

V1/V2 Forged Stainless Steel Trap Station /w 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.



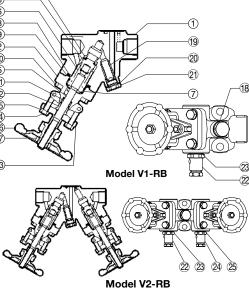
Photo shows with S3 trap unit

Specifications

Model	V1-RB,	, V1-LB	V2-RB	, V2-LB
Connection	Screwed	Socket Welded	Screwed	Socket Welded
Size	1/2", 3/4"	DN 15, 20	1/2", 3/4"	DN 15, 20
Built-in Valve Location	1 valve at	t trap inlet	1 valve at trap inlet,	1 valve at trap outlet
Maximum Operating Pressure (barg) PMO		4	6*	
Maximum Operating Temperature (°C) TMO		42	25*	

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 46* 1 bar = 0.1 MPa Maximum Allowable Temperature (°C) TMA: 425* * For trap station only; further restricted by mounted trap unit.

Ŵ	CAUTION		d abnormal operation, accident egulations may restrict the use o				
No.	Descriptio	on	Material	DIN ¹⁾	ASTM/AISI 1)	4	
1	Body		Stainless Steel SUS304	1.4301	AISI304	3	
2	Valve Bonnet		Carbon Steel A105	1.0460			
3	Valve Plug		Stainless Steel A276-304 + Stellite	—	_	9	
4	Valve Seat		Stainless Steel A276-410 + Stellite	—	_	Ž	
5	Valve Stem		Stainless Steel A276-410	—	_		
6	Bellows		Stainless Steel SUS316L	1.4404	AISI316L	<u> </u>	
\bigcirc	Bellows Flang	ge	Stainless Steel A276-316L	1.4404	_	Ŭ	
8 9	Bellows Gasket	Lower 3)	Graphite/Stainless Steel SUS316	- /1.4401	- /AISI316	i Den and a start and a start	
9	Dellows Gaskel	Upper	Graphite/Stainless Steel SUS304	- /1.4301	- /AISI304	15-12	
10	Bonnet Bolt		Alloy Steel A193 Gr.B7	1.7225			YZ (CR
11	Gland Packin	g	Graphite	—		K	Ŷ (H O>))@
12	Gland Bushin	g	Stainless Steel A276-410		_		
13	Gland Flange		Carbon Steel A105	1.0460	_		
14	Gland Eye Bo	olt	Alloy Steel A193 Gr.B7	1.7225	_	13	Model V1-RB
15	Gland Nut		Carbon Steel A194 Gr.2H		_	-	
16	Handwheel		Ductile Cast Iron FCD450	0.7040	A536	TT A	
17	Handwheel N	lut	Carbon Steel S25C	1.1158	AISI1025	5163	
18	Nameplate		Stainless Steel SUS304	1.4301	AISI304		
19	Screen 3) inside/	outside	Stainless Steel SUS304/430	1.4301/1.4106	AISI304/430	AL	- Raily Contraction
20	Screen Holder G	asket 3)	Stainless Steel SUS316L	1.4404	AISI316L	- And	
21	Screen Holde	er Plug	Stainless Steel SUS303	1.4305	AISI303	S A B	
22	Blowdown Valve	(BD2) ²⁾	Stainless Steel A351 Gr.CF8	1.4312		Ś	
23	Blowdown Valve G	asket 2),3)	Stainless Steel SUS316L	1.4404	AISI316L	_	Model V2-RB
24	Test Valve (B	D2) 2)	Cast Stainless Steel A351 Gr.CF8	1.4312			
25	Test Valve Ga	sket 2),3)	Stainless Steel SUS316L	1.4404	AISI316L		

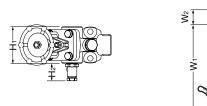


Equivalent materials
²⁹ See next page for available models
³⁰ Aside from these indicated, replacement parts are not normally supplied. Consult TLV if other parts are needed.

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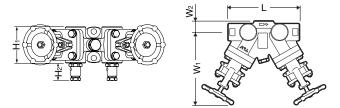
Dimensions

● V1-RB·V1-LB Screwed & Socket Welded

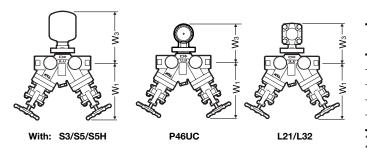


V1-RB shown; V1-LB is inverted (opposite flow direction)

• V2-RB · V2-LB Screwed & Socket Welded



V2-RB shown; V2-LB is inverted (opposite flow direction)



V	1	-RB•	٧	1-LB	Screwed* & Socket Welded	(mm)
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Size	DN	L	H1	H ₂	W1**	W2	Weight (kg)
1/2″	15	120	70	33	180	26	2.4
3⁄4″	20	120	70	33	160	20	3.4

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

V2-RB·V2-LB Screwed* & Socket Welded (mm)

Size	DN	L	H1	H2	W1**	W2	Weight (kg)
1/2″	15	160	70	20	100	06	E 0
3/4″	20	160	70	33	180	26	5.8

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

Socket Weld	Conne	ections	5	(mm)
→ h 🛏	DN	φD	φC	h



				(11111)
,	DN	φD	φC	h
	15	36	21.8	13
/l	20	30	27.2	13
	ASME B16 available	6.11-2005,	other star	ndards

Model	W1*	W3	Weigł	nt (kg)
MODEI	(mm)	(mm)	With V1**	With V2**
S3		143	4.4	6.8
S5		175	4.8	7.2
S5H	180	178	4.9	7.3
P46UC		110	4.4	6.8
L21/L32		110	4.5	6.9

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

Valve Series

Model		V1-RB	V1-LB	V2-RB	V2-LB	Steam Trap Unit Spee
Station Pictu	ıre		CI CO	OTEC	OJICO	Free Float Steam Trap S3 / S5 / S5H
Flow Diagra	m					PMO: 21 / 32 / 46 barg TMO: 400 / 400 / 425 °C Max. Discharge Capacity** 215 / 670 / 245 kg/h
Flow Direction	on	Right	Left	Right	Left	Thermodynamic Steam Trap P46UC
Inlet Valve		~	✓	✓	✓	PMO: 46 barg
Outlet Valve		_	_	~	~	TMO: 425 °C
Blowdown V	/alve	~	~	~	~	Max. Discharge Capacity** 740 kg/h
Test Valve		_	_	~	~	Thermostatic Steam Trap L21 / L32
	Free Float		S3 / S	5 / S5H		PMO: 21 / 32 barg
Available Trap Units*	Thermodynamic		P4	6UC		TMO: 235 / 240 °C
nap Ollits	Thermostatic		L21	/ L32		Max. Discharge Capacity** 760 / 530 kg/h

* 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.

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