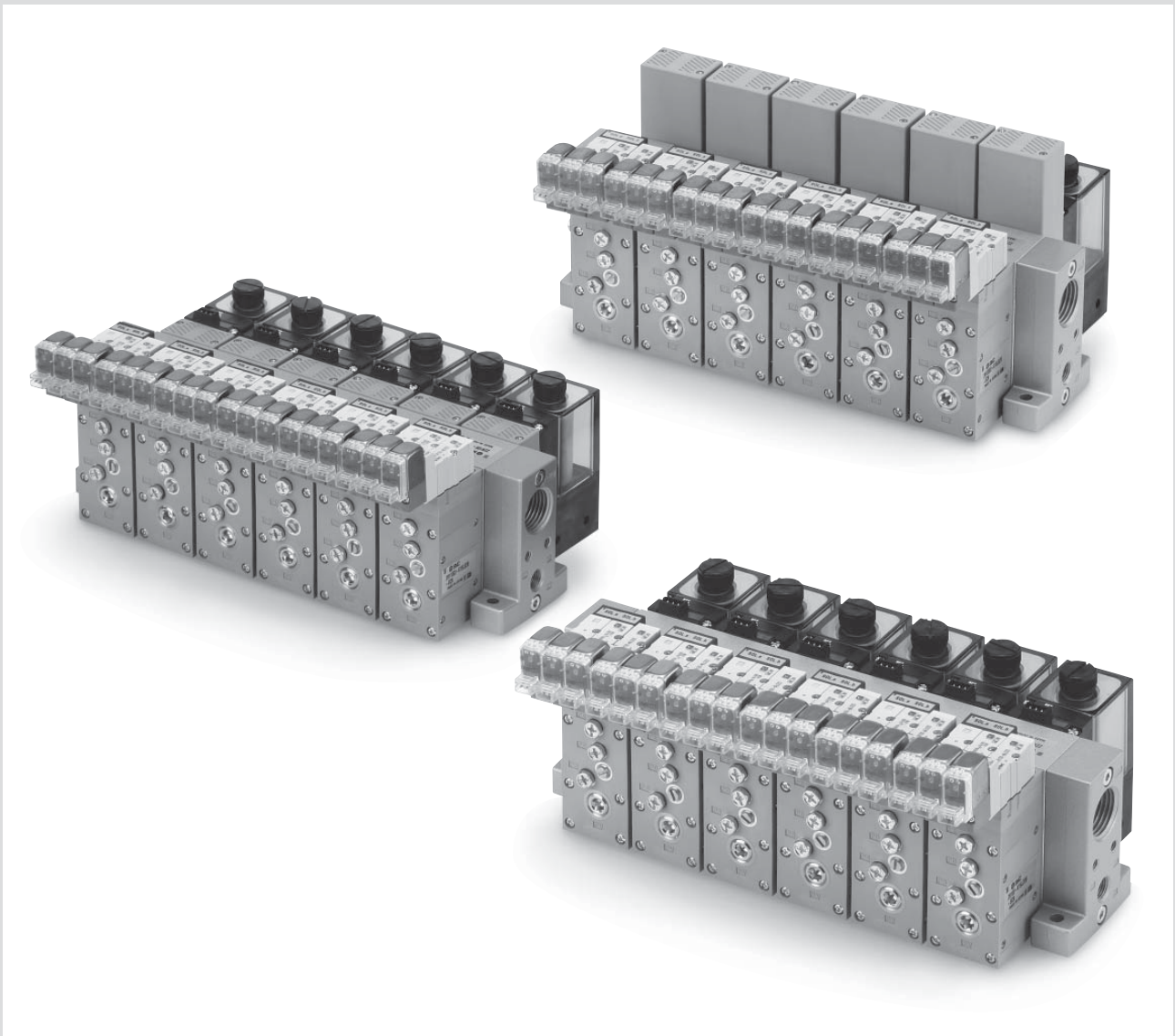


# Large Size Vacuum Module: Ejector System/Vacuum Pump System



- Large suction flow rate, suitable when used with large size pads or multiple pads.
- Nozzle dia. Ø 1.0, Ø 1.3, Ø 1.5, Ø 1.8, Ø 2.0
- Vacuum module suitable for handling workpieces of 0.5 to 5 kg.



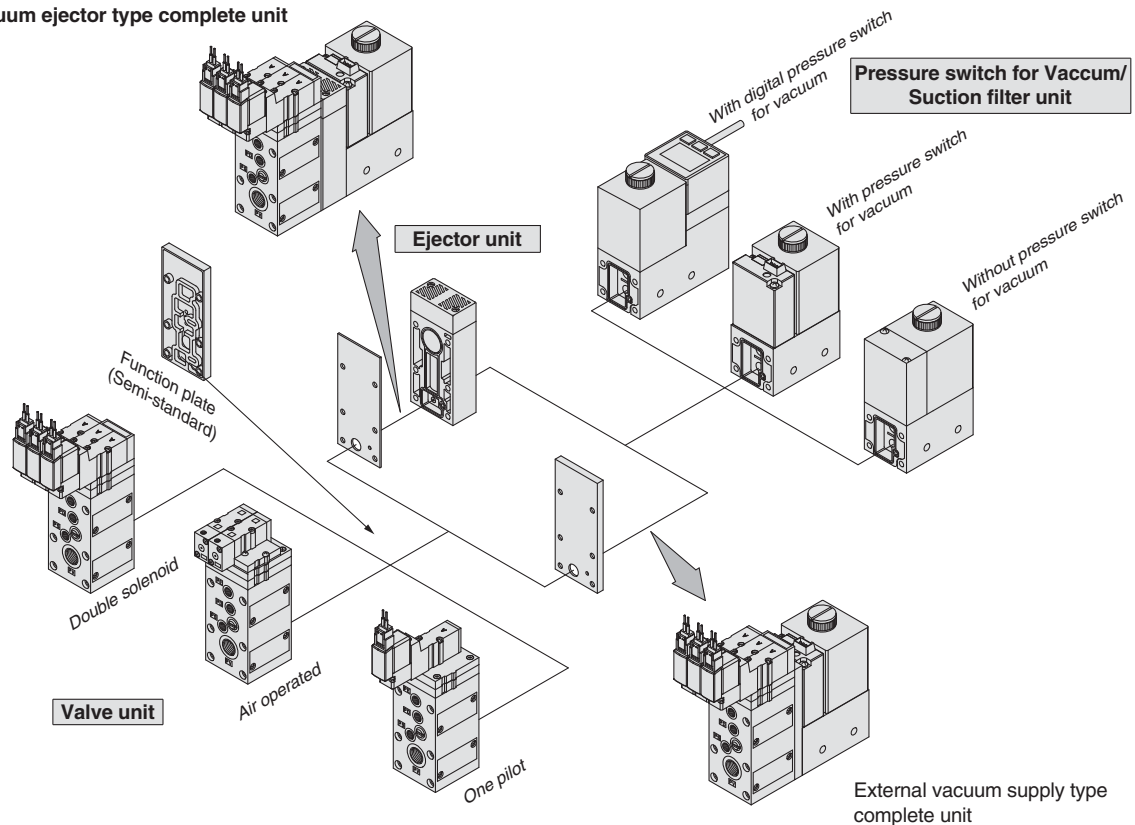
**ZR Series**

# ZR Series

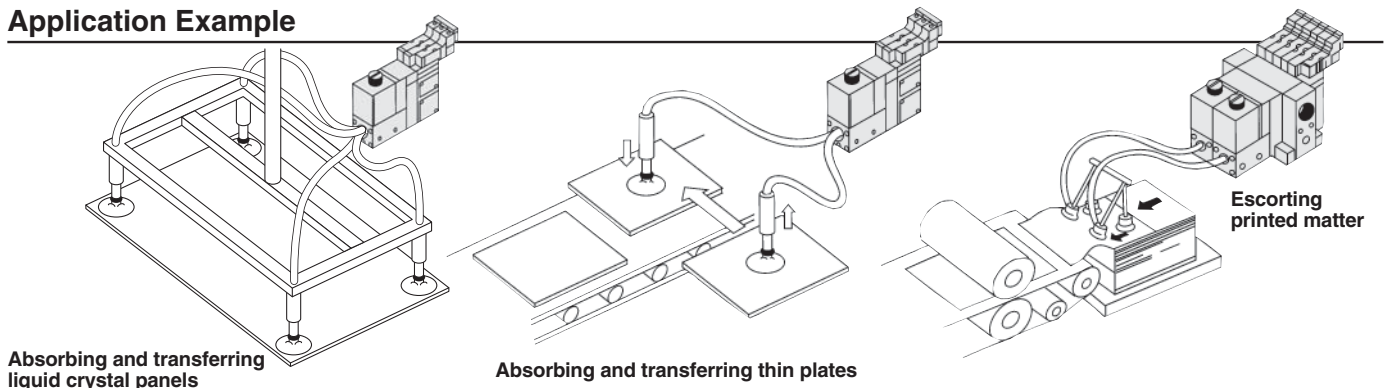
**Vacuum module suitable for handling workpieces of 0.5 to 5 kg.**

- **Modular design**/Customised application function through selection of modular components.
- **Modules for use with external vacuum supply (from pump or mainline) or as an air driven ejector system.**
- **Safe** — Vacuum self-holding function by means of double solenoid valves.
- **Compact, Lightweight**
- **Manifolding possible**

Vacuum ejector type complete unit

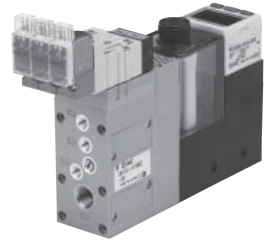


## Application Example



Absorbing and transferring copper plates, Automatic labeling machine, Absorbing and transferring veneers, Automatic screw fastening machine

# Large Size Vacuum Module: Ejector System *ZR Series*

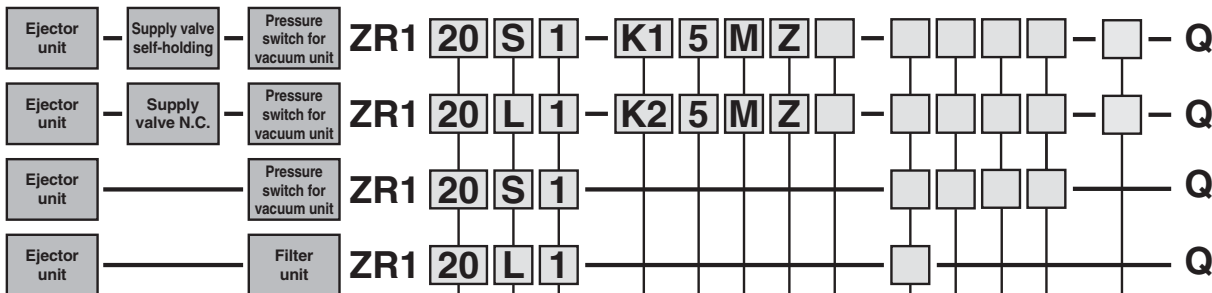


## How to Order

### Note for model selection

Take function plates into consideration. (Refer to page 6.)

### Components



Note) A bracket is applicable only when the product is to be shipped on its own. When a manifold is to be shipped, a bracket is not included with any of the models.

### Ejector module nozzle diameter

Symbol	Type	Valve	Manifold
1	Built-in silencer	●	●
2 Note 1)	Port exhaust	●	●
3 Note 2)	Common exhaust	—	●

### Maximum vacuum pressure

Symbol	Type	Valve	Manifold
S	—84 kPa		
L	—53 kPa		

### Ejector exhaust

Symbol	Type	Valve	Manifold
1	Built-in silencer	●	●
2 Note 1)	Port exhaust	●	●
3 Note 2)	Common exhaust	—	●

### Combination of supply valve and release valve

Refer to "Table (1)" on page 4 for details.

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.

### Solenoid valve rated voltage

Symbol	Type	Valve	Manifold
—	Air operated		
5	24 VDC		
6	12 VDC		
V	6 VDC		
S	5 VDC		
R	3 VDC		

### Electrical entry

Symbol	Type	Valve	Manifold
—	Air operated		
L	L plug	Lead wire length 0.3 m	
LN	connector	Without lead wire	
LO	type	Without connector	
M	M plug	Lead wire length 0.3 m	
MN	connector	Without lead wire	
MO	type	Without connector	
G	Grommet	Lead wire length 0.3 m	
H	type	Lead wire length 0.6 m	

• Refer to "Table (2)" on page 4 for part no. of lead wire with connector.

### Light/Surge voltage suppressor

Symbol	Type	Valve	Manifold
—	None		
Z	With light/surge voltage suppressor		
S	With surge voltage suppressor		

\* If the polarity is incorrect at DC (surge voltage suppressor), diode or switching element may be damaged.

### Manual override

Symbol	Type	Valve	Manifold
—	Non-locking push type		
B	Slotted locking type		

### Combination of switch/filter

Symbol	Type	Valve	Manifold
—	None		
D	Digital pressure switch for vacuum (ZSE30A) + Filter		
E	Pressure switch for vacuum (ZSE2) + Filter		
F	Filter		

### Release flow rate adjusting needle/Bracket A, B Note)

Symbol	Type	Valve	Manifold
—	Lock nut	×	●
L	Bracket A or B	●	●
M	Bracket A or B	●	×
N	Bracket A or B	×	×

● : Attached (Bracket A or B is shipped together.)  
× : None

### Lead wire specifications

#### Digital pressure switch for vacuum (ZSE30A) specifications (D)

Symbol	Type	Valve	Manifold
—	Without lead wire		
L	Lead wire with connector (Length 2 m)		

Refer to "Table (4)" on page 4 for part no. of lead wire with connector.

#### Pressure switch for vacuum (ZSE2) specifications (E)

Symbol	Type	Valve	Manifold
—	Grommet/Lead wire (Length 0.6 m)		
L	Grommet/Lead wire (Length 3 m)		
C	Lead wire with connector (Length 0.6 m)		
CL	Lead wire with connector (Length 3 m)		
CN	Without lead wire with connector		

Refer to "Table (3)" on page 4 for part no. of lead wire with connector.

#### Filter specifications (F)

Symbol	Type	Valve	Manifold
—	No setting		

### Unit specifications

#### Digital pressure switch for vacuum (ZSE30A) specifications (D)

Symbol	Type	Valve	Manifold
—	With unit switching function		
M	SI unit only		
P	With unit switching function (Initial value psi)		

Note 1) Fixed unit: kPa

#### Pressure switch for vacuum (ZSE2) specifications (E)

Symbol	Type	Valve	Manifold
—	No setting		

#### Filter specifications (F)

Symbol	Type	Valve	Manifold
—	No setting		

### Output specifications

#### Digital pressure switch for vacuum (ZSE30A) specifications (D)

Symbol	Type	Valve	Manifold
N	NPN open collector 1 output		
P	PNP open collector 1 output		
A	NPN open collector 2 outputs		
B	PNP open collector 2 outputs		
C	NPN open collector 1 output + Analogue voltage output		
D	NPN open collector 1 output + Analogue current output		
E	PNP open collector 1 output + Analogue voltage output		
F	PNP open collector 1 output + Analogue current output		

#### Pressure switch for vacuum (ZSE2) specifications (E)

Symbol	Type	Valve	Manifold
—	NPN open collector 1 output		
55	PNP open collector 1 output		

#### Filter specifications (F)

Symbol	Type	Valve	Manifold
—	No setting		

