

Non-Standard Product

No. PHSPI 35-03

PISCO
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□ EJ319-9P

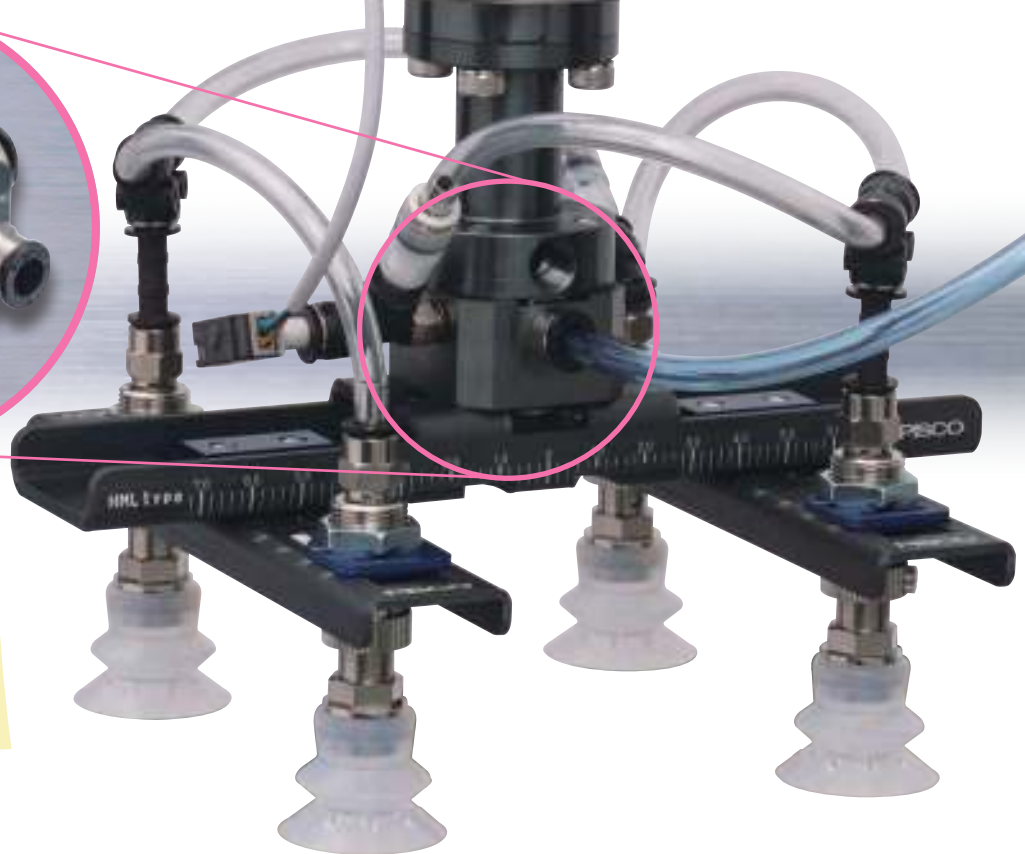
FOAT vacuum

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Vacuum generator VYR Direct-mounting on Robotic arm



Nozzle dia.
**1.0_{mm} & 1.2_{mm}
added!**



Lightweight and Compact design

Compact and low profile vacuum generator for mounting directly on the end of robot arm (P.C.D. 31.5) Height: Nozzle dia. 0.5 & 0.7mm ▶ .79" or 20mm
Nozzle dia. 1.0 & 1.2mm ▶ 1.1" or 28mm

Vacuum generator equipped with blow-off function

One air supply line enables vacuum-generating and blow-off.
Blow-off air volume and duration is adjusted by a needle.
No additional plumbing and wiring is needed.

Realizes high-speeding suction/blow-off cycle

Noises are below 75dB[A]

Nozzle dia. 0.5 & 0.7mm ▶ blow 65dB[A]

Nozzle dia. 1.0 & 1.2mm ▶ blow 75dB[A] (by our factory simple measurement)



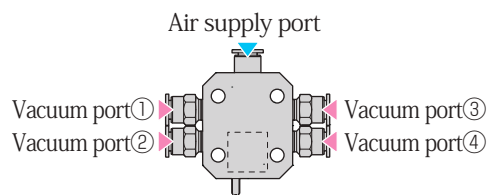
Characteristics

Nozzel dia. : 0.5mm&0.7mm Models

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Max. 4 vacuum ports

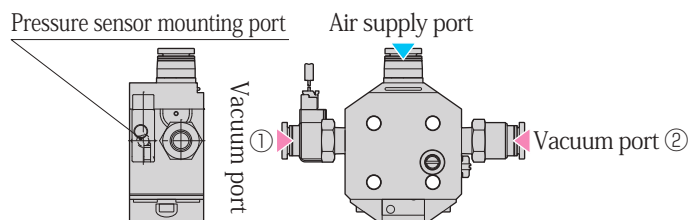
A pressure sensor can be mounted
(Max. 3 ports after pressure sensor installed)



※) Pressure sensor is not included.

Nozzle dia. : 1.0mm&1.2mm Models

Max. 2 vacuum ports + pressure sensor mounting port



※) Pressure sensor is not included.

Built-in blow-off air storage chamber

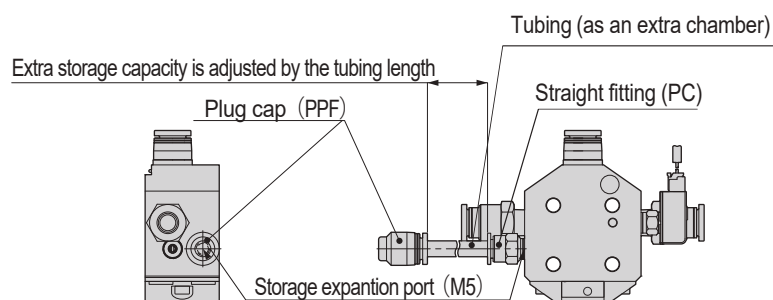
Nozzle dia. 0.5mm&0.7mm : 0.025si (0.404mℓ)

Nozzle dia. 1.0mm&1.2mm : 0.038si (0.615mℓ)

Only for nozzle dia. of 1.0mm&1.2mm

Storage of blow-off air is expandable

Extra storage chamber of blow-off air can be added by connecting a tubing with a plug cap



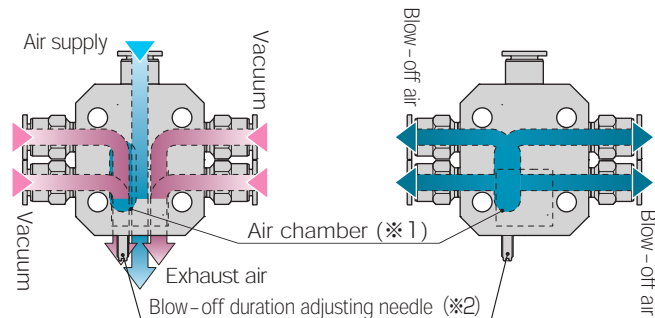
How it works

Nozzle dia. : 0.5mm&0.7mm Models

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■ Vacuum generating

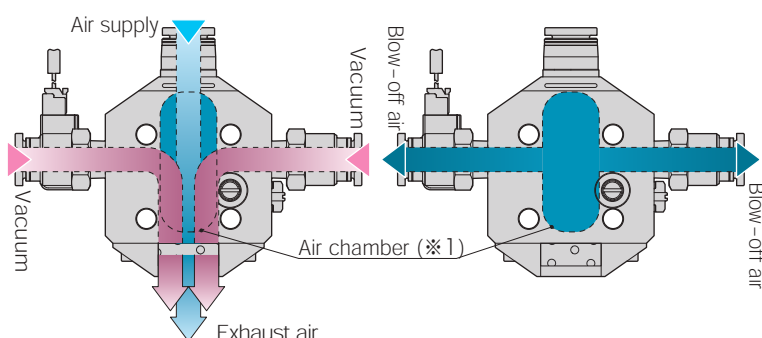
■ Blowing-off



Nozzle dia. : 1.0mm&1.2mm Models

■ Vacuum generating

■ Blowing-off



※ 1) Blow-off release is made by the air stored in the chamber

※ 2) Blow-off duration adjusting needle is for adjusting air volume in the built-in chamber.

Model Designation (Example)

VYR **H** **07** - **6** **6**

① EOAT vacuum generator

⑤ Air supply port

Code	1/4	4	6	8
Tubing O.D. (mm)	1/4"	ø4 (5/32")	ø6	ø8 (5/16")
Nozzle dia.	05	○	○	—
	07	○	○	—
	10	○	○	○
	12	○	○	○

④ Vacuum port

Code	1/4	3	4	6	1/4L	3L	4L	6L
Tubing O.D. (mm)	1/4"	ø3	ø4 (5/32")	ø6	1/4"	ø3	ø4 (5/32")	ø6
Port type	Straight				Elbow			

③ Nozzle diameter

Code	05	07	10	12
Nozzle dia. (mm)	ø0.5	ø0.7	ø1.0	ø1.2
Body height (mm)	20		28	

※) Body size is different between nozzle dia.
0.7mm or below and 1.0mm or larger

② Vacuum characteristic

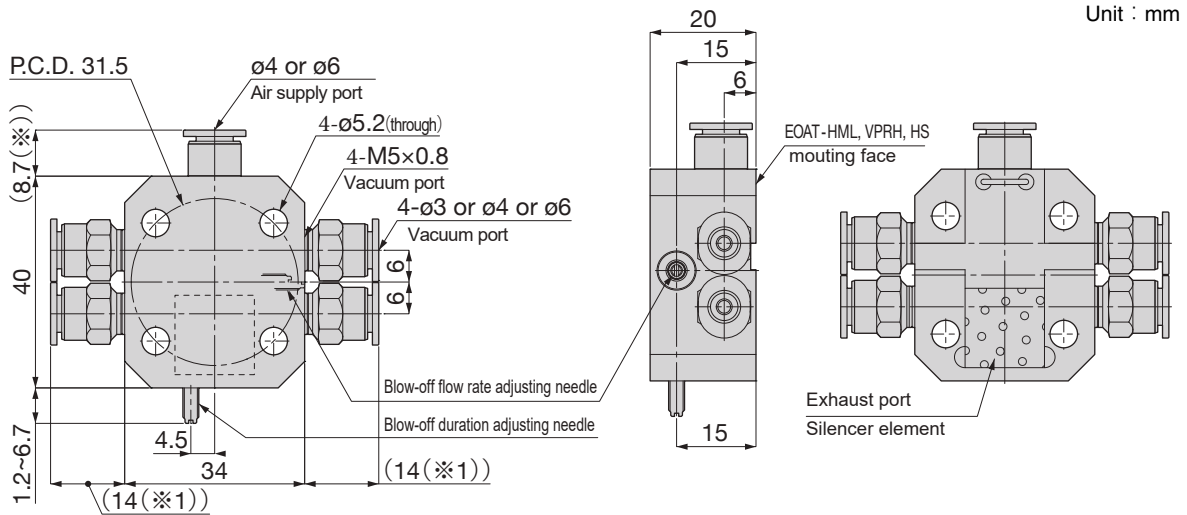
Code	H	L	E
Characteristic	High vacuum type	Large suction flow type	Low pressure air supply High vacuum type
Rated supply pressure (MPa)	0.5		0.35

Dimensions

Model : **VYR205-45**

VYR207-45

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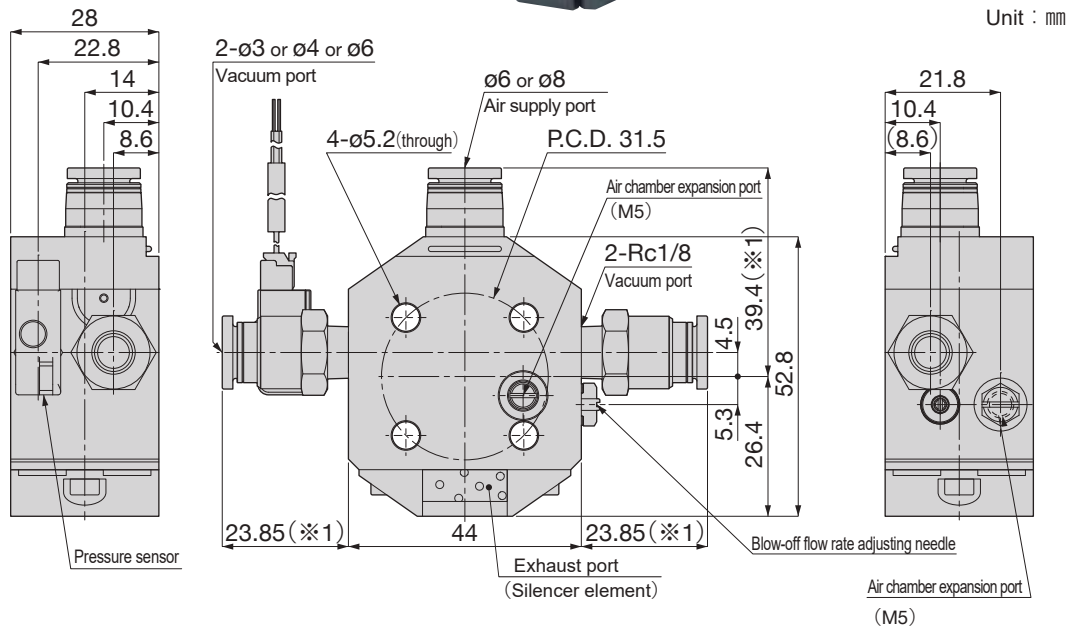


※1) Dimensions vary depending on the size and type of fittings.

※2) The weight is 66g which does not include the weight of vacuum port fittings.

Model : **VYR210-45**

VYR212-45



※1) Dimensions vary depending on size and type of fittings.

※2) End effector can be installed on either side

※3) The weight is 131g which does not include the weight of vacuum port fittings.





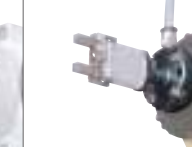



PISCO Products relevant to EOAT (End effectors)

HS type

▶ Mounting flange for one vacuum cup or one gripper

Line-up

Vacuum Lifters			Gripping		
					
Direct mounted vacuum cup	Spring level compensator	Low dust emission spring level compensator	Miniature angular gripper	Compact single acting parallel gripper	Compact parallel gripper Multi-acting

VPRH type

▶ Installable up to **4** vacuum cups

2 types

Heavy duty type

Light-weight type

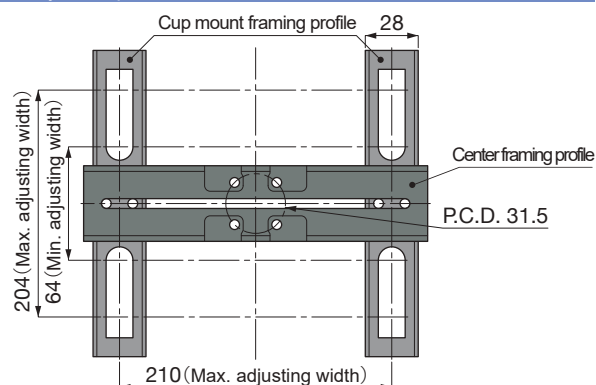


HML type

▶ Can accommodate up to **16** vacuum cups

- ▶ 2 different lengths each are offered for center framing and cup mount framing profile for flexible and functional frame assembly.
- ▶ The position of each vacuum cup can be adjusted.

Assembly example



※ For robots with max. payload 13 lbs. (6kgs) or below.

▶ Converting attachments are provided to fit in various robots.