

Series ZX

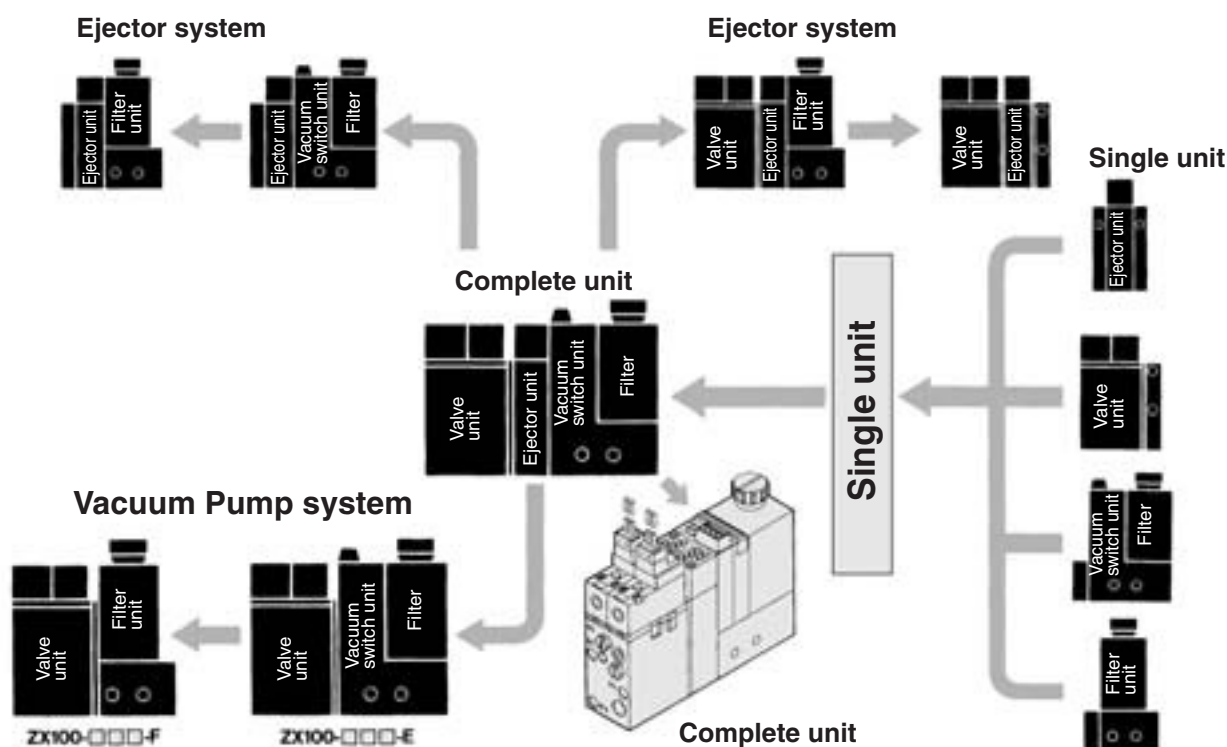
For electronic components and precision components up to 100 g

■ Modular design

Customized application function through selection of module components.

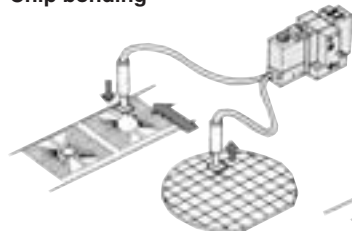
■ Compact size and lightweight (120 g with complete unit); well suitable for actuator mounting

■ Ejector nozzle size: $\varnothing 0.5$ to $\varnothing 1.0$ (Suction flow: 5 to 22 ℓ/min (ANR))

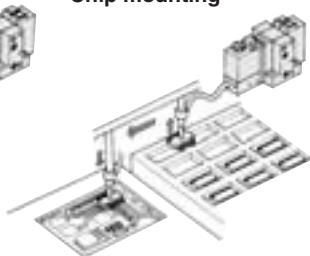


Application Example

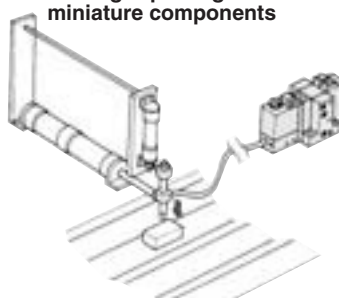
Chip bonding



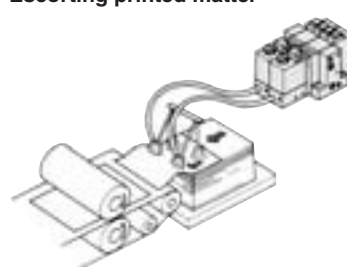
Chip mounting



Picking & placing
miniature components



Escorting printed matter



Vacuum Module: Ejector System Series ZX



How to Order

Components

Ejector unit	Valve unit N.C. type	Vacuum switch unit
Ejector unit	Valve unit N.O. type	Vacuum switch unit
Ejector unit		Filter unit

Ejector unit nozzle dia.

05	0.5 mm
07	0.7 mm
10	1.0 mm

Ejector exhaust

1	With silencer
2 ⁽¹⁾	Port exhaust Rc 1/8
3 ⁽²⁾	Common exhaust (Manifold only)

Note 1) When port exhaust is applied to the manifold, pilot exhaust is done by common exhaust. Thus, the exhaust port on the manifold base should be open while operating.
Note 2) When the product is used for the manifold specification and common exhaust, the exhaust air of the operating ejector releases may enter the vacuum (V) port of the non-operating ejector and be released if there are an operating and non-operating ejector. Select either the built-in silencer or port exhaust for the ejector exhaust method.

Valve unit/Combination of supply valve and release valve
Refer to "Table (1)" on page 867.

Pilot valve

Nil	DC: 1 W (With indicator light: 1.05 W)
Y *	DC: 0.45 W (With indicator light: 0.5 W)

* Only 24 VDC and 12 VDC are applicable to 0.45 W.

Solenoid valve rated voltage

1 * Note)	100 VAC 50/60 Hz
3 * Note)	110 VAC 50/60 Hz
5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC
Nil	Air operated (K6, K8, J3, J4, D3, D4)

Note) CE marked products are not available for "1" and "3".
* Applicable to plug connector only.
(Connector assembly with rectifier is attached.)

Electrical entry

L	Plug connector type	Lead wire length 0.3 m
LN	Plug connector type	Without lead wire (Applicable to DC only)
LO		Without connector
M		Lead wire length 0.3 m
MN		Without lead wire (Applicable to DC only)
MO	Grommet type	Without connector
G		Lead wire length 0.3 m (Applicable to DC only)
H		Lead wire length 0.6 m (Applicable to DC only)
Nil		Air operated

Note) In the case of "K1" or "J1" (combination of supply and release valves), M type plug connector can not be used.

Ordering Example:

ZX1 10 1 - K1 5 L Z - E C - L -

CE compliant

Nil	—
Q	CE marked

PV/V port size

Nil	M5 x 0.8
Y	M6 x 1 (Option)

Release flow rate adjusting needle

Nil	Without lock nut
L	With lock nut

Vacuum switch electrical entry

Nil	Grommet type	Lead wire length 0.6 m
L	Connector type	Lead wire length 3 m
C		Lead wire length 0.6 m
CL		Lead wire length 3 m
CN		Without connector (Without lead wire)

• Refer to "Table (3)" on page 867 for part number of lead wire with connector.

Vacuum switch unit/Filter unit

E	Vacuum switch (For general purpose)(ZSE2)(NPN)	With suction filter
E55	Vacuum switch (For general purpose)(ZSE2)(PNP)	
PS Note)	Adsorption confirmation switch (ZSP1)	
PB Note)	Nozzle dia. (ø0.5 to 1.2)	
F	Only suction filter	

Note) CE marked products are not available for "PS" and "PB".

Vacuum digital pressure switch unit (ZSE3)

D	21	2 outputs/without analog output
	22	2 outputs/with analog output
	23	1 output (with trouble detection)/without analog output
	24	1 output (with trouble detection)/with analog output

Note) Analog output is available only on grommet type.

Manual operation

Nil	Non-locking push type
B	Locking slotted type

Light/Surge voltage suppressor

Nil	None
Z	With light/surge voltage suppressor
S *	With surge voltage suppressor

* S is not available for AC.
DC voltage (with surge voltage suppressor)
If the polarity is incorrect at DC (surge voltage suppressor), diode or switching element may be damaged.

• Refer to "Table (2)" on page 867 for part number of lead wire with connector.
• Refer to page 894 for ordering the manifold.
• Refer to pages 924 and 925 for ordering a unit for replacement.

Caution

When using the AC type, the DC solenoids are operated via a rectifier. Therefore, when using this type, make sure to combine the connector assembly equipped with a rectifier with the exclusive solenoids. Using other combinations could lead to burned coils or other types of malfunctions.

Caution

Surge voltage suppressor

Light/Surge voltage suppressor

Using the DC type:
Match the polarity of the connectors according to the ⊕ and ⊖ marks on the connectors. Do not interchange the polarities to prevent the diodes or the switching elements from becoming burned.
If lead wires are pre-connected, the red wire is ⊕ and the black wire is ⊖.

Using the AC type:
The AC type is not equipped with a surge voltage suppressor because the rectifier assembly prevents the generation of surge voltage.

The filter mounted on the product is a simplified one. When used in an environment with a lot of dust, the filter is likely to be clogged quickly. The use with the series ZFA, ZFB and ZFC is recommended.

Made to Order
(Refer to pages 930 to 934 for details.)