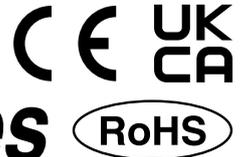
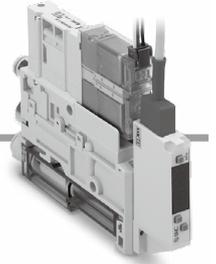


Ejector System Vacuum Unit

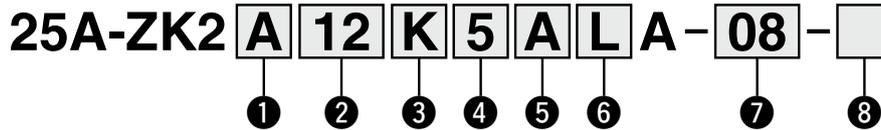


25A-ZK2□A Series

Single Unit Ejector + With Valve + Without Energy Saving Function



How to Order



1 Body/Exhaust type

Symbol	Body	Exhaust type
A	Single unit	Silencer exhaust*1
		Port exhaust
B	Single unit	High-noise reduction silencer exhaust
G	Single unit	High-noise reduction silencer exhaust

*1 With exhaust port when 2 is 12 or 15

4 Rated voltage (Supply valve/Release valve)

Symbol	Voltage
5	24 VDC
6	12 VDC

5 Pressure switch for vacuum/Pressure sensor

Symbol	Type	Pressure range [kPa]	Specifications		
			NPN 2 outputs	PNP	With unit selection function*3
A	Pressure switch for vacuum	0 to -101	●	—	●
B			●	—	None (SI unit only)
C			—	●	●
D		-100 to 100	—	●	None (SI unit only)
E			●	—	●
F			●	—	None (SI unit only)
H	—	●	●		
J	—	●	None (SI unit only)		
P	Pressure sensor	0 to -101	Analog output 1 to 5 V		
T		-100 to 100			
N	Without pressure switch for vacuum/pressure sensor				

*3 The unit selection function is not available in Japan due to the New Measurement Law. The unit for the type without the unit selection function is fixed as kPa.

7 Vacuum (V) port

Symbol	Vacuum (V) port
06	ø6
08	ø8

2 Nominal nozzle size

Symbol	Nominal nozzle size
07	ø0.7
10	ø1.0
12	ø1.2
15	ø1.5

* The standard supply pressure of each nozzle diameter is the same as that of the corresponding standard product.

For details, refer to the Web Catalog.

3 Combination of supply valve and release valve

Symbol	Supply valve		Release valve
	N.C.	Self-holding	N.C.
K	●	—	●
J	●	—	—
R	—	●*2	●

*2 Supply valve maintains vacuum by energization (20 ms or more). Stopping the vacuum turns on the release valve.

6 Connector (Supply valve/Release valve/Pressure switch for vacuum)

Symbol	For supply valve/ release valve: 300 mm (Connector assembly)*4	For pressure switch for vacuum: 2 m (Lead wire with connector)	Pressure sensor assembly: 3 m (With lead wire)	Note
L	●	—	●	Cannot be selected when 5 is N
L1	None	—	●	
L2	●	—	None	Cannot be selected when 5 is P or T
L3	None	—	None	

*4 For the connector length other than 300 mm, select L1 or L3, and order the connector assembly on page 178 separately.

8 Option*5 (For details on the Function/Application, refer to page 179.)

Symbol	Type	Note	
Nil	Without option	—	
B	Mounting bracket for single unit (nuts and bolts are included) 	—	
D	With individual release pressure supply (PD) port (M3)*6 	Cannot be selected when 3 is J	
E	Vacuum break flow adjusting needle	Screwdriver operation type long lock nut 	Cannot be selected when 3 is J
		Round lock nut 	
J	Vacuum break flow adjusting needle	Can be selected only for the combination of J and K	
K	Vacuum break flow adjusting needle	Can be selected only for the combination of J and K	
W	With exhaust interference prevention valve 	When J is selected for 8, install the release valve or vacuum breaker in the middle of the vacuum piping.	

*5 When more than one option is selected, list the option symbols in alphabetical order. (Example -BJ)

*6 Use a One-touch fitting or barb fitting for piping. (O.D.: Within ø6.2)

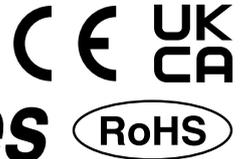
* The 25A-series specifications and dimensions are the same as those of the standard model.

The manifold type is available as a special order.

For details, refer to the Web Catalog.

Ejector System Vacuum Unit

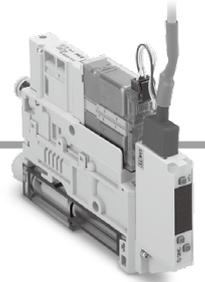
25A-ZK2□A Series



Single Unit Ejector + With Valve + With Energy Saving Function

How to Order

25A-ZK2 **A** **12** **K** **5** **K** **W** **A** - **08** - □



1 Body/Exhaust type

Symbol	Body	Exhaust type
A	Single unit	Silencer exhaust*1
		Port exhaust
G	Single unit	High-noise reduction silencer exhaust

*1 With exhaust port when 2 is 12 or 15

2 Nominal nozzle size

Symbol	Nominal nozzle size
07	ø0.7
10	ø1.0
12	ø1.2
15	ø1.5

* The standard supply pressure of each nozzle diameter is the same as that of the corresponding standard product.
For details, refer to the Web Catalog.

3 Combination of supply valve and release valve

Symbol	Supply valve	Release valve
	K	N.C.

4 Rated voltage (Supply valve/Release valve)

Symbol	Voltage
5	24 VDC
6	12 VDC

5 Pressure switch for vacuum with energy saving function

Symbol	Pressure range [kPa]	Specifications		
		NPN	PNP	With unit selection function*2
K	-100 to 100	●	—	●
Q		●	—	None (SI unit only)
R		—	●	●
S		—	●	None (SI unit only)

*2 The unit selection function is not available in Japan due to the New Measurement Law. The unit for the type without the unit selection function is fixed as kPa.

6 Connector

Symbol	For pressure switch for vacuum with energy saving function: 2 m (Lead wire with connector)
W	●
L3	None

7 Vacuum (V) port

Symbol	Vacuum (V) port
06	ø6
08	ø8

8 Option*3 (For details on the Function/Application, refer to page 179.)

Symbol	Type	Note
Nil	Without option	—
B	Mounting bracket for single unit (nuts and bolts are included) 	—
D	With individual release pressure supply (PD) port (M3)*4 	—
E	Screwdriver operation type long lock nut 	Can be selected only for the combination of J and K
J	Round lock nut 	
K	Screwdriver operation type 	

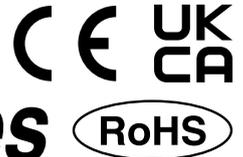
*3 When more than one option is selected, list the option symbols in alphabetical order. (Example -BJ)
*4 Use a One-touch fitting or barb fitting for piping. (O.D.: Within ø6.2)

The manifold type is available as a special order.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

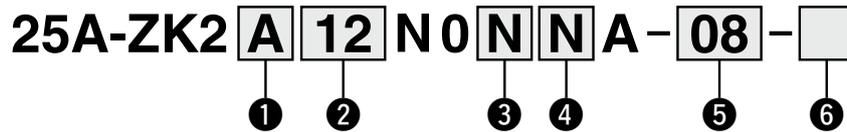
Ejector System Vacuum Unit



25A-ZK2□A Series

Single Unit Ejector + Without Valve + Without Energy Saving Function

How to Order



① Body/Exhaust type

Symbol	Body	Exhaust type
A	Single unit	Silencer exhaust* ¹
B		Port exhaust
G		High-noise reduction silencer exhaust High-noise reduction silencer exhaust

*1 With exhaust port when ② is 12 or 15

② Nominal nozzle size

Symbol	Nominal nozzle size
07	ø0.7
10	ø1.0
12	ø1.2
15	ø1.5

* The standard supply pressure of each nozzle diameter is the same as that of the corresponding standard product.
For details, refer to the [Web Catalog](#).

④ Connector

Symbol	For pressure switch for vacuum: 2 m (Lead wire with connector)	Pressure sensor assembly: 3 m (With lead wire)	Note
Y	●		Cannot be selected when ③ is N
Y1	None		Cannot be selected when ③ is P, T, or N
N	None		When "N" is selected for ③

③ Pressure switch for vacuum/Pressure sensor

Symbol	Type	Pressure range [kPa]	Specifications		
			NPN 2 outputs	PNP	With unit selection function* ²
A	Pressure switch for vacuum	0 to -101	●	—	●
B			●	—	None (SI unit only)
C			—	●	●
D			—	●	None (SI unit only)
E			●	—	●
F	Pressure sensor	-100 to 100	●	—	None (SI unit only)
H			—	●	●
J			—	●	None (SI unit only)
T			—	●	●
P	Pressure sensor	0 to -101	Analog output 1 to 5 V		
T		-100 to 100			
N	Without pressure switch for vacuum/pressure sensor				

*2 The unit selection function is not available in Japan due to the New Measurement Law. The unit for the type without the unit selection function is fixed as kPa.

⑤ Vacuum (V) port

Symbol	Vacuum (V) port
06	ø6
08	ø8

⑥ Option*³ (For details on the Function/Application, refer to page 179.)

Symbol	Type	Note
Nil	Without option	—
B	Mounting bracket for single unit (nuts and bolts are included) 	—
W	With exhaust interference prevention valve 	Install the release valve or vacuum breaker in the middle of the vacuum piping.

*3 When more than one option is selected, list the option symbols in alphabetical order. (Example -BW)

The manifold type is available as a special order.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the [Web Catalog](#).

Replacement Parts for Single Unit / How to Order

Valve assembly

25A-ZK2 - VA **A** **K** **5** **L** **A-A**

① ② ③ ④

① **Applicable system**
A Ejector system

② **Valve type**

K	Supply valve: N.C., Release valve: N.C.
R	Supply valve: Self-holding release valve linked, Release valve: N.C.
J	Supply valve: N.C., Release valve: None

③ **Rated voltage**

5	24 VDC
6	12 VDC

④ Wiring

L	Individual wiring: With connector assembly (Lead wire length: 300 mm)
LO	Individual wiring: Without connector assembly

Select the 25A-ZK2VAAK□LOA-A for a switch with energy saving function.

Connector assembly

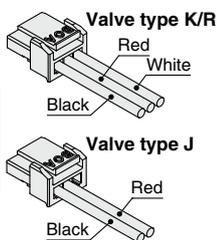
ZK2 - LV **W** □ **A**

Applicable valve type

W	Valve type K/R
S	Valve type J

Lead wire length

Nil	300 mm
6	600 mm
10	1000 mm
20	2000 mm
30	3000 mm



Sound absorbing material (10 pcs. per set)

ZK2 - SE1 - 1 - A

Sound absorbing material hole diameter

1	300 μm
----------	--------

Vacuum port adapter assembly (Purchasing order is available in units of 1 piece.)

ZK2 - VA1S **8** - **A**

One-touch fitting size

6	φ6 One-touch fitting	Metric size
8	φ8 One-touch fitting	

Filter element (10 pcs. per set)

ZK2 - FE1 - 3 - A

Nominal filtration rating

3	30 μm
----------	-------

Body gasket*¹ (10 pcs. per set)

ZK2 - BG5 - 1 - A

Applicable type

1	One check valve type (All specifications other than vacuum switch with energy saving function and exhaust interference prevention valve)
2	Two check valve type (Vacuum switch with energy saving function and exhaust interference prevention valve)

*1 When ZK2-BG5-2-A is mounted, the workpiece cannot be removed until vacuum is released.

Filter case*¹

ZK2 - FC □ **A**

Port for the pressure switch or sensor

Symbol	Port for the pressure switch or sensor	Filter case color
P	With port (type with pressure switch or sensor)	Smoke
T	Without port (type without pressure switch or sensor)	Clear

*1 Vacuum port adapter assembly is not included.

Pressure switch for vacuum assembly (With 2 mounting screws)

25A-ZK2 - ZS **E** **A** **M** **G** - **A**

① ② ③ ④

① Rated pressure range and function

Symbol	Rated pressure range	Function	Output
E	0 to -101 kPa	Pressure switch for vacuum	Open collector 2 outputs
F	-100 to 100 kPa	Pressure switch for vacuum	Open collector 2 outputs
V	-100 to 100 kPa	Pressure switch for vacuum with energy saving function	Open collector 1 output

② Output

A	NPN
B	PNP

③ Unit

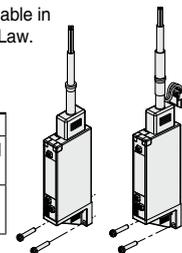
Nil	Unit selection function* ¹
M	SI unit only* ²

*1 The unit selection function is not available in Japan due to the New Measurement Law.

*2 Fixed unit: kPa

④ Lead wire with connector

Symbol	Unit selection function	Lead wire with connector (Length 2 m)
Nil	None	When ① is E or F...For pressure switch for vacuum, Lead wire with connector (Length 2 m)
G	With lead wire	When ① is V...For pressure switch for vacuum with energy saving function, Lead wire with connector (Length 2 m)



Lead wire with connector

(When individual lead wire is necessary, order with the part number below.)

- Lead wire with connector for pressure switch for vacuum **ZS - 39 - 5G**
- Lead wire with connector for pressure switch for vacuum with energy saving function **ZK2 - LW** **A** **20 - A**

Output

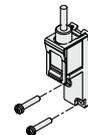
A	NPN open collector
B	PNP open collector

Pressure sensor assembly (With 2 mounting screws)

25A-ZK2 - PS **1** - **A**

Rated pressure range

1	0 to -101 kPa, Output: 1 to 5 V, Accuracy: ± 2% F.S.
3	-100 to 100 kPa, Output: 1 to 5 V, Accuracy: ± 2% F.S.



High-noise reduction silencer case assembly

ZK2 - SC3 - 4 - A

Applicable nozzle size

4	For nozzle size 07, 10
6	For nozzle size 12, 15

Release lever (10 pcs. per set)

ZK2 - RL1 - A

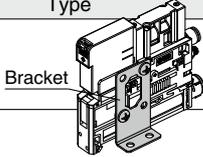
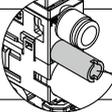
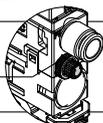
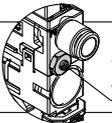
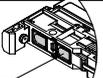
Lock nut (10 pcs. per set)

25A-ZK2 - LN1 - A

Directional Control Valves
 Air Cylinders
 Related Products
 Rotary Actuators
 Air Grippers
 Vacuum Equipment
 Air Preparation Equipment
 Clean Air Filters
 Modular F.R.L./Pressure Control Equipment
 Flow Control Equipment/Fittings
 Detection Switches
 Fluid Control Equipment
 Process Gas Equipment
 Electric Actuators
 Auto Switches

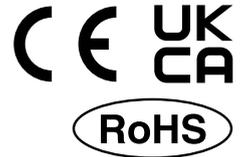
25A-ZK2□A Series

Optional Specifications/Functions/Applications

Symbol	Type	Function/Application
B	Mounting bracket for single unit (nuts and bolts are included)  Bracket	· Use when a single unit is mounted to the floor in an upright position is requested. If only ordering the bracket, the product number is as follows: 25A-ZK2-BK1-A (includes nuts and bolts).
D	With individual release pressure supply (PD) port (M3)  PD port	· Use when supply pressure for vacuum release is individually requested.
E	Screwdriver operation type long lock nut  Screwdriver operation type long lock nut	· Used when the needle adjustment operation is difficult
J	Vacuum break flow adjusting needle Round lock nut  Lock nut	· Thicker than standard hexagon type. More suitable for hand tightening. · Round lock nut improves operability when the port exhaust type is used.
K	Screwdriver operation type  Vacuum break flow adjusting needle	· Slotted type improves fine adjustment performance when the port exhaust type is used.
W	With exhaust interference prevention valve  Exhaust interference prevention valve	· When ejectors are operated individually, exhausted air may flow backward from the V port of ejectors that are turned off. Exhaust interference prevention valve prevents backflow.

Auto Switches	Electric Actuators	Process Gas Equipment	Fluid Control Equipment	Detection Switches	Flow Control Equipment/ Fittings	Modular F.R.L./ Pressure Control Equipment	Clean Air Filters	Air Preparation Equipment	Vacuum Equipment	Air Grippers	Rotary Actuators	Related Products	Air Cylinders	Directional Control Valves
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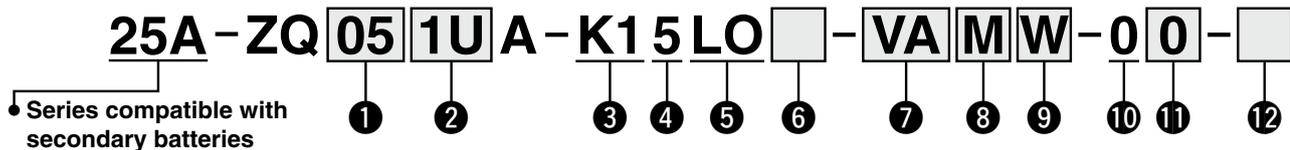
Ejector System Compact Vacuum Unit With Energy Saving Function



25A-ZQ□A Series

Single Unit Part Number

How to Order



1 Nominal nozzle size

05	0.5
07	0.7
10	1.0

2 Body type

1U	For Single unit
3M	For Manifold

3 Solenoid valve combination

K1	Supply valve (N.C.), Release valve (N.C.)
----	---

4 Solenoid valve rated voltage

5	24 VDC
---	--------

5 Electrical entry

LO	L plug connector (Without connector) With light/surge voltage suppressor
----	---

6 Manual override

Nil	Non-locking push type
B	Locking slotted type

7 Vacuum pressure switch (With suction filter*1)

Symbol	Pressure range [kPa]	Output
VA	-100 to 100	NPN 1 output + Energy saving function
VB		PNP 1 output + Energy saving function

*1 The filter used in this product is of a simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please consider using in combination with an air suction filter of the ZFC series, etc.

8 Unit

Nil*2	With unit switching function
M	SI unit only (kPa)

*2 Under the New Measurement Act, switches with the unit switching function are not permitted for use in Japan (implemented October 1999).

9 Lead wire

Nil	Without lead wire with connector
W	Lead wire for switch with energy saving function (Length: 2 m) (Included)

10 Fitting (V port)

Symbol	Applicable tubing O.D.
0	Without fitting (M5 x 0.8)

11 Fitting (P port)

Symbol	Applicable tubing O.D.	Specification
Nil	Without port	Manifold
0	Without fitting (M5 x 0.8)	Single unit

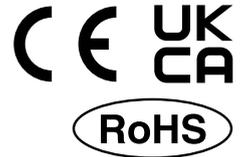
12 Option

	Bracket for single unit	
	Single unit	Manifold
Nil	With	Without
N	Without	Not available

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

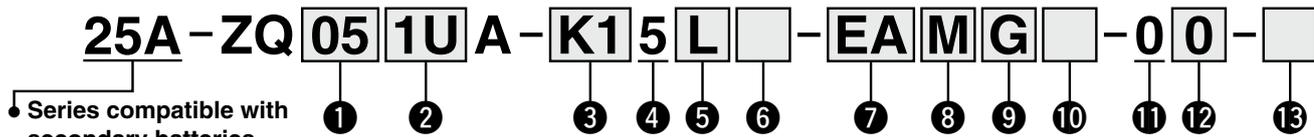
Ejector System Compact Vacuum Unit Without Energy Saving Function



25A-ZQ□A Series

Single Unit Part Number

How to Order



Series compatible with secondary batteries

① Nominal nozzle size

05	0.5
07	0.7
10	1.0

② Body type

1U	For Single unit
3M	For Manifold

③ Solenoid valve combination

K1	Supply valve (N.C.), Release valve (N.C.)
K2	Supply valve (N.O.), Release valve (N.C.)
J1	Supply valve (N.C.)
J2	Supply valve (N.O.)
Q1*1	Supply valve (Latching), Release valve (N.C.)
Q2*1	Supply valve (Latching)

*1 Latching (+ common)

④ Solenoid valve rated voltage

5	24 VDC
---	--------

⑤ Electrical entry

L	L plug connector (Lead wire length: 0.3 m) With light/surge voltage suppressor
LO	L plug connector (Without connector) With light/surge voltage suppressor

⑥ Manual override

Nil	Non-locking push type
	Latching: Push-locking slotted type
B*2	Locking slotted type

*2 When "Q1" is selected in ③, the locking slotted type is only available in the release valve.
This option cannot be chosen when "Q2" is selected in ③.

⑦ Vacuum pressure switch (With suction filter*3)

Symbol	Pressure range [kPa]	Output
EA	0 to -100	NPN 2 outputs
EB		PNP 2 outputs
EC		NPN 1 output + Analog voltage
EE		PNP 1 output + Analog voltage
FA	-100 to 100	NPN 2 outputs
FB		PNP 2 outputs
FC		NPN 1 output + Analog voltage
FE		PNP 1 output + Analog voltage
F*4	Suction filter only	

*3 The filter used in this product is of a simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please consider using in combination with an air suction filter of the ZFC series, etc.

*4 It is not necessary to select the items for ⑧ and ⑨.

⑧ Unit

Nil*5	With unit switching function
M	SI unit only (kPa)
P*5	With unit switching function (Initial value: psi)

*5 Under the New Measurement Act, switches with the unit switching function are not permitted for use in Japan (implemented October 1999).

⑨ Lead wire

Nil	Without lead wire with connector
G	Lead wire with connector (Length: 2 m) (Included)

⑩ Check valve*6

Nil	None
K*7	With check valve

*6 The check valve has a function to prevent the exhaust air from the exhaust unit overflowing to the vacuum port side when a manifold is used, but it cannot prevent overflow of the exhaust air completely. During usage, please inspect thoroughly with actual machine.

Also, in order to completely prevent the overflow of exhaust air, leave plenty of space between the check valve unit and adjacent ejector to avoid interference from the ejector's exhaust unit.

*7 Cannot be selected when ② is "1U", or ③ is "J1", "J2", or "Q2"

⑪ Fitting (V port)

Symbol	Applicable tubing O.D.
0	Without fitting (M5 x 0.8)

⑫ Fitting (P port)

Symbol	Applicable tubing O.D.	Specification
Nil	Without port	Manifold
0	Without fitting (M5 x 0.8)	Single unit

⑬ Option

For Single Unit (②: 1U)

Symbol	Bracket assembly	Converter assembly for solenoid valve*8
Nil	○	—
N	—	—
C	—	○
D	○	○

For Manifold (②: 3M)

Symbol	Release pressure supply (PD) port*9	Converter assembly for solenoid valve*8
Nil	—	—
S	○	—
C	—	○
E	○	○

*8 A converter assembly for attaching the VQ100 lead wire assembly with a connector to the ZQ-A is included. Refer to the "Converter assembly for solenoid valve" in the **Web Catalog**. "Q2" cannot be selected in ③. Select "LO" in ⑤.

*9 Select "C" for ④ for the manifold part number on page 180-3. "J1", "J2", or "Q2" cannot be selected in ③.

⚠ Warning

- Cannot be used for vacuum retention
- Use a release valve. Without a release valve, a workpiece may not be released.

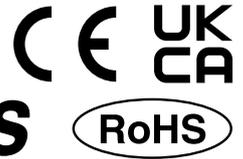
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

Directional Control Valves
Air Cylinders
Related Products
Rotary Actuators
Air Grippers
Vacuum Equipment
Air Preparation Equipment
Clean Air Filters
Modular F.R.L./Pressure Control Equipment
Flow Control Equipment/Fittings
Detection Switches
Fluid Control Equipment
Process Gas Equipment
Electric Actuators
Auto Switches

Ejector System Compact Vacuum Unit

25A-ZQ□A Series



Manifold Part Number

How to Order

25A-ZZQ1 08 A-B S C-A

1
 2 3 4
 5

Series compatible with secondary batteries

1 Stations*1

01	1 station
02	2 stations
⋮	⋮
08	8 stations

*1 Number of stations varies according to nominal nozzle size during simultaneous operation. (Table 1)

Table 1. Max. Number of Stations that Can Operate Simultaneously*2

Nominal nozzle size	Max. number of stations that can operate simultaneously
0.5	8 stations
0.7	6 stations
1.0	4 stations

*2 For any of the nominal nozzle sizes, the max. number of stations that can be mounted is 8. However, please ensure that the max. number of stations that are operated simultaneously comply with the values above.

2 Air pressure supply (P) port location

B	Both sides
---	------------

4 Release pressure supply (PD) port

B	None (Release pressure: Commonly supplied from the P port)
C*3	Provided (Release pressure: Supplied from the PD port)

*3 If the individual unit does not have the energy saving function, select "S" or "E" in ⑤ for the single unit part number on page 180-2.

3 Exhaust

S	Silencer exhaust (Both sides)
P	Port exhaust (Both sides)

5 Shipping configuration

Nil	Assembled as a vacuum unit
A*4	Manifold unit only

*4 A set of end blocks and the clamp rod assembly is included in this manifold unit. (Used for the maintenance of the end block)

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

Manifold Order Example

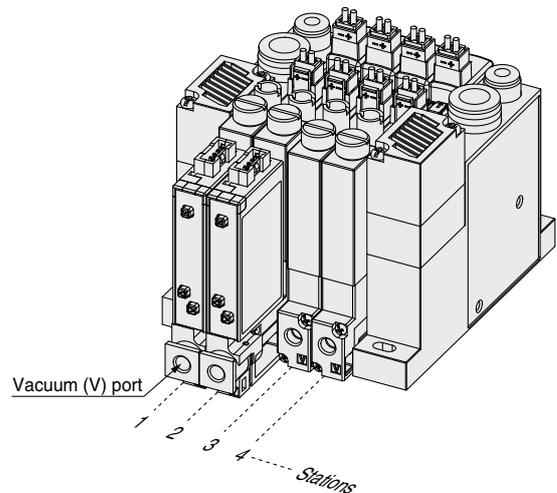
25A-ZZQ104A-BSB..... 1 pc.

* 25A-ZQ053MA-K15L-EAG-0... 2 pcs. → Stations 1 and 2

* 25A-ZQ103MA-K15L-F-0 2 pcs. → Stations 3 and 4

* When the manifold is viewed from the vacuum (V) port, the first station starts from the left.

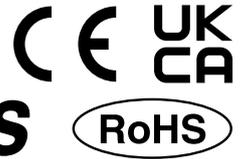
25A-ZQ053MA-K15L-EAG-0 (2 pcs.) and 25A-ZQ103MA-K15L-F-0 (2 pcs.) are arranged from the first station.



⚠ Caution when ordering manifold

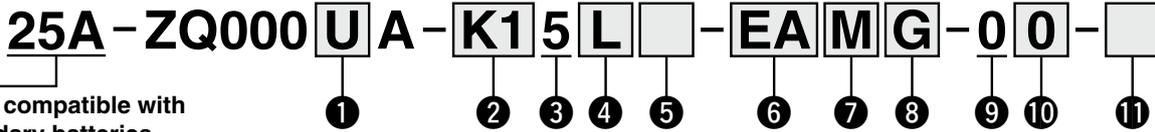
- ! The asterisk (*) denotes the symbol for the assembly.
- ! Prefix it to the single unit part number.
- ! If "*" is not entered, the manifold and single unit will be shipped without being assembled.
- ! When the manifold and the units are not assembled, please assemble them by referring to "How to increase/decrease manifold stations" in the **Web Catalog**.
- ! There is nothing else to arrange additionally.

25A-ZQ□A Series



Single Unit Part Number

How to Order



Series compatible with secondary batteries

1 Body type

U	For Single unit
M	For Manifold

2 Solenoid valve combination

K1	Supply valve (N.C.), Release valve (N.C.)
K2	Supply valve (N.O.), Release valve (N.C.)
J1 *1	Supply valve (N.C.)
J2 *1	Supply valve (N.O.)
Q1 *2	Supply valve (Latching), Release valve (N.C.)
Q2 *1 *2	Supply valve (Latching)

*1 The air in the adsorption section of this product is not released to the atmosphere at the vacuum suspension state. Devise the circuit for the vacuum release additionally.

*2 Latching (+ common)

3 Solenoid valve rated voltage

5	24 VDC
----------	--------

4 Electrical entry

L	L plug connector (Lead wire length: 0.3 m) With light/surge voltage suppressor
LO	L plug connector (Without connector) With light/surge voltage suppressor

5 Manual override

Nil	Non-locking push type
	Latching: Push-locking slotted type
B *3	Locking slotted type

*3 When "Q1" is selected in ②, the locking slotted type is only available in the release valve. This option cannot be chosen when "Q2" is selected in ②.

6 Vacuum pressure switch (With suction filter*4)

Symbol	Pressure range [kPa]	Output
EA	0 to -100	NPN 2 outputs
EB		PNP 2 outputs
EC		NPN 1 output + Analog voltage
EE		PNP 1 output + Analog voltage
FA		NPN 2 outputs
FB	-100 to 100	PNP 2 outputs
FC		NPN 1 output + Analog voltage
FE		PNP 1 output + Analog voltage
F *5	Suction filter only	

*4 The filter used in this product is of a simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please consider using in combination with an air suction filter of the ZFC series, etc.

*5 It is not necessary to select the items for ⑦ and ⑧.

7 Unit

Nil *6	With unit switching function
M	SI unit only (kPa)
P *6	With unit switching function (Initial value: psi)

*6 Under the New Measurement Act, switches with the unit switching function are not permitted for use in Japan (implemented October 1999).

8 Lead wire

Nil	Without lead wire with connector
G	Lead wire with connector (Length: 2 m) (Included)

9 Fitting (V port)

Symbol	Applicable tubing O.D.
0	Without fitting (M5 x 0.8)

10 Fitting (PS/PV port)

Symbol	Applicable tubing O.D.	Specification
Nil	Without port	Manifold
0	Without fitting (M5 x 0.8)	Single unit

11 Option

For Single Unit (①: U)

Symbol	Bracket assembly	Converter assembly for solenoid valve*7
Nil	○	—
N	—	—
C	—	○
D	○	○

For Manifold (①: M)

Symbol	Release pressure supply (PD) port*8	Converter assembly for solenoid valve*7
Nil	—	—
S	○	—
C	—	○
E	○	○

*7 A converter assembly for attaching the VQ100 lead wire assembly with a connector to the ZQ-A is included. Refer to the "Converter Assembly for Solenoid Valve" in the **Web Catalog**. "Q2" cannot be selected in ②. Select "LO" in ④.

*8 Select "C" for ③ for the manifold part number on page 180-5. "J1", "J2", or "Q2" cannot be selected in ②.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

Directional Control Valves
Air Cylinders
Related Products
Rotary Actuators
Air Grippers
Vacuum Equipment
Air Preparation Equipment
Clean Air Filters
Modular F.R.L./Pressure Control Equipment
Flow Control Equipment/Fittings
Detection Switches
Fluid Control Equipment
Process Gas Equipment
Electric Actuators
Auto Switches

25A-ZQ□A Series

Manifold Part Number

How to Order

25A-ZZQ1 08 A-L O C-A

①
②
③
④

Series compatible with secondary batteries

① Stations

01	1 station
02	2 stations
⋮	⋮
08	8 stations

② Vacuum pressure supply (PV) port location*1

L	Left side
R	Right side

*1 The position of the vacuum pressure supply (PV) port when the vacuum (V) port is facing front. The pilot pressure supply (PS) port is on the opposite side. Refer to the "Table 1" for details.

③ Release pressure supply (PD) port

B	None (Release pressure: Commonly supplied from the PS port)
C*2	Provided (Release pressure: Supplied from the PD port)

*2 Select "S" or "E" for ① for the single unit part number on page 180-4.

④ Shipping configuration

Nil	Assembled as a vacuum unit
A*3	Manifold unit only

*3 A set of end blocks and the clamp rod assembly is included in this manifold unit. (Used for the maintenance of the end block)

Table 1. Location of Each Port

② PV port location	③ PD port	Left side with the V port facing the front			Right side with the V port facing the front		
		PS port	PV port	PD port	PS port	PV port	PD port
L	B	—	●	—	●	—	—
	C	—	●	●	●	—	●
R	B	●	—	—	—	●	—
	C	●	—	●	—	●	●

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

Manifold Order Example

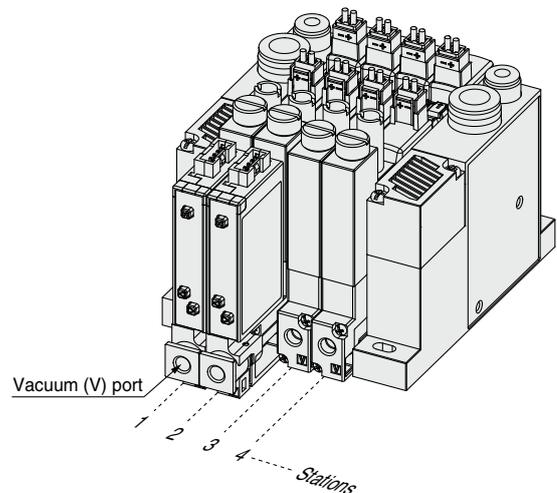
25A-ZZQ104A-ROB 1 pc.

* 25A-ZQ000MA-K15L-EAG-0... 2 pcs. → Stations 1 and 2

* 25A-ZQ000MA-K15L-F-0 2 pcs. → Stations 3 and 4

* When the manifold is viewed from the vacuum (V) port, the first station starts from the left.

25A-ZQ000MA-K15L-EAG-0 (2 pcs.) and 25A-ZQ000MA-K15L-F-0 (2 pcs.) are arranged from the first station.

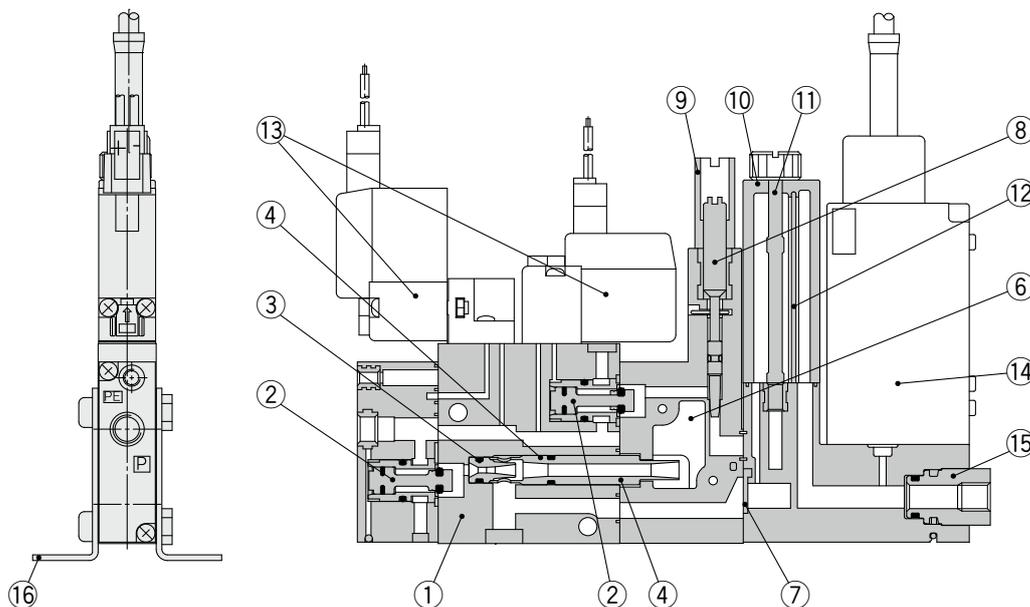


⚠ Caution when ordering manifold

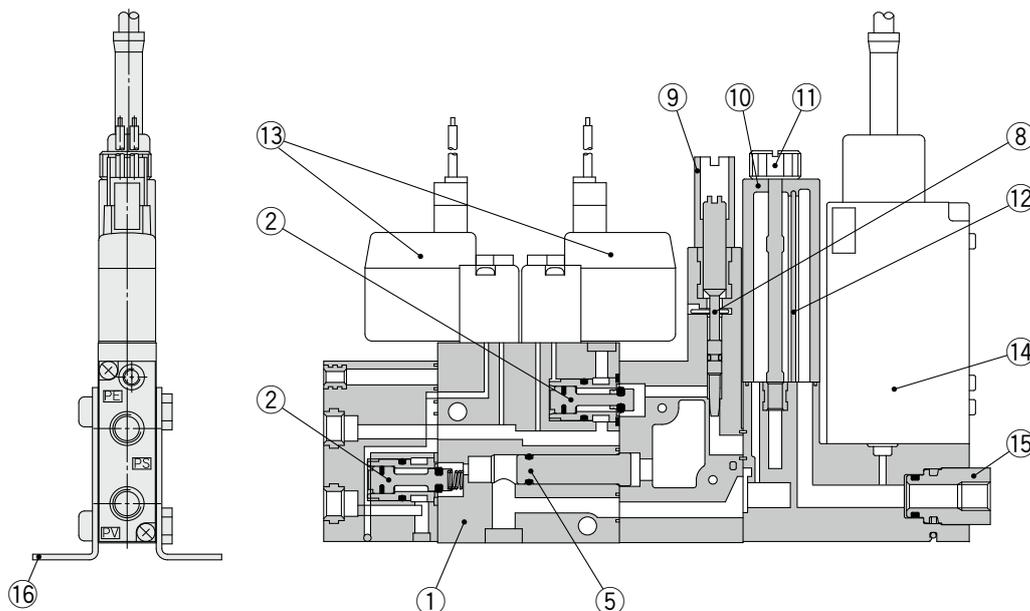
- The asterisk (*) denotes the symbol for the assembly.
- Prefix it to the single unit part number.
- If "*" is not entered, the manifold and single unit will be shipped without being assembled.
- When the manifold and the units are not assembled, please assemble them by referring to "How to increase/decrease manifold stations" in the **Web Catalog**.
- There is nothing else to arrange additionally.

Construction

Vacuum ejector (N.O. specification)



Vacuum pump system (N.C. specification)



Component Parts

No.	Description	Material	Note
1	Body	PBT	Aluminum alloy is also used.
2	Supply valve / Release valve assembly	POM/Aluminum alloy/Stainless steel	
3	Nozzle	PBT	
4	Diffuser	PBT	
5	Bushing	Aluminum alloy	
6	Sound absorbing material	Non-woven fabric (PET)	Refer to [3] on page 180-8 for how to order. (When replacing the sound absorbing material, order a silencer plate assembly.)
7	Check valve	HNBR	Refer to [6] on page 180-8 for how to order.
8	Vacuum release flow adjusting needle	Stainless steel	
9	Lock nut	Aluminum alloy (Anodized)	
10	Filter case	PC (Refer to the precautions in the Web Catalog .)	Refer to [4] on page 180-8 for how to order.
11	Tension bolt	Stainless steel	
12	Filter element	PVA sponge	Refer to [5] on page 180-8 for how to order.
13	Pilot supply valve / Pilot valve (for release)	—	Refer to [1] on page 180-7 for how to order.
14	Vacuum pressure switch	—	Refer to [2] on page 180-7 for how to order.
15	Vacuum (V) port M5 bushing	Aluminum alloy (Anodized)	
16	Bracket assembly	Steel (Electroless nickel plating), Stainless steel	Refer to [7] on page 180-8 for how to order.
—	Seal material (O-ring, etc.)	NBR/HNBR	
—	Screws for assembly	Steel (Electroless nickel plating), Stainless steel	

Directional Control Valves
 Air Cylinders
 Related Products
 Rotary Actuators
 Air Grippers
Vacuum Equipment
 Air Preparation Equipment
 Clean Air Filters
 Modular F.R.L./Pressure Control Equipment
 Flow Control Equipment/Fittings
 Detection Switches
 Fluid Control Equipment
 Process Gas Equipment
 Electric Actuators
 Auto Switches

25A-ZQ□A Series

How to Order Replacement Parts for Single Unit

1 Solenoid Valve

(Recommended torque for replacement: 0.054 to 0.08 N-m)

N.C. Pilot Supply Valves, Pilot Valves (for Release) **25A - ZQ1 - V114 - 5** **L** **U** □ - A

① ②

1 Electrical entry

L	LO
With lead wire (300 mm)	Without connector

2 Manual override

Nil	B
Non-locking push type	Locking slotted type

N.O. Pilot Supply Valves **25A - ZQ1 - V124 - 5** **M** **U** □ - A

① ②

1 Electrical entry

M	MO
With lead wire (300 mm)	Without connector

2 Manual override

Nil	B
Non-locking push type	Locking slotted type

Latching Pilot Supply Valves **25A - ZQ1 - VQ110L - 5** **L** - A

①

1 Electrical entry

L	LO
With lead wire (300 mm)	Without connector

Lead Wire with Connector Assembly for Solenoid Valve

For N.C./N.O. Pilot Valves, Pilot Valves (for Release) **SY100 - 30 - 4 A - 6** ① Lead wire length

For Latching Pilot Valves **AXT661 - 13A - 6** ①

Nil	300 mm
6	600 mm
10	1000 mm
15	1500 mm
20	2000 mm
30	3000 mm
50	5000 mm

Connector and Socket for Solenoid Valve

For N.C./N.O. Pilot Valves, Pilot Valves (for Release) **SY100 - 30 - A** * With connector and sockets only
(Number of sockets: 2)

For Latching Pilot Valves **AXT661 - 12A**
(Number of sockets: 3)

2 Vacuum Pressure Switch (With Suction Filter)

(Recommended torque for replacement: 0.11 to 0.13 N-m)

25A - ZQ - ZS **EA** **M** **G** □ - **0** - A

① ② ③ ④ ⑤

1 Vacuum pressure switch

Symbol	Pressure range [kPa]	Output
EA	0 to -100	NPN 2 outputs
EB		PNP 2 outputs
EC		NPN 1 output + Analog voltage
EE		PNP 1 output + Analog voltage
FA	-100 to 100	NPN 2 outputs
FB		PNP 2 outputs
FC		NPN 1 output + Analog voltage
FE		PNP 1 output + Analog voltage
VA*1		NPN 1 output + Energy saving control
VB*1		PNP 1 output + Energy saving control

*1 It is not possible to replace the vacuum pressure switch from the specification without energy saving function to the specification with energy saving function.

2 Unit

Nil*2	With unit switching function
M	SI unit only (kPa)
P*2, *3	With unit switching function (Initial value: psi)

*2 Under the New Measurement Act, switches with the unit switching function are not permitted for use in Japan (implemented October 1999).

*3 Cannot be selected when ① is "VA" or "VB"

3 Lead wire

Nil	Without lead wire with connector
G	Lead wire with connector (Length: 2 m) (Included)
W	Lead wire for switch with energy saving function (Length: 2 m) (Included)

4 Check valve*4

Nil	None
K*5	With check valve

*4 The check valve has a function to prevent the exhaust air from the exhaust unit overflowing to the vacuum port side when a manifold is used, but it cannot prevent overflow of the exhaust air completely. During usage, please inspect thoroughly with actual machine.

Also, in order to completely prevent the overflow of exhaust air, leave plenty of space between the check valve unit and adjacent ejector to avoid interference from the ejector's exhaust unit.

*5 When "VA" or "VB" is specified for ①, the check valve is already built in.

⚠ Warning

- Cannot be used for vacuum retention
- Use a release valve. Without a release valve, a workpiece may not be released.

5 Fitting (V port)

Symbol	Applicable tubing O.D.
0	Without fitting (M5 x 0.8)

Lead Wire with Connector Assembly for Vacuum Pressure Switch

(When an individual lead wire is necessary, order with the part numbers below.)

· Lead wire with connector for vacuum pressure switch

ZS - 39 - 5G

· Lead wire with connector for pressure switch with energy saving function

ZQ1 - LW6 - N - A

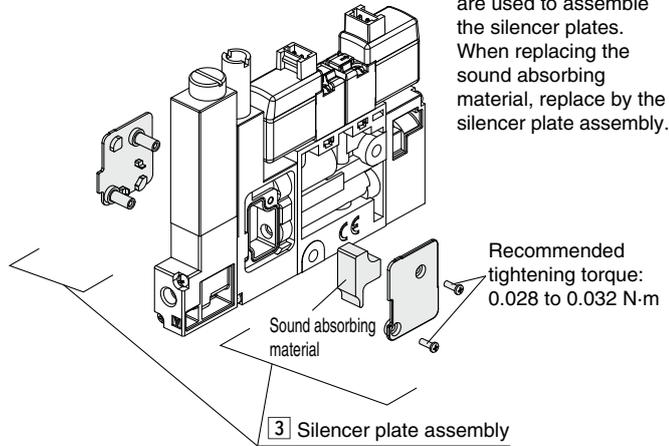
① Output

N	NPN open collector
P	PNP open collector

How to Order Replacement Parts for Single Unit

3 Silencer Plate Assembly

25A – ZQ1 – PL11 – A



4 Filter Case Assembly * One filter element is included.

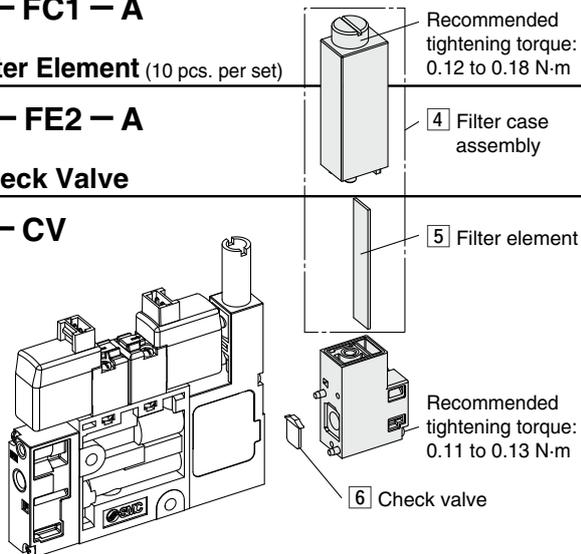
ZQ1 – FC1 – A

5 Filter Element (10 pcs. per set)

ZQ1 – FE2 – A

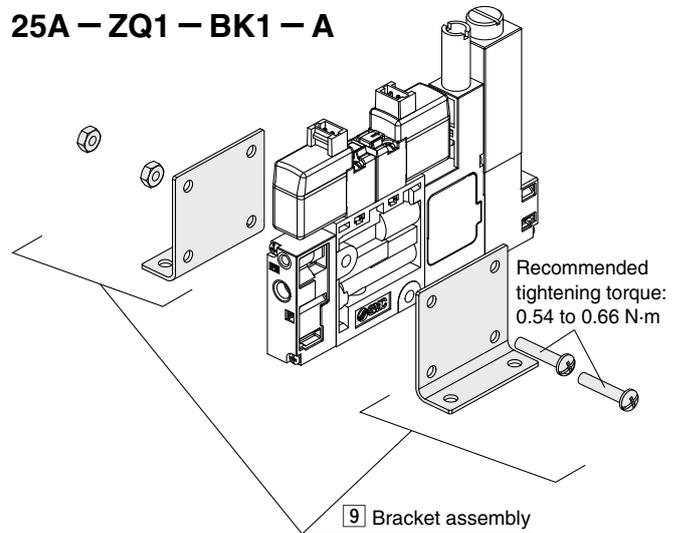
6 Check Valve

ZQ1 – CV



7 Bracket Assembly

25A – ZQ1 – BK1 – A



Directional Control Valves

Air Cylinders

Related Products

Rotary Actuators

Air Grippers

Vacuum Equipment

Air Preparation Equipment

Clean Air Filters

Modular F.R.L./Pressure Control Equipment

Flow Control Equipment/Fittings

Detection Switches

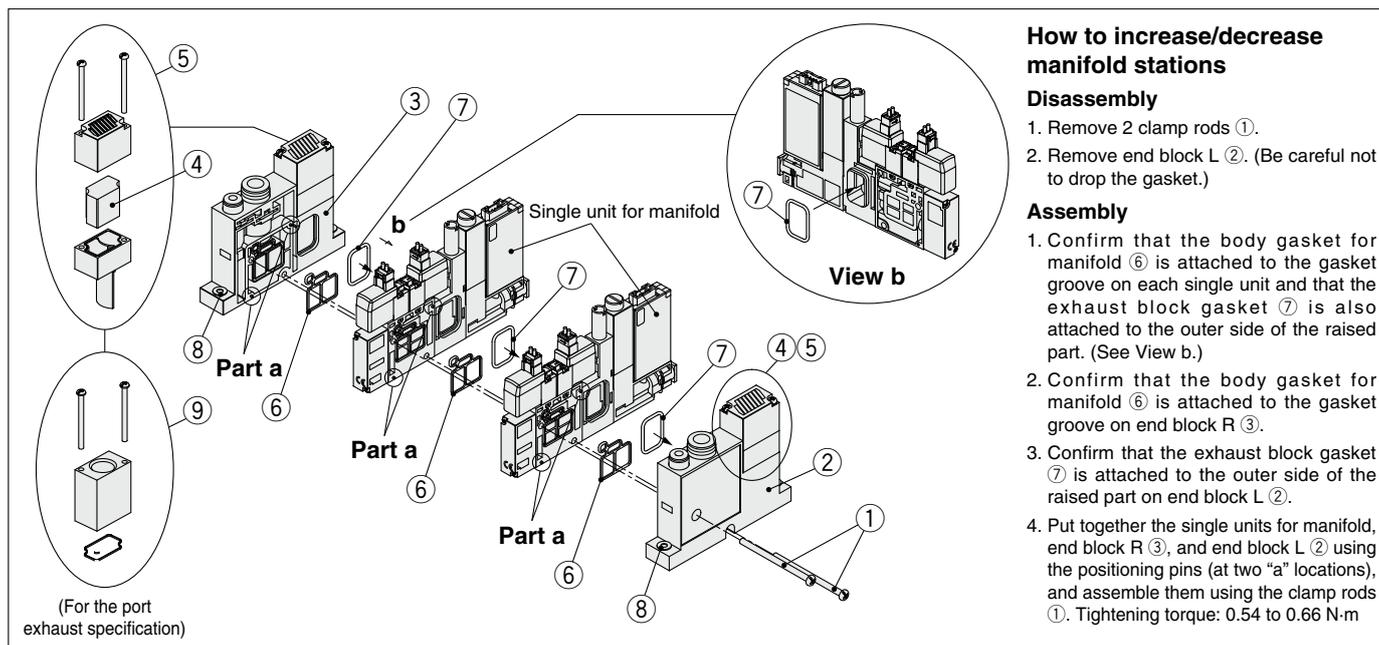
Fluid Control Equipment

Process Gas Equipment

Electric Actuators

Auto Switches

Compact Vacuum Unit/25A-ZQ□A Series Manifold Exploded View



Component Parts

No.	Description	Material	Note
1	Clamp rod assembly	Steel (Electroless nickel plating)	Refer to [1] below for how to order.
2	End block L	PBT, POM, PET, Steel, Aluminum alloy, Stainless steel	Left side with the vacuum (V) port facing the front
3	End block R	PBT, POM, PET, Steel, Aluminum alloy, Stainless steel	Right side with the vacuum (V) port facing the front
4	Sound absorbing material (For Manifold)	Non-woven fabric (PET)	Refer to [2] below for how to order.
5	Silencer block assembly	PBT	Refer to [3] below for how to order.
6	Body gasket for manifold	NBR	Refer to [4] below for how to order.
7	Exhaust block gasket	NBR	Refer to [5] below for how to order.
8	Washer assembly	Stainless steel	Refer to [6] below for how to order.
9	Port block assembly	Aluminum alloy, Steel (Electroless nickel plating), NBR	Refer to [7] below for how to order.

How to Order Replacement Parts for Manifold

[1] Clamp Rod Assembly (2 pcs. per set)

25A - ZQ1 - SR1 - **04** - A **1** Stations

01	For 1 station
02	For 2 stations
⋮	⋮
08	For 8 stations

[2] Sound Absorbing Material (For Manifold)

(2 pcs. per set)

ZQ1 - SE2 - A

Recommended
tightening torque:
0.25 to 0.31 N·m

[3] Silencer Block Assembly

(2 pcs. per set)

25A - ZQ1 - SC1 - A

[2] Sound absorbing
material
(For Manifold)

[3] Silencer block
assembly

[4] Body Gasket for Manifold (10 pcs. per set)

ZQ - 3 - 005 - 10AS

[5] Exhaust Block Gasket (10 pcs. per set)

ZQ - 3 - 009 - 10AS

[6] Washer Assembly (4 pcs. per set)

25A - ZQ1 - WS **3** - A

[1] Size

3	For M3 (Without release pressure supply port)
4	For M4 (With release pressure supply port)

[7] Port Block Assembly

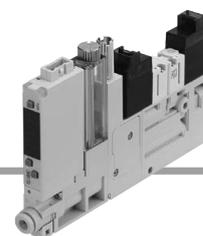
(2 pcs. per set)

25A - ZQ1 - EP2 - A

Recommended
tightening torque:
0.25 to 0.31 N·m

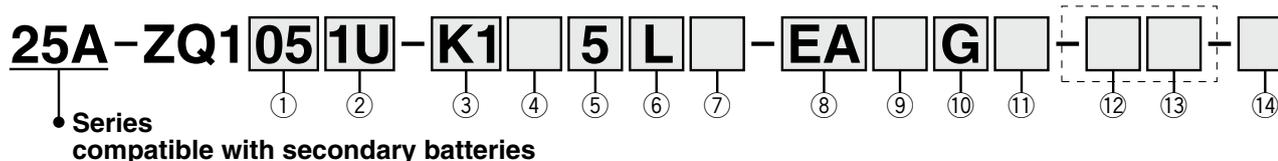
Space Saving Vacuum Ejector 25A-ZQ Series

The ZQ series space saving vacuum ejector/vacuum pump system is to be discontinued as of April 2023. Consider selecting a ZQ□A series compact vacuum unit as a substitute. [Click here for details.](#)



How to Order

Ejector Unit



① Nozzle nominal size

05	ø0.5
07	ø0.7
10	ø1.0

② Exhaust type

1U	With silencer for single unit
3M	With silencer for manifold

③ Solenoid valve combination (Refer to Table (1).)

Symbol	Supply valve	Vacuum release valve
K1	Normally closed	Normally closed
K2*1	Normally open	Normally closed
J1	Normally closed	None
J2*1	Normally open	None
Q1	Latching positive common	Normally closed
Q2	Latching positive common	None
N1	Latching negative common	Normally closed
N2	Latching negative common	None

*1 In cases when "K2" or "J2" (supply valve normally open) is selected for the solenoid valve combination, when vacuum is stopped for long periods of time (10 minutes or more), do not continue to energize the supply valve, and shut off the air supply.

④ Pilot valve (Refer to Table (1).)

Nil	Standard (DC: 1 W)*2
Y	DC low wattage type (0.5 W)*2

*2 Avoid energizing the solenoid valve for long periods of time. (Refer to Design and Selection in the Specific Product Precautions.)

⑤ Solenoid valve rated voltage (Refer to Table (1).)

		CE/UKCA-compliant
1*3	100 VAC (50/60 Hz)	—
2*3	200 VAC (50/60 Hz)	—
3*3	110 VAC (50/60 Hz)	—
4*3	220 VAC (50/60 Hz)	—
5	24 VDC	●
6	12 VDC	●

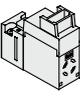
*3 CE/UKCA-compliant products are not available for "1," "2," "3" and "4."

Table (1) Combination of Solenoid Valve, Pilot Valve and Power Supply Voltage

Combination no.	Solenoid valve combination symbol	Pilot valve symbol	Applicable power supply voltage [V]					
			100 AC	200 AC	110 AC	220 AC	24 DC	12 DC
①	K1	Nil	—	—	—	—	●	●
②	K1	Y	—	—	—	—	●	●
③	K2	Nil	—	—	—	—	●	●
④	J1	Nil	●	●	●	●	●	●
⑤	J1	Y	—	—	—	—	●	●
⑥	J2	Nil	—	—	—	—	●	●
⑦	Q1	Nil	—	—	—	—	●	●
⑧	Q2	Nil	●	●	●	●	●	●
⑨	N1	Nil	—	—	—	—	●	●
⑩	N2	Nil	—	—	—	—	●	●

* Combinations ① to ⑩ in the above table are the only possible options.

⑥ Electrical entry

L	L-type plug connector, with 0.3 m lead wire, with light/surge voltage suppressor	
LO	L-type plug connector, without connector, with light/surge voltage suppressor	
G	Grommet, with 0.3 m lead wire (Latching/AC type: Not applicable)	

⑦ Manual override*4

Nil	Non-locking push type Latching type: Push-locking type
B	Locking type (Q1/Q2/N1/N2: Not applicable)

*4 Latching type supply valve: Available in "Nil" only. In this case, the supply valve and release valve come with a push-locking type.

⑧ Vacuum pressure switch suction filter*5

EA	0 to -101 kPa/NPN open collector 2 outputs, with suction filter
EB	0 to -101 kPa/PNP open collector 2 outputs, with suction filter
EC	0 to -101 kPa/NPN open collector 1 output + analog voltage, with suction filter
EE	0 to -101 kPa/PNP open collector 1 output + analog voltage, with suction filter
FA	100 to -100 kPa/NPN open collector 2 outputs, with suction filter
FB	100 to -100 kPa/PNP open collector 2 outputs, with suction filter
FC	100 to -100 kPa/NPN open collector 1 output + analog voltage, with suction filter
FE	100 to -100 kPa/PNP open collector 1 output + analog voltage, with suction filter
F	Suction filter only

*5 The filter included in this product is of a simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please make additional use of an air suction filter of the ZFA, ZFB or ZFC series.

⚠ Warning

The filter case of this suction filter is made of nylon. Contact with alcohol or similar chemicals may cause it to be damaged. Also, do not use the filter when these chemicals are present in the atmosphere.

⑪ Check valve*8

Nil	None
K	With check valve

*8 The check valve has a function to prevent the exhaust air from the silencer overflowing to the vacuum port side when a manifold is used. However, depending on usage conditions, it does not always suppress air overflow to the desired extent. During usage, please inspect thoroughly with actual machine. Also, in order to completely prevent the overflow of exhaust air, leave plenty of space between the check valve unit and adjacent ejector to avoid interference from the ejector's exhaust unit.

⚠ Warning

- ① Cannot be used for vacuum retention.
- ② Use a release valve. (Without a release valve, a workpiece may not be released.)

⑫ Fitting (V port)

Symbol	Applicable tubing O.D.
0	Without fitting (M5 x 0.8)

⑬ Fitting (P port)

Symbol	Applicable tubing O.D.	Object spec.
Nil	Without port	Manifold
0	Without fitting (M5 x 0.8)	Single unit

⑨ Vacuum pressure switch unit specifications

Nil	With unit switching function*6
M	Fixed SI unit*7
P	With unit switching function*6 (Initial value psi)

*6 Under the New Measurement Act, switches with the unit switching function are not permitted for use in Japan.

*7 Fixed unit: kPa

⑩ Vacuum pressure switch lead wire specifications

Nil	Without connector
G	Lead wire with connector (Lead wire length 2 m) With connector cover

⑭ CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

Directional Control Valves
Air Cylinders
Related Products
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Clean Air Filters
Modular F.R.L./Pressure Control Equipment
Flow Control Equipment/Fittings
Detection Switches
Fluid Control Equipment
Process Gas Equipment
Electric Actuators
Auto Switches

How to Order

Manifold

25A – ZZQ1 07 – B S C

Number of stations*1

01	1 station
02	2 stations
⋮	⋮
08	8 stations

*1 Number of stations varies according to nozzle nominal size during simultaneous operation.

Maximum Number of Stations in Simultaneous Operation

Nozzle nominal size	Maximum number of stations in simultaneous operation
ø0.5	8 stations
ø0.7	6 stations
ø1.0	4 stations

Air pressure supply (P) port position

B	Both sides
----------	------------

Exhaust

S	With silencers (Both sides)
----------	-----------------------------

Vacuum release pressure supply port (PD port)

B	None (Release pressure is supplied from the P port.)
C	Provided (Air can be alternatively supplied from the P port.)

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

How to Order

Solenoid valve

25A-ZQ1-VQ1 1 0 [] - 5 L []
25A-ZQ1-VQ1 2 0 [] - 5 L []

Actuation
 1 Normally closed
 2 Normally open

Pilot valve
 Nil Standard (DC: 1 W)
 Y DC low wattage type (0.5 W)
 * AC type: Not applicable
 L Latching positive common
 N Latching negative common

Solenoid valve rated voltage
 1 100 VAC (50/60 Hz)
 2 200 VAC (50/60 Hz)
 3 110 VAC (50/60 Hz)
 4 220 VAC (50/60 Hz)
 5 24 VDC
 6 12 VDC

Manual override*1
 Nil Non-locking push type
 Latching type: Push-locking type
 B Locking type
 *1 Latching type: Available in "Nil" only

Electrical entry*2
 L L-type plug connector, with 0.3 m lead wire
 LO L-type plug connector, without connector
 G Grommet, with 0.3 m lead wire (Latching/AC type: Not applicable)

Solenoid valve rated voltage
 5 24 VDC
 6 12 VDC

*2 Mounting screws are attached.

Vacuum pressure switch

25A-ZQ1-ZS [] [] [] [] - [] - A

Vacuum pressure switch specifications

EA	0 to -101 kPa/NPN open collector 2 outputs, with suction filter
EB	0 to -101 kPa/PNP open collector 2 outputs, with suction filter
EC	0 to -101 kPa/NPN open collector 1 output + analog voltage, with suction filter
EE	0 to -101 kPa/PNP open collector 1 output + analog voltage, with suction filter
FA	100 to -100 kPa/NPN open collector 2 outputs, with suction filter
FB	100 to -100 kPa/PNP open collector 2 outputs, with suction filter
FC	100 to -100 kPa/NPN open collector 1 output + analog voltage, with suction filter
FE	100 to -100 kPa/PNP open collector 1 output + analog voltage, with suction filter

Vacuum pressure switch unit specifications

Nil	With unit switching function*1
M	Fixed SI unit*2
P	With unit switching function*1 (Initial value psi)

*1 Under the New Measurement Act, switches with the unit switching function are not permitted for use in Japan.
 *2 Fixed unit: kPa

Vacuum pressure switch lead wire specifications

Nil	Without connector
G	Lead wire with connector (lead wire length 2 m) With connector cover

Fitting (V port)
 Symbol Applicable tubing O.D.
 0 Without fitting (M5 x 0.8)

Check valve*3

Nil	None
K	With check valve

*3 The check valve has a function to prevent the exhaust air from the silencer overflowing to the vacuum port side when a manifold is used, but it is incapable of completely preventing overflow. During usage, please inspect thoroughly with actual machine. Also, in order to completely prevent the overflow of exhaust air, leave plenty of space between the check valve unit and adjacent ejector to avoid interference from the ejector's exhaust unit.

Warning
 ① Cannot be used for vacuum retention.
 ② Use a vacuum release valve. (Without a vacuum release valve, the workpiece may not be released.)

Lead wire with connector part no.	Note
ZS-39-5G	Lead wire length 2 m (With connector cover)

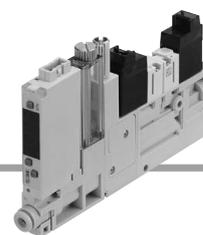
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

Space Saving Vacuum Pump System

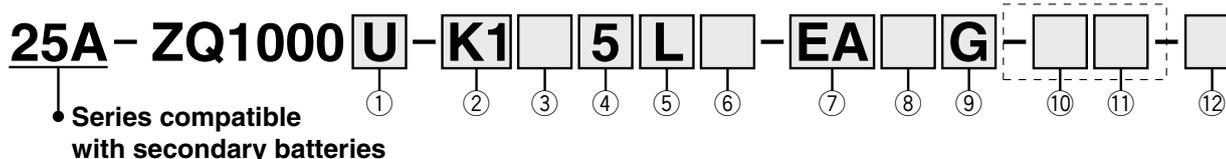
25A-ZQ Series

The ZQ series space saving vacuum ejector/vacuum pump system is to be discontinued as of April 2023. Consider selecting a ZQ□A series compact vacuum unit as a substitute. [Click here for details.](#)



How to Order

Vacuum pump unit



① Body type

U	For single unit
M	For manifold

② Solenoid valve combination (Refer to Table (1).)

Symbol	Supply valve	Vacuum release valve
K1	Normally closed	Normally closed
K2 *1	Normally open	Normally closed
J1	Normally closed	None
J2 *1	Normally open	None
Q1	Latching positive common	Normally closed
Q2	Latching positive common	None
N1	Latching negative common	Normally closed
N2	Latching negative common	None

⚠ The air in the adsorption section of this product is not released to the atmosphere at the vacuum suspension state.
As for "K1," "K2," "Q1" and "N1," use the vacuum release valve when a workpiece is detached.
Concerning "J1," "J2," "Q2" and "N2," devise the circuit for the vacuum release additionally when a workpiece is detached.

*1 In cases when "K2" or "J2" (supply valve normally open) is selected for the solenoid valve combination, when vacuum is stopped for long periods of time (10 minutes or more), do not continue to energize the supply valve, and shut off the air supply.

③ Pilot valve (Refer to Table (1).)

Nil	Standard (DC: 1 W)*2
Y	DC low wattage type (0.5 W)*2

*2 Avoid energizing the solenoid valve for long periods of time. (Refer to Specific Product Precautions; Caution on Design and Selection.)

④ Solenoid valve rated voltage (Refer to Table (1).)

		CE/UKCA-compliant
1 *3	100 VAC (50/60 Hz)	—
2 *3	200 VAC (50/60 Hz)	—
3 *3	110 VAC (50/60 Hz)	—
4 *3	220 VAC (50/60 Hz)	—
5	24 VDC	●
6	12 VDC	●

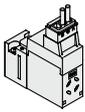
*3 CE/UKCA-compliant products are not available for "1," "2," "3" and "4."

Table (1) Combination of Solenoid Valve, Pilot Valve and Rated Voltage

Combination no.	Solenoid valve combination symbol	Pilot valve symbol	Applicable power supply voltage [V]					
			100 AC	200 AC	110 AC	220 AC	24 DC	12 DC
①	K1	Nil	—	—	—	—	●	●
②	K1	Y	—	—	—	—	●	●
③	K2	Nil	—	—	—	—	●	●
④	J1	Nil	●	●	●	●	●	●
⑤	J1	Y	—	—	—	—	●	●
⑥	J2	Nil	—	—	—	—	●	●
⑦	Q1	Nil	—	—	—	—	●	●
⑧	Q2	Nil	●	●	●	●	●	●
⑨	N1	Nil	—	—	—	—	●	●
⑩	N2	Nil	—	—	—	—	●	●

* Combinations ① to ⑩ in the above table are the only possible options.

⑤ Electrical entry

L	L-type plug connector, with 0.3 m lead wire, with light/surge voltage suppressor	
LO	L-type plug connector, without connector, with light/surge voltage suppressor	
G	Grommet, with 0.3 m lead wire (Latching/AC type: Not applicable)	

⑥ Manual override*4

Nil	Non-locking push type Latching type: Push-locking type
B	Locking type (Q1/Q2/N1/N2: Not applicable)

*4 Latching type supply valve: Available in "Nil" only. In this case, the supply valve and release valve come with a push-locking type.

⑦ Vacuum pressure switch suction filter*5

EA	0 to -101 kPa/NPN open collector 2 outputs, with suction filter
EB	0 to -101 kPa/PNP open collector 2 outputs, with suction filter
EC	0 to -101 kPa/NPN open collector 1 output + analog voltage, with suction filter
EE	0 to -101 kPa/PNP open collector 1 output + analog voltage, with suction filter
FA	100 to -100 kPa/NPN open collector 2 outputs, with suction filter
FB	100 to -100 kPa/PNP open collector 2 outputs, with suction filter
FC	100 to -100 kPa/NPN open collector 1 output + analog voltage, with suction filter
FE	100 to -100 kPa/PNP open collector 1 output + analog voltage, with suction filter
F	Suction filter only

*5 The filter included in this product is of a simple type, and will become clogged quickly in environments with high quantities of dust or particulates. Please make additional use of an air suction filter of the ZFA, ZFB or ZFC series.

⚠ Warning

The filter case of this suction filter is made of nylon. Contact with alcohol or similar chemicals may cause it to be damaged. Also, do not use the filter when these chemicals are present in the atmosphere.

⑩ Fitting (V port)*8

Symbol	Applicable tubing O.D.
0	Without fitting (M5 x 0.8)

⑪ Fitting (PS / PV port)*8

Symbol	Applicable tubing O.D.	Part no.	Object spec.
Nil	Without port	—	Manifold
0	Without fitting (M5 x 0.8)	—	Single unit

⑫ CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

*8 For filter only (Without vacuum pressure switch)

When neither V port fitting nor PS/PV port fitting are needed, enter nothing or -00 in the dotted line "How to Order".

⑧ Vacuum pressure switch unit specifications

Nil	With unit switching function*6
M	Fixed SI unit*7
P	With unit switching function*6 (Initial value psi)

*6 Under the New Measurement Act, switches with the unit switching function are not permitted for use in Japan.

*7 Fixed unit: kPa

⑨ Vacuum pressure switch lead wire specifications

Nil	Without connector
G	Lead wire with connector (Lead wire length 2 m) With connector cover

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

Directional Control Valves
 Air Cylinders
 Related Products
 Rotary Actuators
 Air Grippers
 Vacuum Equipment
 Air Preparation Equipment
 Clean Air Filters
 Modular F.R.L./Pressure Control Equipment
 Flow Control Equipment/Fittings
 Detection Switches
 Fluid Control Equipment
 Process Gas Equipment
 Electric Actuators
 Auto Switches

How to Order

Manifold 25A-ZZQ1 08 - [] O []

Number of stations ●

01	1 station
02	2 stations
⋮	⋮
08	8 stations

Vacuum pressure supply port (PV port)
Port location
(Refer to Table (1).)

L	Left side
R	Right side

Table (1) Air Pressure Supply Port Location on the Manifold

PD port	Manifold Port location	Left			Right		
		PS	PV	PD	PS	PV	PD
B	L (Left side)	—	●	—	●*1	—	—
	R (Right side)	●*1	—	—	—	●	—
C	L (Left side)	—	●	●	●	—	●
	R (Right side)	●	—	●	—	●	●

*1 The position of each port is shown as right and left sides viewed from the front side of the vacuum port.

Release pressure is commonly supplied from the PS port.

* PS: Pilot pressure supply port, PV: Vacuum pressure supply port, PD: Release pressure supply port

Release pressure supply port (PD port) ●

B	None (Release pressure is supplied from the PS port.)
C	Provided (Air can be alternatively supplied from the PS port.)

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

How to Order

Solenoid valve

Actuation

1	Normally closed
---	-----------------

25A-ZQ1-VQ1 1 0 - **5 L**

25A-ZQ1-VQ1 2 0 - **5 L**

Actuation

2	Normally open
---	---------------

Pilot valve

Nil	Standard (1 W)
-----	----------------

Solenoid valve rated voltage

5	24 VDC
6	12 VDC

Pilot valve

Nil	Standard (DC: 1 W)
Y	DC low wattage type (0.5 W) * AC type: Not applicable
L	Latching positive common
N	Latching negative common

Solenoid valve rated voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Manual override*1

Nil	Non-locking push type Latching type: Push-locking type
B	Locking type

*1 Latching type: Available in "Nil" only

Electrical entry*2

L	L-type plug connector, with 0.3 m lead wire	
LO	L-type plug connector, without connector	
G	Grommet, with 0.3 m lead wire (Latching/AC type: Not applicable)	

*2 Mounting screws are attached.

Vacuum pressure switch

25A-ZQ1-ZS - **A**

Vacuum pressure switch specifications

EA	0 to -101 kPa/NPN open collector 2 outputs, with suction filter
EB	0 to -101 kPa/PNP open collector 2 outputs, with suction filter
EC	0 to -101 kPa/NPN open collector 1 output + analog voltage, with suction filter
EE	0 to -101 kPa/PNP open collector 1 output + analog voltage, with suction filter
FA	100 to -100 kPa/NPN open collector 2 outputs, with suction filter
FB	100 to -100 kPa/PNP open collector 2 outputs, with suction filter
FC	100 to -100 kPa/NPN open collector 1 output + analog voltage, with suction filter
FE	100 to -100 kPa/PNP open collector 1 output + analog voltage, with suction filter

Vacuum pressure switch unit specifications

Nil	With unit switching function*1
M	Fixed SI unit*2
P	With unit switching function*1 (Initial value psi)

*1 Under the New Measurement Act, switches with the unit switching function are not permitted for use in Japan.
*2 Fixed unit: kPa

Vacuum pressure switch lead wire specifications

Nil	Without connector
G	Lead wire with connector (Lead wire length 2 m) With connector cover

Fitting (V port)

Symbol	Applicable tubing O.D.
0	Without fitting (M5 x 0.8)

Check valve*3

Nil	None
K	With check valve

*3 The check valve has a function to prevent the exhaust air from the silencer overflowing to the vacuum port side when a manifold is used, but it is incapable of completely preventing overflow. During usage, please inspect thoroughly with actual machine. Also, in order to completely prevent the overflow of exhaust air, leave plenty of space between the check valve unit and adjacent ejector to avoid interference from the ejector's exhaust unit.

Warning

- Cannot be used for vacuum retention.
- Use a vacuum release valve. (Without a vacuum release valve, the workpiece may not be released.)

Lead wire with connector part no.	Note
ZS-39-5G	Lead wire length 2 m (With connector cover)

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

Directional Control Valves
Air Cylinders
Related Products
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Vacuum Equipment
Air Preparation Equipment
Clean Air Filters
Modular F.R.L./Pressure Control Equipment
Flow Control Equipment/Fittings
Detection Switches
Fluid Control Equipment
Process Gas Equipment
Electric Actuators
Auto Switches

Vacuum Regulator

RoHS

25A-IRV10/20 Series



How to Order

Standard connections 25A-IRV 20 - [] C08 [] []

Series compatible with secondary batteries

Body size

10	Max. flow 140 L/min (ANR)
20	Max. flow 240 L/min (ANR)

Fittings

Nil	Straight
L	Elbow

Connection tubing O.D.

Symbol	Tubing O.D.	IRV10	IRV20
C06	Metric	●	●
C08		●	●
C10		—	●

Accessory ② [Supplied with product]

Nil	None*1
GN	Gauge nut assembly*2

*1 Two plug nuts are mounted on the gauge port. When the Rc1/8 port is required, please order the optional gauge nut assembly P601010-130 separately.

*2 One plug nut, one gauge nut (Rc1/8), and two clips are included. The pressure gauge and digital pressure switch are not included.

Accessory ① [Supplied with product]

Nil	None
B	With bracket

Single sided connections 25A-IRV 20 A - [] C08 [] []

Series compatible with secondary batteries

Body size

10	Max. flow 140 L/min (ANR)
20	Max. flow 240 L/min (ANR)

Single sided connections

A	Single sided connections
---	--------------------------

Fittings

Nil	Straight
L	Elbow

Connection tubing O.D.

Symbol	Tubing O.D.	IRV10A	IRV20A
C06	Metric	●	●
C08		●	●
C10		—	●

Accessory ② [Supplied with product]

Nil	None*1
GN	Gauge nut assembly*2

*1 Two plug nuts are mounted on the gauge port. When the Rc1/8 port is required, please order the optional gauge nut assembly P601010-130 separately.

*2 One gauge nut (Rc1/8) and one clip are included. The pressure gauge and digital pressure switch are not included.

Accessory ① [Supplied with product]

Nil	None
B	With bracket

* This product cannot be used in environments containing chemical agents such as hydrofluoric acid, etc.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.