

Vacuum Generator VRL

Ring blow type ejector for conveying particles, powder and fibers

⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

VRL	50	-	06	06	01
(1)	(2)		(3)	(4)	(5)

(1) Vacuum Generator VRL

(2) Vacuum characteristic

Code	Suction flow (ℓ/min [ANR])	Final vacuum (kPa)	Min. dia. of flow paths (mm)
50	50	-53	ø2.8
100	100	-53	ø4.1
200	200	-53	ø6
300	300	-53	ø7.5

*Rated supply pressure (0.5 MPa) is applied.

(3) Vacuum (Suction) port size (V)

■ Tube dia.

Code	mm size (mm)				
	06	08	10	12	16
Tube dia.	ø6	ø8	ø10	ø12	ø16

■ Thread size

Code	Taper pipe thread				NPT thread (Nipple B type only)			
	01	02	03	04	N1	N2	N3	N4
Thread size	R1/8	R1/4	R3/8	R1/2	NPT1/8	NPT1/4	NPT3/8	NPT1/2

(4) Air supply port size (P)

■ Tube dia.

Code	mm size (mm)		
	06	08	10
Tube dia.	ø6	ø8	ø10

■ Thread size

Code	Taper pipe thread		NPT thread (Nipple B type only)	
	01	02	N1	N2
Thread size	R1/8	R1/4	NPT1/8	NPT1/4

(5) Exhaust port size (EX)

■ Tube dia.

Code	mm size (mm)		
	08	12	16
Tube dia.	ø8	ø12	ø16 (Tube I.D. is over ø12 mm)

■ Thread size (Taper pipe thread)

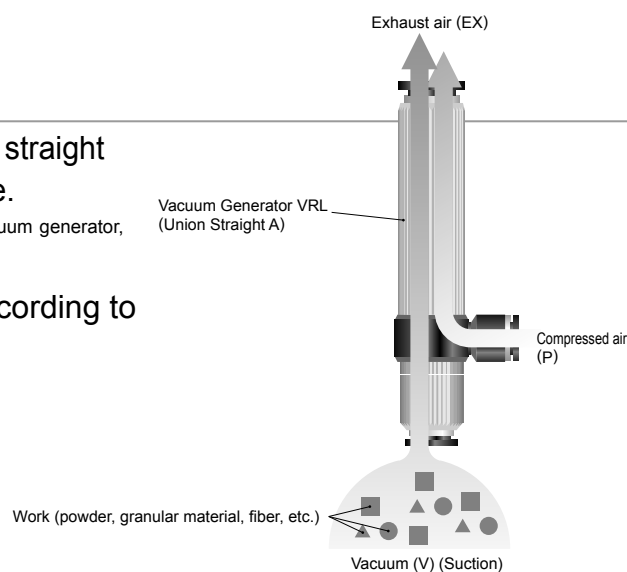
Code	Taper pipe thread			NPT thread (Nipple B type only)		
	01	02	04	N1	N2	N4
Thread size	R1/8	R1/4	R1/2	NPT1/8	NPT1/4	NPT1/2

Characteristics

The suction port and the exhaust port are located in straight line which make it possible to carry works in one line.

The works are sucked in from the suction port and pass through the inside of vacuum generator, which enables conveyance of works through a tube.

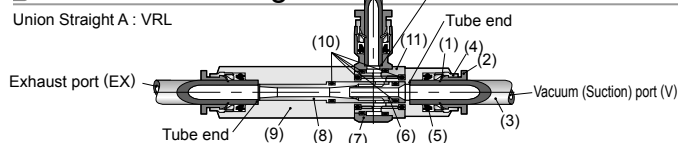
An optimal vacuum generator can be selected according to the work size.



Specifications

Fluid medium	Air, Inert gas
Operating pressure range	0 to 0.9 MPa
Rated supply pressure	0.5 MPa
Operating temp. range	0 to 60°C (No freezing)

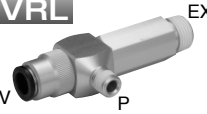
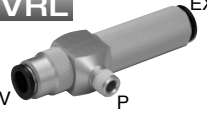
Sectional drawing



No.	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release-ring	POM
(3)	Tube	Polyurethane, Nylon, etc
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	NozzleA	Special stainless steel*
(7)	Resin body	PBT
(8)	NozzleB	Nickel-plated brass
(9)	Fitting body	Aluminum
(10)	O-ring	NBR
(11)	Metallic body	Nickel-plated brass

* Corrosion resistance of special stainless steel is equivalent to SUS303.

RoHS2 (2011/65/EU+EU2015/863) compliant

Type	Model code VRL[2]-V-P-EX	Type	Model code VRL[2]-V-P-EX	Type	Model code VRL[2]-V-P-EX
Straight A VRL 	VRL50-060601	Straight B VRL 	VRL50-010608	Straight C VRL 	VRL50-060101
	VRL50-080601		VRL50-010808		VRL50-080101
	VRL50-060801		VRL100-020812		VRL100-100202
	VRL50-080801		VRL100-021012		VRL100-120202
	VRL100-100802		VRL200-031016		VRL200-120204
	VRL100-120802		VRL200-041016		VRL200-160204
	VRL100-101002		VRL300-031016		VRL300-120204
	VRL100-121002		VRL300-041016		VRL300-160204
	VRL200-121004				
	VRL200-161004				
	VRL300-121004				
	VRL300-161004				
Type	Model code VRL[2]-V-P-EX	Type	Model code VRL[2]-V-P-EX	Type	Model code VRL[2]-V-P-EX
Straight D VRL 	VRL50-010108	Union Straight A VRL 	VRL50-060608	Union Straight B VRL 	VRL50-060108
	VRL100-020212		VRL50-060808		VRL50-080108
	VRL200-030216		VRL50-080608		VRL100-100212
	VRL200-040216		VRL50-080808		VRL100-120212
	VRL300-030216		VRL100-100812		VRL200-120216
	VRL300-040216		VRL100-120812		VRL200-160216
	VRL100-101012		VRL300-120216		
	VRL100-121012		VRL300-160216		
	VRL200-121016				
	VRL200-161016				
	VRL300-121016				
	VRL300-161016				
Type	Model code VRL[2]-V-P-EX	Type	Model code VRL[2]-V-P-EX		
Nipple type A VRL 	VRL50-010601	Nipple type B VRL 	VRL50-010101	VRL50-N1N1N1	
	VRL50-010801		VRL100-020202	VRL100-N2N2N2	
	VRL100-020802		VRL200-030204	VRL200-N3N2N4	
	VRL100-021002		VRL200-040204	VRL200-N4N2N4	
	VRL100-N2-3/8-N2*		VRL300-030204	VRL300-N3N2N4	
	VRL200-031004		VRL300-040204	VRL300-N4N2N4	
	VRL200-041004				
	VRL300-031004				
	VRL300-041004				
*V port: N2 (NPT1/4) P port: 3/8 (ø3/8") EX port: N2 (NPT1/4)					



CAD data is available
at PISCO website.



Packaging specifications
1 pc. /bag