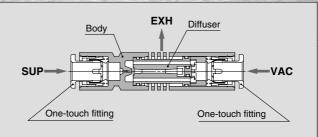


Vacuum Ejector In-line Type Series ZU



Nozzle diameter: Ø0.5, Ø0.7 Type S: High vacuum type L: Large flow type



 Vacuum port and supply port are located collinearly to facilitate piping
 Lightweight construction achieved through the use of a resin body Nozzle diameter Ø0.5: 6.5 g

ø0.7: **7.0 g**

- The white color matches bright operating environments
- Built-in One-touch fittings (copper-free measures implemented)

Series **ZU**

APrecautions

Be sure to read before handling. Refer to pages 13-15-3 to 13-15-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to page 13-1-5 for Precautions on every series.

Mounting

▲Caution

Make sure that 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 matching the ejector to the vacuum circuit, refer to the technical data on page 13-1-10 to 13-1-19.

Handling of One-touch Fittings

Caution

Connection and disconnection of the tube with Onetouch fitting

1. Installing of the tube

- Cut the tubing at a right angle. The tube must not have any cuts on its periphery. Use a 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 tubing, or after the tube has been connected, it could pull out or allow air to leak. Make sure to cut the tube with sufficient length.
- 2) Grasp the tube, push it in slowly, and make sure to insert it to the hilt.
- 3) After inserting the tube to the hilt, pull the tube lightly to make sure that it will not come out. If the tube is not inserted all the way, it could be pulled out or cause air leakage.

2. Removing of the tube

- 1) 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 tubing is reused without cutting off the wedged portion, it could lead to air leakage, or the inability to remove the tube.



How to Order

ZU 05 S					
		S –85 kPa			
		L –48 kPa	ZH		
Nozzle diameter					
	05	0.5 mm	ZL		
	07	0.7 mm	~~~		
			ZY		
ns			ZQ		
			76		
		Air	ZF		

Circuit diagram



Specifications

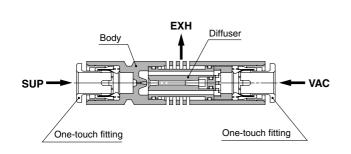
Fluid	Air		
Maximum operating pressure	0.7 MPa		
Standard supply pressure	0.45 MPa		
Operating temperature range	5 to 60°C		
Applicable tubing O.D.	SUP port: ø6 VAC port: ø6		

Model

Туре	Model	Nozzle diameter (mm)ø	Max. vacuum pressure * (kPa)	Maximum suction flow rate (ɛ/min(ANR))	Air consumption (d/min(ANR))	Weight (g)
High vacuum type	ZU05S	0.5	-85	7	9.5	6.5
	ZU07S	0.7	-85	12	19.0	7.0
Large flow type	ZU05L	0.5	-48	12	9.5	6.5
	ZU07L	0.7	-48	21	19.0	7.0

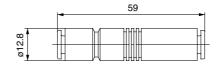
* Supply pressure: 0.45 MPa

Construction

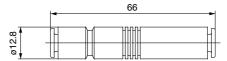


Dimensions

ZU05S/ZU05L



ZU07S/ZU07L



ZΡ

ZCU

AMJ

Misc.

Exhaust Characteristics/Flow Characteristics

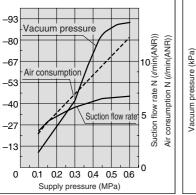
ZU05S

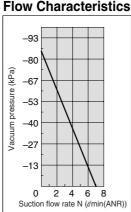
pressure (kPa)

Vacuum

Max. vacuum pressure: -85 kPa

Exhaust Characteristics

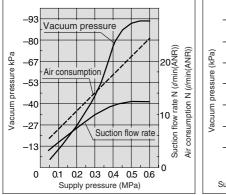




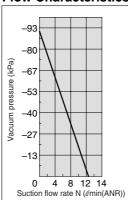
ZU07S

Max. vacuum pressure: -85 kPa





Flow Characteristics



ZU05L

-93

-80

-67

-53

-40

-27

-13

0

ZU07L

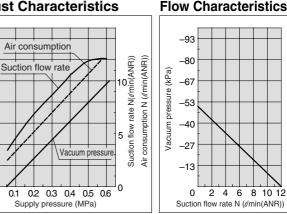
(kPa)

pressure

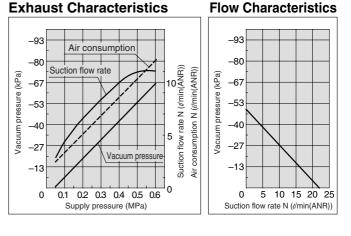
/acuum

Max. vacuum pressure: -48 kPa

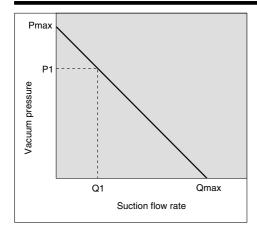
Exhaust Characteristics



Max. vacuum pressure: -48 kPa



How to Read Flow Characteristics Graph



Flow characteristics are expressed in ejector vacuum pressure and suction flow. If suction flow rate changes, a 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 catalog.

Changes in vacuum pressure are expressed in the order below.

多SMC

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

When ventirative or leaky work must be adsorbed, please note that vacuum pressure will not be high.

