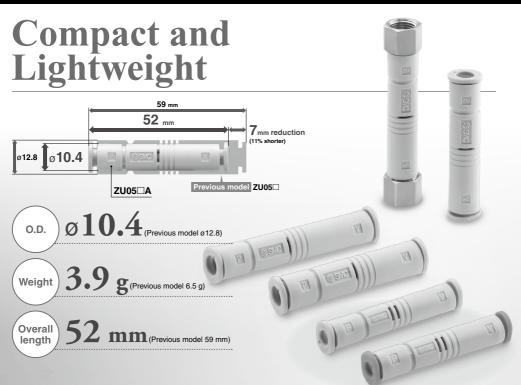
In-line Type Vacuum Ejector

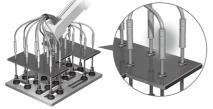
ZU A Series





Application Examples

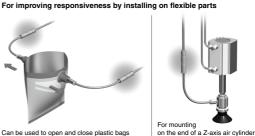
For preventing pad adsorption failures from the vacuum source



Numerous pads can be used to adsorb workpieces with holes.



Can be used to open and close plastic bags

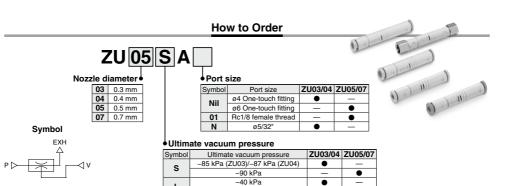


Variations

Model Nozzle size Standard supply		Ultimate vacuum pressure [kPa]		Maximum suction flow rate [L/min (ANR)]		Air consumption	Port size	
woder	[mm]	pressure [MPa]	Type S	Type L	Type S	Type L	[L/min (ANR)]	POILSIZE
ZU03⊟A	0.3	0.35	-85	-40	1.8	3.4	4.2	ø4 One-touch fitting
ZU04⊟A	0.4		-87		3.2	5.8	7.7	ø5/32"
ZU05 A	0.5	0.45	-90	-48	7	13	14	ø6 One-touch fitting
ZU07⊡A	0.7				11	16	28	Rc1/8

In-line Type Vacuum Ejector **ZU**A Series

RoHS



-48 kPa

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Specifications

Operating temperat	ture range	-5 to 50°C (No freezing)		
Fluid		Air		
Applicable tubing r	naterial	FEP, PFA, Nylon, Soft nylon, Polyurethane		
Operating pressure range		0.1 to 0.6 MPa		
Standard supply ZU03/04		0.35 MPa		
pressure	ZU05/07	0.45 MPa		

L

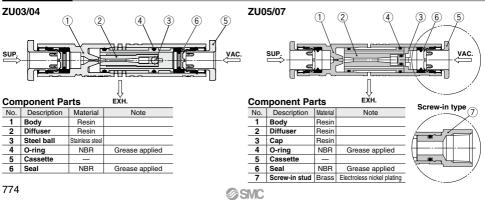
Ejector Specifications*1

Model	Nozzle diameter [mm]	Ultimate vacuum pressure*2 [kPa]				Air consumption*2	Weight [g]	
		Type S	Type L	Type S	Type L	[L/min (ANR)]	One-touch connection	Screw-in connection
ZU03⊡A	0.3	-85	-40	1.8	3.4	4.2	2.4	_
ZU04□A	0.4	-87	-40	3.2	5.8	7.7		
ZU05 A	0.5	-90	-48	7	13	14	3.9	18.6
ZU07⊡A	0.7	-90	-40	11	16	28	4.3	19.1

*1 The values indicating characteristics are representative values, and may vary depending on the atmospheric pressure (weather, altitude, etc.) and measurement method.

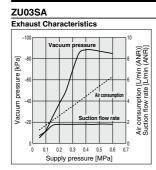
*2 Standard supply pressure

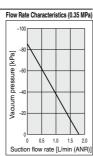
Construction

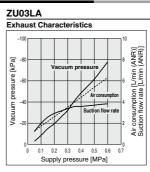


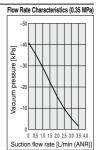
Exhaust Characteristics/Flow Rate Characteristics (Representative Value)

(Flow rate characteristics: Standard supply pressure)



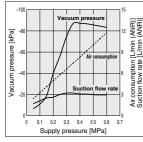




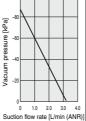




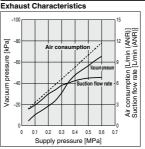
Exhaust Characteristics



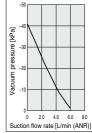




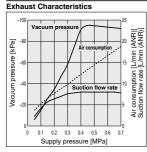
ZU04LA



Flow Rate Characteristics (0.35 MPa)

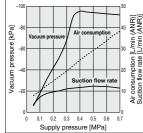


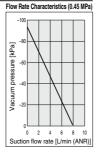
ZU05SA

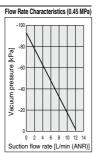


ZU07SA

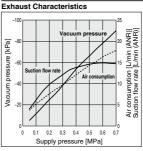




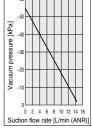




ZU05LA

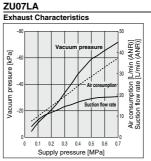


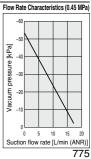
[kPa] -30



Flow Rate Characteristics (0.45 MPa)

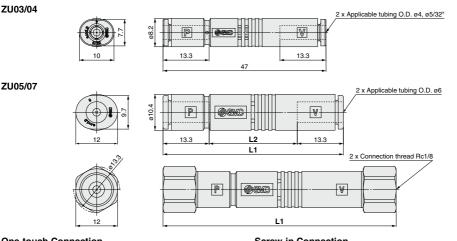
-60





ZU A Series

Dimensions



a taugh Connection

One-touch Con	nection		Screw-III Connection		
Model	L1	L2	Model	L1	
ZU05 A	52	25.4	ZU05□A01	67.2	
ZU07⊟A	59	32.4	ZU07□A01	74.2	

▲ Specific Product Precautions

I Be sure to read this before handling the products. Refer to page 33 for safety instructions and pages 34 to 36 I I for vacuum equipment precautions.

Mounting

∧ Caution

1. When the product is mounted in between piping, the piping on both the P port side and the V port side should be adequately supported in order to avoid any unnecessary load from the piping being applied to the product.

Failure to do so may lead to performance issues or damage to the body of the product.

When mounting the product, please do not block the exhaust port at the center of the body as this may cause performance issues.

Piping

▲ Caution

1. Piping diameter

The piping diameter we recommend for each port is the same as that of the standard size One-touch fitting. If the piping diameter is reduced, it may lead to an insufficient flow of supply air, a reduction in suction flow, or a reduction in the ultimate vacuum pressure.

Model Selection

∧ Caution

1. Supply valve

Select a supply valve which can provide a sufficient flow rate with ejector air consumption taken into account. If the flow rate of the supply valve is insufficient, it may lead to vacuum failure. The selected supply valve should have a C factor of at least that shown in the table below.

Minimum C Factor of a Supply Valve

- - - - - - - -

Model	C [dm3/(s·bar)]
ZU03	0.04
ZU04	0.08
ZU05	0.12
ZU07	0.23

Air Supply

∧ Caution

1. Quality of supply air

Use clean compressed air as the fluid. (Air quality class 2:4:3. 2:5:3, or 2:6:3 as specified in ISO 8573-1:2010 is recommended.) If any impurities enter the product, vacuum performance might be reduced due to the deterioration of the air passage or clogging of the exhaust system.

