

Vacuum Release Unit

Vacuum blow-off control valve equipped with blow-off air & pressure adjusting needles

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)



(1) Vacuum Release Unit

(2) VR port size (Vacuum generator side)

	Tube O.D. (mm)	
Code	4	6
Size	ø4	ø6

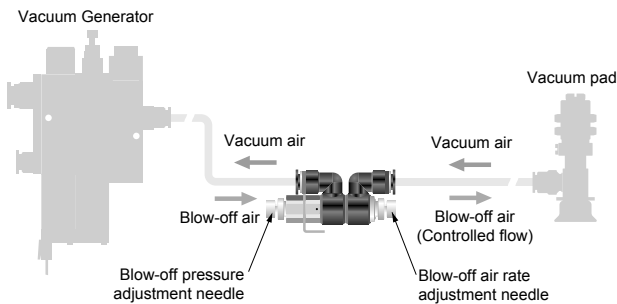
(3) W port size (Work-piece side)

	Tube O.D. (mm)		Taper pipe female thread
Code	4	6	01
Size	ø4	ø6	R1/8

* An installation bracket will be included if both (2) and (3) are push-in fitting types.

Characteristics

- This unit adjusts blow-off air, retaining vacuum generators' vacuum characteristics as they are.
- Blowing away of work-pieces can be prevented by added pressure adjusting function along with flow adjusting function.
- A relief mechanism in vacuum breaking circuit (the function to relieve extra pressure) allows for shorter vacuum breaking time.
- Tubes can be taken out freely in any direction by rotating resin body and joint parts.

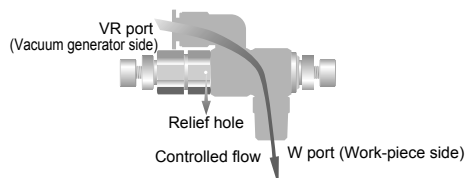


Specifications

Fluid medium	Air
Operating pressure range	0 to 0.7 MPa
Setting range of relief valve operating pressure	-0.015 to 0.015 MPa
Operating vacuum range	-101 to 0 kPa
Operating temp. range	0 to 60°C (No freezing)

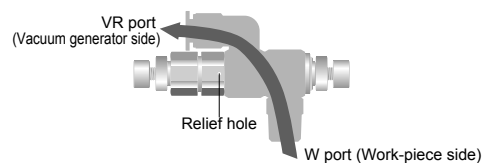
Control directions

Blow-off air



Blow-off air is controlled at the port on the vacuum generator side and is ejected via the port on the work-pieces side and through a relief hole.

Vacuum air



Vacuum air is not controlled at the port on the work pieces side and is ejected via the port on the vacuum generator side.

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

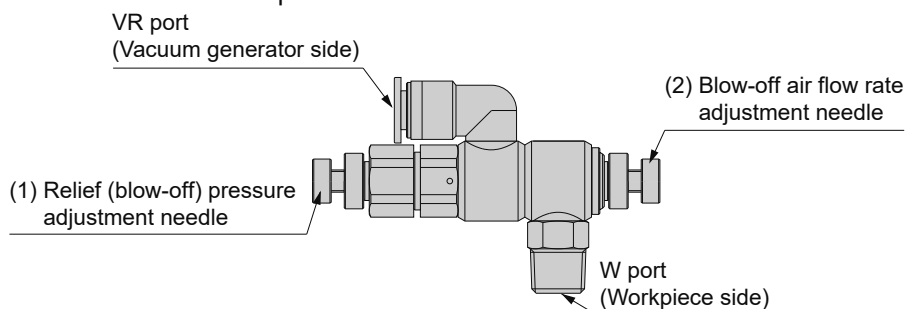
Type	Model code	Type	Model code
	VLF VR-W		VLF VR-W
VR port : Push-in fitting	VLF4-4	VR port : Push-in fitting	VLF4-01
W port : Push-in fitting	VLF6-6	W port : Taper pipe Thread	VLF6-01
VLF 		VLF 	

CAD data is available at PISCO website.

Packaging specifications
1 pc. /bag

■ How to adjust Vacuum Release Unit

1. First, set VR port to the vacuum generator side and W port to the workpiece side, then fully open (1) the relief pressure adjustment needle, and fully close (2) the blow-off air flow rate adjustment needle shown in the figure.
2. Create a vacuum with Vacuum Generator, gradually close (1) the needle to increase vacuum level, and check that there is no vacuum startup delay. Next, create a vacuum repeatedly, and if there are no issues, proceed to Step 3.
3. Create blow-off air with Vacuum Generator, then gradually open (2) the needle shown in the figure to optimize the blow-off air for the workpiece.



For tube insertion/disconnection and thread tightening, refer to the “Common Safety Instructions for Product Listed” of “Common Safety Instructions for Vacuum Accessories” on PISCO website. (<https://www.pisco.co.jp/en/product/j/cautions/>)