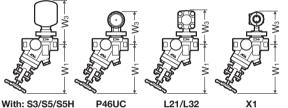
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Model V2-RB

TLV

Dimensions





	V1-RB/V1-LB	Screwed & Socket Weld
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Size	L	H1	H2	W1*	W2	Weight (lb)
1/2 3/4	4¾	2 ³ ⁄4	1 ⁵ ⁄16	7 ¹ /16	1	7.5

(in)

(in)

Screwed connections are NPT; other standards available * At full-open position

V2-RB/V2-LB	Screwed & Socket Weld	(in)
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Size	L	H1	H2	W1*	W2	Weight (lb)
1/2 3/4	6 5/16	23⁄4	1 ⁵ ⁄16	7 1/16	1	13

Screwed connections are NPT; other standards available * At full-open position

 Socket Weld 	Conne	ctions	
→ h ←	Size	φD	φC

	OIZE	ΨD	ΨU	
	1/2	1 ⁷ /16	0.855	1/
	3/4	1 716	1.065	1/2
18.	* ASME B available		5, other sta	andards

Model	W1	Wз	Weight (lb)					
MODEI	(in)	(in)	With V1*	With V2*				
S3	7 ¹ ⁄16	51/8	9.7	15				
S5		61/8	11	16				
S5H		71/-	7	11	10			
P46UC			9.7					
L21/L32		43/8	9.9	15				
X1			9.9					

* Combined weight of trap station with mounted trap unit

Valve Series

Model		V1-RB	V1-LB	V2-RB	V2-LB	Steam Trap Unit Specification	tions*
Station Picture				OTRO	Olito	Free Float Steam Trap S3 / S5 / S5H	(Property)
Flow Diagram						PMO: 300 / 450 / 650 psig TMO: 752 / 752 / 800 °F Max. Discharge Capacity** 475 / 1510 / 530 lb/h	S3/S5/S5-H
Flow Direction		Right	Left	Right	Left	Thermodynamic Steam Trap P46UC	
Inlet Valve		\checkmark	~		~	PMO: 650 psig	
Outlet Valve		_	_		~	TMO: 750 °F	
Blowdown Valve		~	~	~	~	Max. Discharge Capacity** 1630 lb/h	P46UC
Test Valve		_	_	~	~	Thermostatic Steam Trap	
Available	Free Float		S3 / S5 / S5H			L21 / L32 / X1	POS A
Trap	Thermodynamic		P46UC			PMO: 300 / 450 / 300 psig TMO: 455 / 464 / 662 °F	
Units*	Thermostatic	L21 / L32 / X1				Max. Discharge Capacity** 1050 / 930 / 650 lb/h	L21/L32 X1

* 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/FS5; S5 - FS3/FS5; S5H - FS5H; P46UC - FP46UC; L21 - FL21/FL32; L32 - FL21/FL32; X1 - FX1
** Capacities shown here will vary depending on orifice numbers, type of X-element and/or pressure differential.

CAUTION DO NOT DISASS Allow internal pr

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.

FCI

TLV: CORPORATION

13901 South Lakes Drive, Charlotte, NC 28273-6790 Tel: 704-597-9070 Fax: 704-583-1610 E-mail: tlv@tlvengineering.com https://www.tlv.com For Technical Service 1-800 "TLV TRAP" Kakogawa, Japan is approved by LRIA Ltd. to ISO 9001/14001



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Manufacturer

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