

# TRAP STATION

# MODEL V1P/V2P

#### FORGED TRAP STATION EQUIPPED WITH BUILT-IN PISTON VALVE

#### **Features**

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

- 1. Rugged, compact and versatile design minimizes installation area and easily adapts to plant requirements.
- 2. Employs a piston valve with upper and lower valve rings made of alternating layers of stainless steel and graphite that provide a tight-sealing soft seat.
- 3. The synergy between the wide stainless steel piston sealing surface and soft valve seat of the piston valve ensures reliable long term sealing.
- 4. QuickTrap 2-bolt universal connection permits trap unit replacement in minutes without disturbing piping.
- 5. Built-in screen with large surface area ensures trouble-free operation.
- 6. Includes built-in BD2 blowdown and/or test valves on some models for station blowdown and trap testing.



# **Specifications**

Model		V1P-RL   V1P-RB   V1P-LB   V1P-RW   V1P-LW   V1P-RV   V1P-LV   V2P-RL   V2P-RB   V2P-LB				
Connection		Screwed, Socket Welded				
Size (mm)		15, 20				
Built-in Valve Location		1 valve at trap inlet 1 valve at trap inlet 1 valve at trap out				
Max. Operating Pressure (MPaG)	PMO	5.0*	•			
Max. Operating Temperature (°C)	TMO	425*				

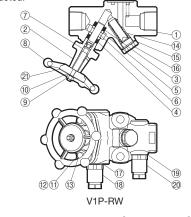
PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 5.0\* Maximum Allowable Temperature (°C) TMA: 425\*

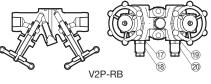
For trap station only; further restricted by mounted trap unit.

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	Dodu		Carbon Steel	_	A105	
1	Body		Stainless Steel	_	A182 F304	
2	Valve Bonnet		Carbon Steel	_	A105	
3	Lower Valve Rir	ng	Graphite/Stainless Steel	_	_	
4	Upper Valve Rir	ng	Graphite/Stainless Steel	_	_	
(5)	Lantern Bushing	g	Stainless Steel	_	A182 F316	
6	Piston	•	Stainless Steel	_	A182 F316	
7	Spindle		Stainless Steel	_	A479 410	
8	Handwheel		Carbon Steel	_	A105	
9	Handwheel Nut		Carbon Steel	_	_	
10	Washer		Carbon Steel	_	_	
11)	Bonnet Nut		Carbon Steel	_	_	
(12)	Washer		Carbon Steel	_	_	
13	Bonnet Bolt		Alloy Steel	_	A193 Gr.B7	
(14)	Screen 3) inside/	outside/	Stainless Steel	SUS304/430	AISI304/430 1)	
(15)	Screen Holder	Carbon Steel Body	Soft Iron	SUYP	AISI1010 1)	
(13)	Gasket 3)	Stain. Steel Body	Stainless Steel	SUS316L	AISI316L 1)	
(16)	Causais Haldau	Carbon Steel Body	Carbon Steel	_	A105	
(10)	Screen Holder	Stain. Steel Body	Stainless Steel	SUS303	AISI303 1)	
(17)	Blowdown	Carbon Steel Body	Soft Iron	SUYP	AISI1010 1)	
W)	Valve Gasket 2),3)	Stain. Steel Body	Stainless Steel	SUS316L	AISI316L 1)	
18)	Blowdown Valve (BD2) 2)		Cast Stainless Steel	_	A351 Gr.CF8	
(19)	Test Valve	Carbon Steel Body	Soft Iron	SUYP	AISI1010 1)	
(19)	Gasket 2),3)	Stain. Steel Body	Stainless Steel	SUS316L	AISI316L 1)	
20	Test Valve (BD2	2) 2)	Cast Stainless Steel		A351 Gr.CF8	
21)	Nameplate	•	Aluminum	_	_	

Truth replace
 Substitution
 Substitution





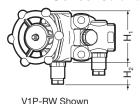


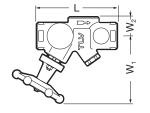


## **Consulting & Engineering Service**

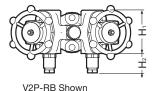
#### **Dimensions**

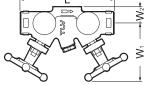
#### ● V1P Series Screwed & Socket Welded



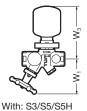


V2P Series Screwed & Socket Welded

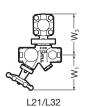




#### Mounted Steam Trap Units (QuickTrap)







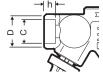
V1P Series Screwed & Socket Welded Weight\*\* (kg) 120 74 33 120 2.4 20

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

,	V2P S	Series	Screwe	ed & So	cket We	lded	(mm)
	Size	L	H <sub>1</sub>	H <sub>2</sub>	W1*	W <sub>2</sub>	Weight** (kg)
	15 20	160	74	33	120	28	3.8

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

#### **Socket Welded Connections**



Щ	ectic	(mm)			
Size	4 D	φ	h		
	φD	JIS	ASME	П	
	15	36	22.2	21.8	13
	20	36	27.7	27.2	13

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

Model	W1*	١٨/-	Weight (kg)		
		Wз	With V1P**	With V2P**	
S3		143	3.4	4.8	
S5	120	175	3.8	5.2	
S5H		178	3.9	5.3	
P46UC		110	3.4	4.8	
L21/L32			3.5	4.9	

### **Valve Series**

Model		V1P-RL*	V1P-RB	V1P-LB	V1P-RW	V1P-LW	V1P-RV	V1P-LV	V2P-RL*	V2P-RB	V2P-LB
Station F	Picture	( <b>)</b> or <b>(</b> ( <b>(</b> ))							<b>0</b> 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
Flow Dia	gram	or or		- <b>A</b>			-\frac{1}{\sqrt{\sq}\}}}}}}}}}} \end{\sqrt{\sq}}}}}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}}}} \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq		- A or - A or - A		
Flow Direction		Right or Left	Right	Left	Right	Left	Right	Left	Right or Left	Right	Left
Inlet Valve		V	V	V	V	V	V	V	V	V	V
Outlet Va	alve	_	_	_	_	_	_	_	V	V	V
Blowdown Valve		_	V	V	V	V	_	_	_	V	V
Test Valve		_	_	_	V	V	V	V	_	V	V
Available	Free Float	S3 / S5 / S5H									
Trap	rap Thermodynamic P46UC										
Units** Thermostatic L21 / L32											

#### Steam Trap Units Specifications\*\*

Steam Trap Office Specifications									
Free Float Steam 7 S3 / S5 / S5H	rap	Thermodynamic Stea P46UC	am Trap	Thermostatic Steam - L21 / L32	Ггар				
PMO: 2.1 / 3.2 / 4.6 MPaG	Cas	PMO: 4.6 MPaG		PMO: 2.1 / 3.2 MPaG	20				
TMO: 400 / 400 / 425 °C		TMO: 425 °C		TMO: 235 / 240 °C	E S				
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





ISO 9001/ISO 14001



<sup>\*</sup>At full-open position
\*\* Combined weight of trap station with mounted trap unit