

# Встраиваемый в линию эжектор

# ZU

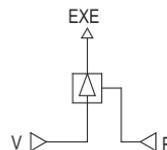
Предназначен для создания вакуума посредством сжатого воздуха.

- Лёгкая, компактная конструкция.
- Диаметр сопла  $\varnothing 0.5$ ,  $\varnothing 0.7$
- Подвод сжатого воздуха находится на одной линии с отводом вакуума

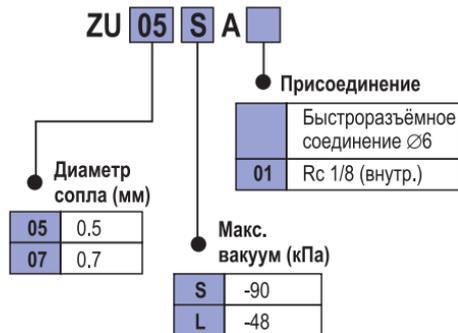
## Технические характеристики

Исполнение	S - высокое разрежение		L - высокая производительность	
Тип	ZU05SA	ZU07SA	ZU05LA	ZU07LA
Рабочая среда	Очищенный сжатый воздух без содержания масла			
Максимальный вакуум * (кПа)	-90		-48	
Диапазон рабочего давления (МПа)	0.1 ~ 0.6			
Стандартное рабочее давление (МПа)	0.45			
Диапазон температур (°C)	-5 ~ 50			
Диаметр сопла (мм)	0.5	0.7	0.5	0.7
Вакуумный расход (норм.л/мин)	7	11	13	16
Потребление сжатого воздуха (норм.л/мин)	14	28	14	28
Присоединительный размер	Подвод воздуха	$\varnothing 6$ , Rc 1/8 (внутр.)		
	Отвод вакуума	$\varnothing 6$ , Rc 1/8 (внутр.)		
Вес (г)	3.9	4.3	3.9	4.3

\* Давление на входе: 0.45 МПа



## Номер для заказа



# In-line Type Vacuum Ejector New

RoHS

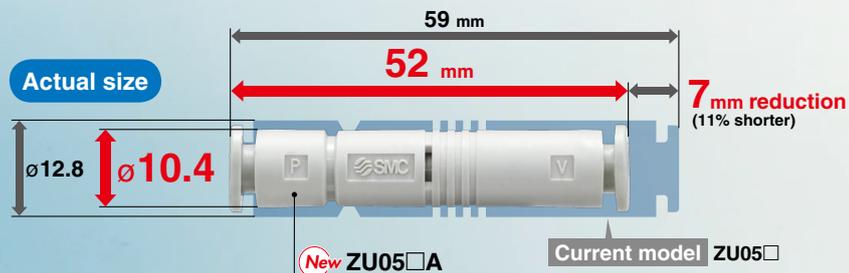
## Compact and Lightweight

New female thread type

**O.D.** ø10.4 / (Current model ø12.8)

**Weight** 3.9 g / (Current model 6.5 g)

**Overall length** 52 mm / (Current model 59 mm)



### Variations

Model	Nozzle size [mm]	Vacuum pressure reached*1 [kPa]		Maximum suction flow rate [L/min(ANR)]		Air consumption [L/min(ANR)]	Port size
		Type S	Type L	Type S	Type L		
ZU05□A	0.5	-90	-48	7	13	14	ø6 One-touch fitting Rc1/8
ZU07□A	0.7			11	16		

\*1 Supply pressure: 0.45 MPa

## ZU□A Series



CAT.ES100-118A

# In-line Type Vacuum Ejector

## ZU□A Series



### How to Order

ZU 05 S A □

• Nozzle diameter

05	0.5 mm
07	0.7 mm

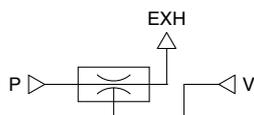
• Port size

Nil	ø6 One-touch fitting
01	Rc1/8 female thread

• Vacuum pressure reached

S	-90 kPa
L	-48 kPa

Symbol



### Specifications

Operating temperature range	-5 to 50°C (No freezing)
Fluid	Air
Applicable tubing material	FEP, PFA, Nylon, Soft nylon, Polyurethane
Operating pressure range	0.1 to 0.6 MPa
Standard supply pressure	0.45 MPa

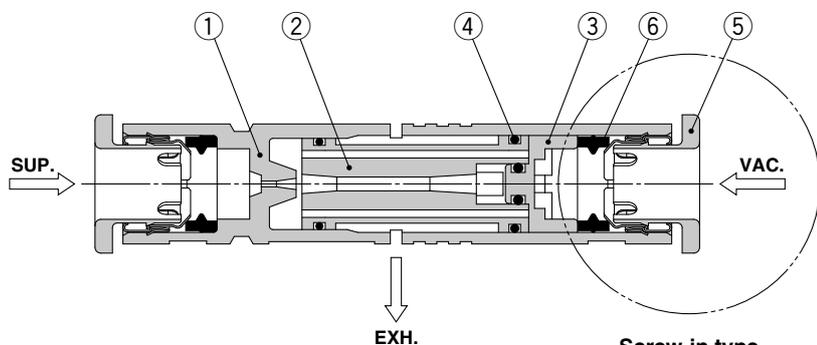
### Ejector Specifications<sup>\*1</sup>

Model	Nozzle diameter [mm]	Vacuum pressure reached <sup>*2</sup> [kPa]		Maximum suction flow rate <sup>*2</sup> [L/min(ANR)]		Air consumption <sup>*2</sup> [L/min(ANR)]	Weight [g]	
		Type S	Type L	Type S	Type L		One-touch connection	Screw-in connection
ZU05□A	0.5	-90	-48	7	13	14	3.9	18.6
ZU07□A	0.7	-90	-48	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.).

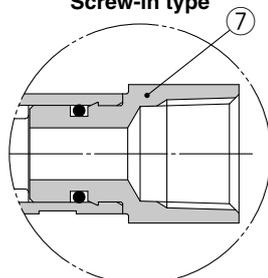
\*2 Supply pressure: 0.45 MPa

### Construction



### Component Parts

No.	Description	Material	Note
1	Body	PBT	
2	Diffuser	PBT	Type S: White, Type L: Black
3	Cap	POM	
4	O-ring	NBR	Grease applied
5	Cassette	—	
6	Seal	NBR	Grease applied
7	Screw-in stud	Brass	Electroless nickel plating



### ⚠ Precautions

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For vacuum equipment precautions, refer to the “Handling Precautions for SMC Products” and the “Operation Manual” on the SMC website: <http://www.smcworld.com>

### Mounting

#### ⚠ Caution

1. When the product is mounted in between piping, the piping on both the P port and V port should be adequately supported to avoid causing unnecessary loading and stressing of the product which 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 for each port should be the standard size of One-touch fitting. If the piping diameter is reduced, it may lead to insufficient flow of supply air, reduction of suction flow and reduction in the vacuum pressure.

### Model Selection

#### ⚠ Caution

##### 1. Supply valve

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

#### Minimum C Factor of a Supply Valve

Model	C [dm <sup>3</sup> /(s·bar)]
ZU05	0.12
ZU07	0.23

### Air Supply

#### ⚠ Caution

##### 1. Quality of supply air

Use clean compressed air as fluid. (Air quality class 2 : 4 : 3, 2 : 5 : 3, or 2 : 6 : 3 as specified in ISO 8573-1: 2010 is recommended.)

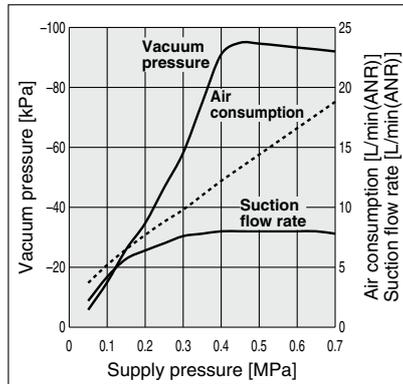
If impurity enters the product, vacuum performance might be reduced due to deterioration of air passage and clogging of exhaust system.

## Exhaust Characteristics/Flow Rate Characteristics (Representative value)

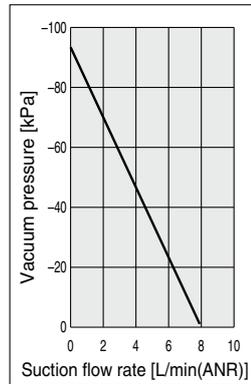
(Flow rate characteristics: Supply pressure: 0.45 MPa)

### ZU05SA

#### Exhaust Characteristics

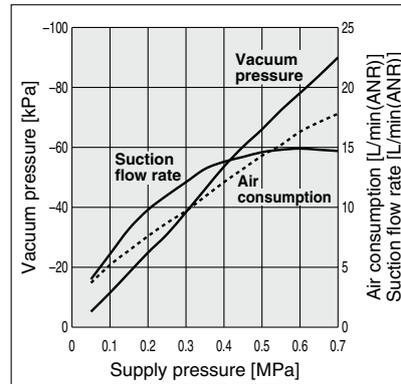


#### Flow Rate Characteristics

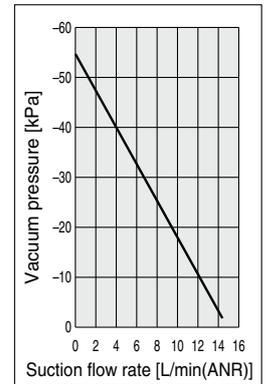


### ZU05LA

#### Exhaust Characteristics

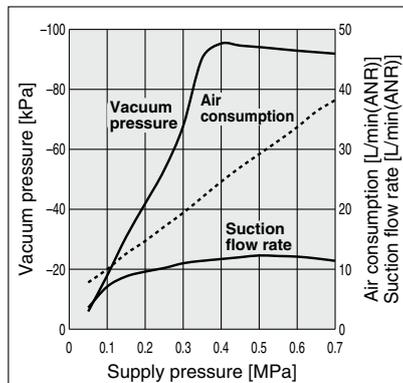


#### Flow Rate Characteristics

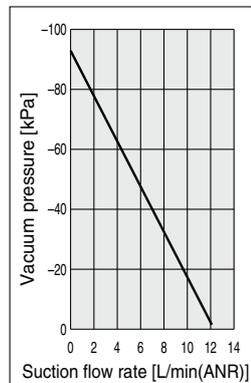


### ZU07SA

#### Exhaust Characteristics

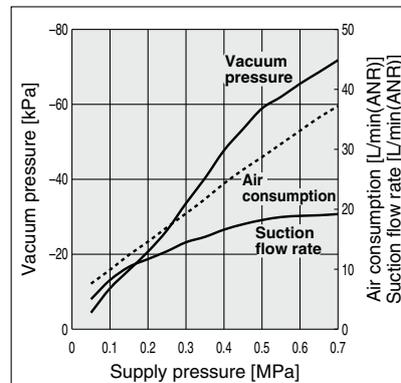


#### Flow Rate Characteristics

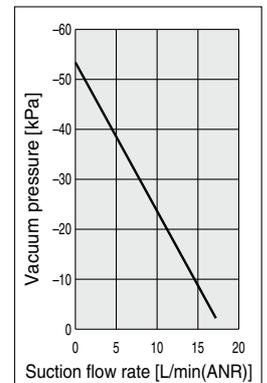


### ZU07LA

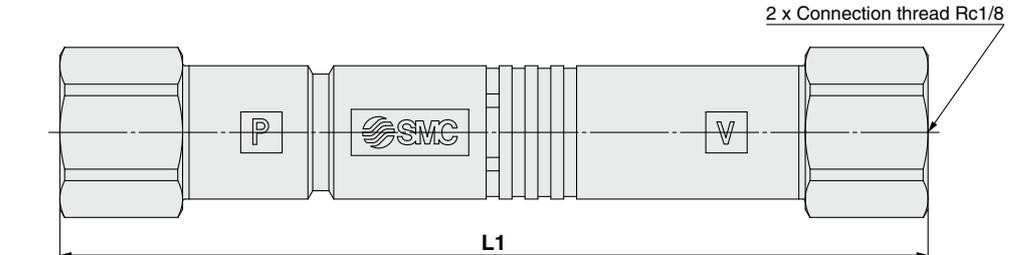
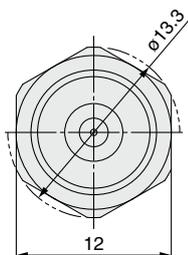
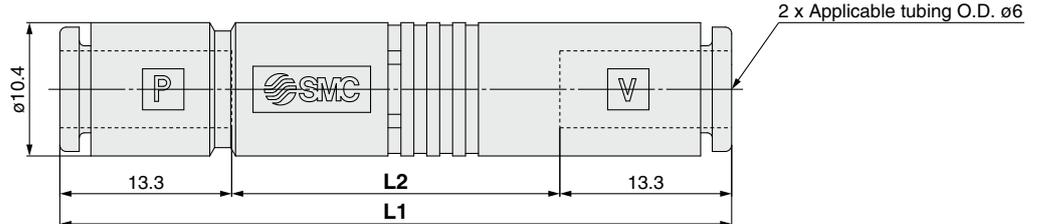
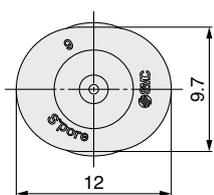
#### Exhaust Characteristics



#### Flow Rate Characteristics



## Dimensions



### One-touch Connection

Model	L1	L2
ZU05□A	52	25.4
ZU07□A	59	32.4

### Screw-in Connection

Model	L1
ZU05□A01	67.2
ZU07□A01	74.2