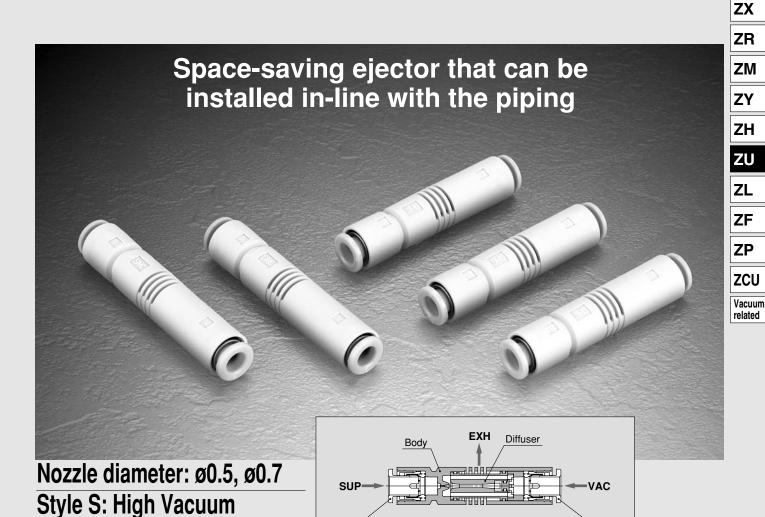


L: Large Flow Capacity

In-line Style Vacuum Ejector Series ZU



Vacuum port and supply port are located collinearly to facilitate piping

One-touch fitting

Lightweight construction achieved through the use of a resin body

Nozzle diameter ø0.5: **6.5g**

One-touch fitting

Ø0.7: 7.0g

■ The white colour matches bright operating environments

■ Built-in One-touch fittings (copper free measures taken)

3.6-1



⚠ Precautions

Be sure to read before handling.

Refer to p.0-20 and 0-21 for Safety Instructions and common precautions on the products mentioned in this catalogue, and refer to p.3.0-2 for precautions on every series.

Installation

Make sure that an excessive loads or moments are not applied to the ejector body because of pipe connections.

Matching The Ejector to The Vacuum Circuit

⚠ Caution

For precautions associated with the matching the ejector to the vacuum circuit, refer to the technical data in "Best Pneumatics 3".

Handling One-touch Fittings

⚠ Caution

Installing and removing a tube with a One-touch fitting

1) Installing a tube

- ① Cut a tube at a right angle. The tube must not have any cuts on its periphery. Use tube cutter TK-1, 2, or 3. Do not use a pair of pliers, nippers, or scissors because they could result in an uneven cut or cause the tube to become flattened. As a result, it might not be possible to connect the tube, or after the tube has been connected, it could pull out or allow air to leak. Make sure to cut the tube at a sufficient length.
- ② Grasp the tube, push it in slowly, and make sure to insert it all the way.
- ③ After inserting the tube all the way, lightly pull on the tube to make sure that it does not pull out. If the tube is not inserted all the way, it could pull out or cause air leakage.

2) Removing a tube

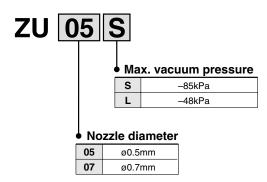
- Fully push in the release bushing. At the same time, push the collar evenly.
- ② Keeping the release bushing pushed so that it will not retract, pull out the tube. If the release bushing is not pushed in sufficiently, it could wedge in further, making it difficult to pull out the tube.
- ③ The removed tube can be reused by cutting off the portion that was wedged in. If the tube is reused without cutting off the wedged portion, it could lead to air leakage, or the inability to remove the tube.

In-line Style Vacuum Ejector

Series **ZU**



How to Order



Circuit



Specifications

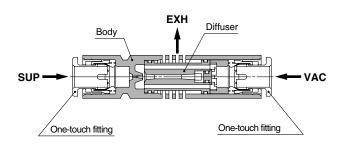
| Fluid | Air | | | |
|-----------------------------|---------------------------|--|--|--|
| Max. operating pressure | 0.7MPa | | | |
| Standard supply pressure | 0.45MPa | | | |
| Operating temperature range | 5 to 60°C | | | |
| Applicable tube O. D. | SUP port: ø6 VAC port: ø6 | | | |

Model

| Style | Model | Nozzle dia. (mm)ø | Max. vacuum pressure* (kPa) | Max. suction flow (\ell/min) | Air consumption (e/min) | Weight (g) |
|---------------------|-------|----------------------|-----------------------------|------------------------------|-------------------------|------------|
| High vacuum | ZU05S | 0.5 | -85 | 7 | 9.5 | 6.5 |
| | ZU07S | 0.7 | -85 | 12 | 19.0 | 7.0 |
| Large flow capacity | ZU05L | 0.5 | -48 | 12 | 9.5 | 6.5 |
| | ZU07L | 0.7 | -48 | 21 | 19.0 | 7.0 |

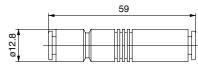
*Supply pressure: 0.45MPa

Construction

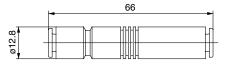


Dimensions

ZU05S/ZU05L



ZU07S/ZU07L





ZX

ZR

ZY

ZH

ZU

20

ZL

ZF

ZP

ZCU

Vacuum related

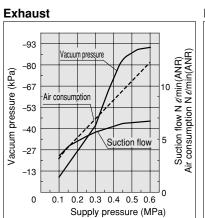
Exhaust Characteristics/Flow Characteristics

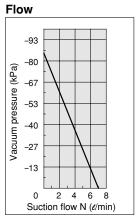
Flow characteristics: At 0.45MPa

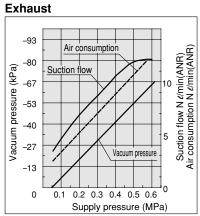
ZU05S

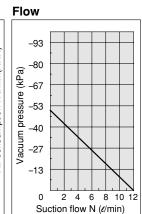
Max. vacuum pressure: -85kPa

Max. vacuum pressure: -48kPa









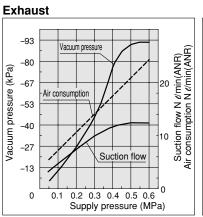
ZU07S

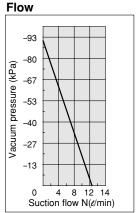
Max. vacuum pressure: -85kPa

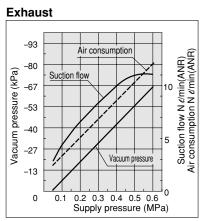
ZU07L

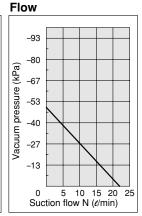
ZU05L

Max. vacuum pressure: -48kPa

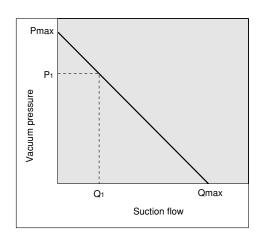








How to Read Graphs



Flow characteristics are expressed in ejector vacuum pressure and suction flow. If suction flow rate changes, the change in vacuum pressure will also be noticed. Normally this relationship is expressed in ejector standard use. In the graph, Pmax is max. vacuum pressure and Qmax is max. suction flow. The values are specified according to the catalogue. Changes in vacuum pressure are expressed in the order below.

- ①When ejector suction flow becomes 0, vacuum pressure is at maximum (Pmax).
- ②When suction port is opened gradually, air can flow through, (air leakage), suction flow increases, but vacuum pressure decreases. (condition P1 and Q1)
- ③When suction port is opened further, suction flow moves to maximum value (Qmax), but vacuum pressure approaches 0 (atmospheric pressure).

When vacuum port (vacuum piping) has no leakage, vacuum pressure becomes maximum. Vacuum pressure decreases as leakage increases. When leakage amount equals max. suction flow, vacuum pressure is near 0. In the case when ventirative or leaky work should be adsorbed, please note that vacuum pressure will not be high.