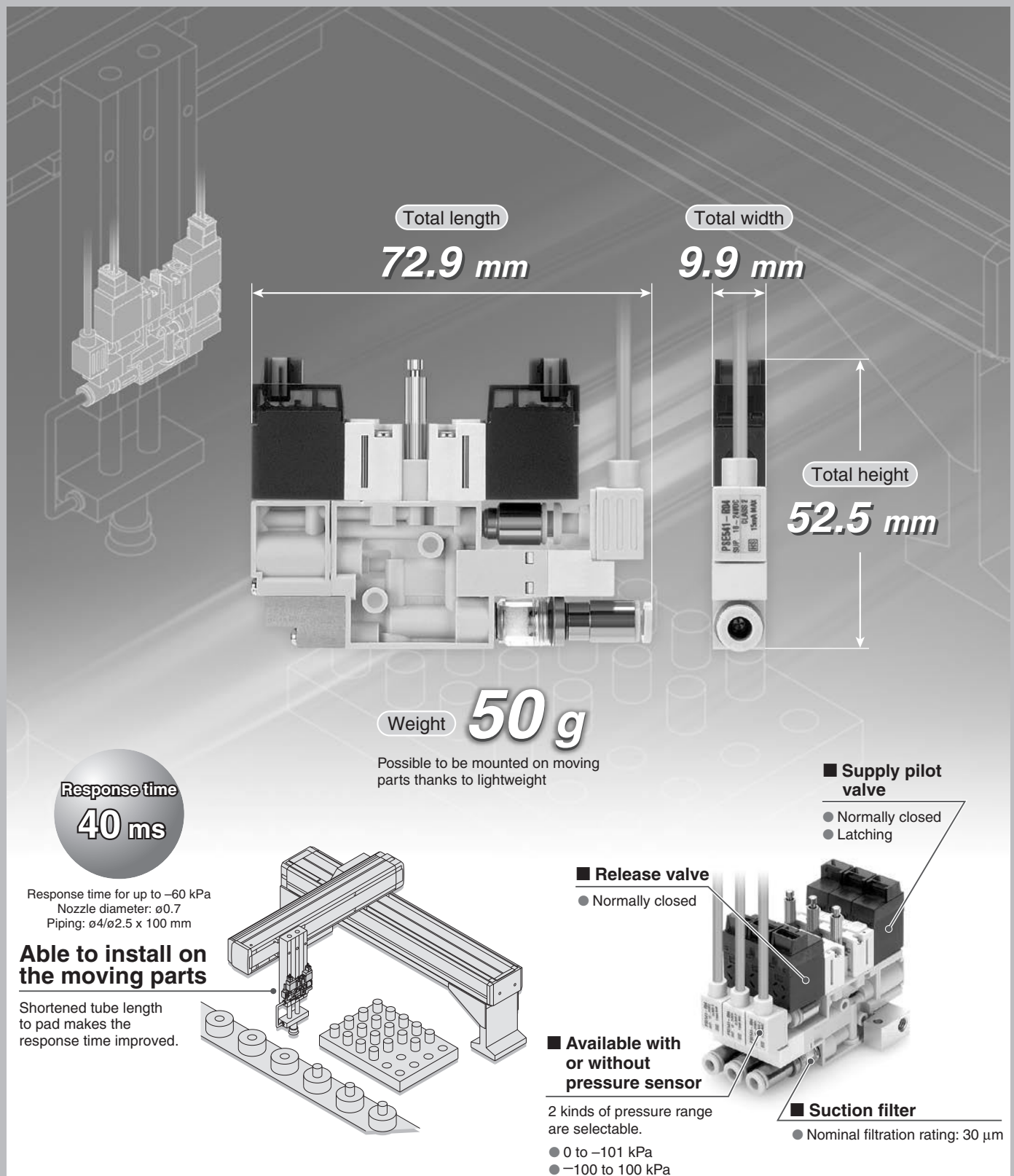


Compact Vacuum Ejector

Series **ZA**



Total length
72.9 mm

Total width
9.9 mm

Total height
52.5 mm

Weight **50 g**

Possible to be mounted on moving parts thanks to lightweight

Response time
40 ms

Response time for up to -60 kPa
Nozzle diameter: $\phi 0.7$
Piping: $\phi 4/\phi 2.5 \times 100$ mm

Able to install on the moving parts

Shortened tube length to pad makes the response time improved.

■ **Supply pilot valve**

- Normally closed
- Latching

■ **Release valve**

- Normally closed

■ **Available with or without pressure sensor**

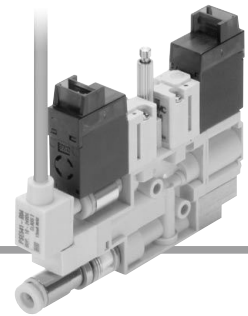
2 kinds of pressure range are selectable.

- 0 to -101 kPa
- -100 to 100 kPa

■ **Suction filter**

- Nominal filtration rating: 30 μ m

Compact Vacuum Ejector Series ZA



How to Order

Ejector Unit

ZA1071-K15L-P1-01

Nozzle nominal size

05	0.5
07	0.7

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

Symbol	Supply pilot valve	Release valve
K1	Normally closed	Normally closed
J1	Normally closed	None
Q1	Latching positive common	Normally closed
Q2	Latching positive common	None
N1	Latching negative common	Normally closed
N2	Latching negative common	None

Pilot valve (Refer to Table (1).)

Nil	Standard (1 W for DC) ^{Note)}
Y	DC low wattage type (0.5 W) ^{Note)}

Note) Avoid energizing the solenoid valve for long periods of time. (Refer to Design and Selection on Specific Product Precautions 1.)

Power supply voltage (Refer to Table (1).)

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

Electrical entry

L	L plug connector, with 0.3 m lead wire, with light/surge voltage suppressor	
LO	L plug connector, without connector, with light/surge voltage suppressor	
M	M plug connector, with 0.3 m lead wire, with light/surge voltage suppressor	
MO	M plug connector, without connector, with light/surge voltage suppressor	
G	Grommet, with 0.3 m lead wire (Not available for latching and AC types.)	

Vacuum (V) port

Symbol	Applicable tubing O.D.
1	3.2 (Straight)
2	4 (Straight)
4	3.2 (Elbow)
5	4 (Elbow)

Air pressure supply (P) port

Symbol	Applicable tubing O.D.
0	Without fitting (M3 x 0.5)
2	4 (Straight)
5	4 (Elbow)
M	Without supply adapter ^{Note)} (For manifold)

Note) O-ring and round head combination screws AC00690 (M2 x 12) are attached to the supply adapter (M).

Pressure sensor specifications

Symbol	Rated pressure range and accuracy	Part no.
P1	With pressure sensor (0 to -101 kPa, accuracy $\pm 2\%$ F.S.)	PSE541
P1A	With pressure sensor (0 to -101 kPa, accuracy $\pm 1\%$ F.S.)	PSE541A
P3	With pressure sensor (-100 to 100 kPa, accuracy $\pm 2\%$ F.S.)	PSE543
P3A	With pressure sensor (-100 to 100 kPa, accuracy $\pm 1\%$ F.S.)	PSE543A
B	Without pressure sensor ^{Note 1)}	KQ2P-04

Note 1) One-touch fittings are plugged when the pressure sensor is mounted.

Note 2) This pressure switch detects pressure and converts the data into analog output.
When the product is used as a vacuum switch, a pressure sensor controller Series PSE300 (CAT.ES100-56) is necessary.

Suction filter

Nil	Without suction filter
F	With suction filter

Manual override

Nil	Non-locking push type (Tool required)
B	Latching type: Push-locking type (Tool required)
	Locking type (Tool required)

Note) Latching type (supply valve) has the push-locking type only, but either the push type or the locking type can be selected for the release valve.

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)					
			1 100 AC	2 200 AC	3 110 AC	4 220 AC	5 24 DC	6 12 DC
①	K1	Nil	—	—	—	—	●	●
②	K1	Y	—	—	—	—	●	●
③	J1	Nil	●	●	●	●	●	●
④	J1	Y	—	—	—	—	●	●
⑤	Q1	Nil	—	—	—	—	●	●
⑥	Q2	Nil	●	●	●	●	●	●
⑦	N1	Nil	—	—	—	—	●	●
⑧	N2	Nil	—	—	—	—	●	●

* Combinations (1) to (8) in the above table are the only possible options.

Warning

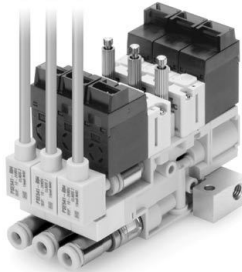
The filter case of this suction filter is made of nylon. The product will be damaged if solvents such as alcohol or chemicals are splashed on it. Avoid using it in an atmosphere where such solvents are present.

This suction filter is exclusive to Series ZA. Do not use for other purposes.

How to Order

Manifold

ZZA1 08 - 3 P



Number of stations

01	1 station
02	2 stations
⋮	⋮
08	8 stations

• **Right common air pressure supply (P) port**
(viewed from the vacuum (V) port side)

Symbol	Applicable tubing O.D.
0	Without fitting (M5 x 0.8)
2	4 (Straight)
3	6 (Straight)
5	4 (Elbow)
6	6 (Elbow)
P	With plug

• **Left common air pressure supply (P) port**
(viewed from the vacuum (V) port side)

Symbol	Applicable tubing O.D.
0	Without fitting (M5 x 0.8)
2	4 (Straight)
3	6 (Straight)
5	4 (Elbow)
6	6 (Elbow)
P	With plug

Maximum Simultaneous Operating Stations

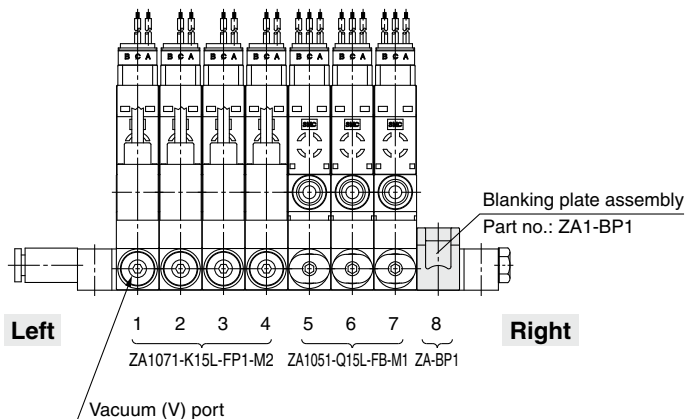
Manifold model	Ejector nozzle diameter	
	ø0.5	ø0.7
ZZA1 Stations -2P	4 stations	2 stations
ZZA1 Stations -22	8 stations	4 stations
ZZA1 Stations -3P	8 stations	4 stations
ZZA1 Stations -6P	6 stations	3 stations
ZZA1 Stations -33	8 stations	8 stations
ZZA1 Stations -66	8 stations	6 stations

Manifold Ordering Example

- ZZA108-2P → 1 pc.
 *ZA1071-K15L-FP1-M2 → 4 pcs. (Stations 1 to 4)
 *ZA1051-Q15L-FB-M1 → 3 pcs. (Stations 5 to 7)
 *ZA1-BP1 → 1 pc. (Station 8)

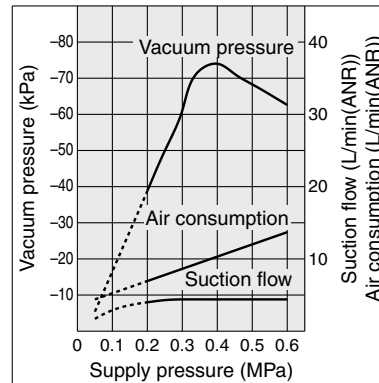
Blanking plate assembly

Note) The stations are sequentially numbered. When viewed from the side of the vacuum ports, the far left station is designated as station 1.



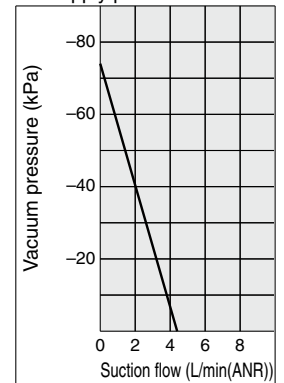
Flow / Exhaust Characteristics (Representative values)

ZA05 Exhaust Characteristics

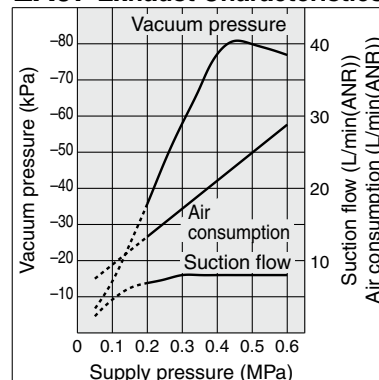


ZA05 Flow Characteristics

Supply pressure: 0.4 MPa

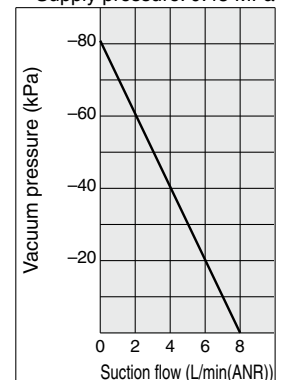


ZA07 Exhaust Characteristics



ZA07 Flow Characteristics

Supply pressure: 0.45 MPa



Specifications

General Specifications

Maximum operating pressure	0.50 MPa
Minimum operating pressure	0.20 MPa
Operating temperature range	5 to 50°C (No condensation)
Fluid	Air
Vibration resistance ^{Note)}	30 m/s ²

Note) There was no malfunction confirmed when tested under the following conditions: From 10 to 500 to 10 Hz and whichever of the following is smaller: 1.5 mm amplitude or 98 m/s² acceleration in X, Y, Z direction for 2 hours each. (initial value)

Ejector

Nozzle nominal diameter	0.5 mm	0.7 mm
Standard supply pressure ^{Note)}	0.40 MPa	0.45 MPa
Maximum vacuum pressure ^{Note)}	-74 kPa	-78 kPa
Maximum suction flow	4 L/min (ANR)	8 L/min (ANR)
Air consumption	12 L/min (ANR)	28 L/min (ANR)

Note) The maximum vacuum pressure was determined by applying the standard supply pressure.
Different supply pressures are required to determine a model.

Weight

Single unit	
With pressure sensor	50 g
Without pressure sensor	45 g
Manifold base	
1 station	9 g
2 stations	11 g
3 stations	13 g
4 stations	15 g
5 stations	17 g
6 stations	19 g
7 stations	21 g
8 stations	23 g

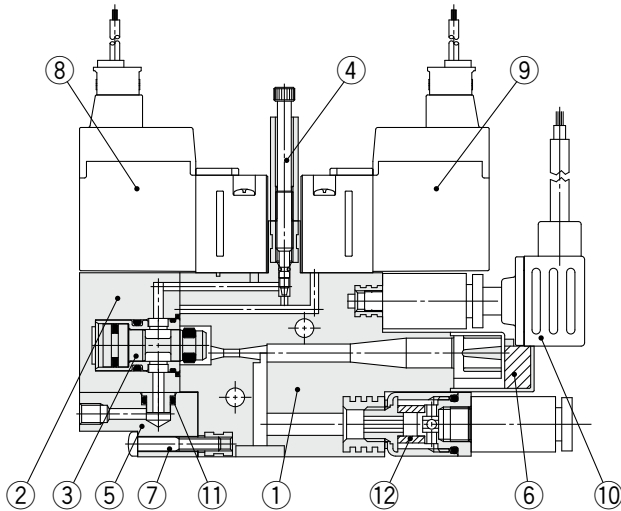
● Calculation of weight for the manifold type
(Single unit weight) x (Number of stations)
+ (Manifold base)

Example) 5 stations manifold with pressure sensors
50 (g) x 5 + 17 (g) = 267 (g)

Pressure Sensor

Model	PSE541	PSE541A	PSE543	PSE543A
Rated pressure range	0 to −101 kPa		−100 to 100 kPa	
Proof pressure	500 kPa			
Fluid	Air			
Output voltage	Analog output 1 to 5 V (within rated pressure range), 0.6 to 1 V (within extension analog output range)			
Output impedance	Approx. 1 kΩ			
Power supply	12 to 24 VDC ±10%, Ripple (p-p) 10% or less (with power supply polarity protection)			
Current consumption	15 mA or less			
Accuracy (Ambient temperature 25°C)	±2% F.S. (within rated pressure range)	±1% F.S. (within rated pressure range)	±2% F.S. (within rated pressure range)	±1% F.S. (within rated pressure range)
Linearity	±0.4% F.S.			
Repeatability	±0.2% F.S. Effects to the output value due to supply voltage: ±0.8% F.S.			
Temperature characteristics	±2% F.S. (based on 25°C)			
Operating humidity range	Operating/Stored: 35 to 85% RH (No condensation)			
Withstand voltage	1000 VAC or more, 50/60 Hz for 1 minute between terminals and housing			
Insulation resistance	50 MΩ or more (500 VDC measured via megohmmeter) between terminals and housing			
Sensor cable	Oilproof heavy-duty vinyl cable (ellipse), 3 cores, 2.7 x 3.2, 3 m, Conductor area: 0.15 mm², Insulator O.D.: 0.9 mm			

Construction



Component Parts

No.	Description	Material
1	Body	PBT
2	Valve cover	PBT
3	Poppet valve assembly	
4	Release flow adjusting needle assembly	
5	Supply adapter	

Replacement Parts

No.	Description	Part no.
6	Sound absorbing material	ZA1-SAE2
7*	Round head combination screw	AC00690 (M2 x 12)
8	Supply pilot valve	VQ110□-□□□
9	Release valve	VQ110□-□□□
10	Pressure sensor	PSE54□□-R04
11*	O-ring	KA00177
12	Filter element	ZA1-FE-30

* For above parts of No. 7 and No. 11, the parts assembly ZA1-OP-1 (10 pcs each) is available.

How to Order

Solenoid Valve

VQ110 □ - **5** **L** □

Pilot valve

Nil	Standard (1 W)
Y	Low wattage type (0.5 W) * Not applicable to AC type.
L	Latching positive common
N	Latching negative common

Rated coil voltage

1	100 VAC
2	200 VAC
3	110 VAC
4	220 VAC
5	24 VDC
6	12 VDC

Solenoid valve
connector assembly
part no.

Nil	Non-locking push type (Tool required)
	Latching type: Push-locking type (Tool required)
	B Locking type (Tool required)
Note) Latching manual override: Push-locking type only	

Electrical entry

L	L plug connector, with 0.3 m lead wire	
LO	L plug connector, without connector, with light/surge voltage suppressor	
M	M plug connector, with 0.3 m lead wire	
MO	M plug connector, without connector, with light/surge voltage suppressor	
G	Grommet, with 0.3 m lead wire (Not available for latching and AC types.)	

How to order connector assembly

DC

• Single

AXT661-14A-

DC positive common

• Latching

AXT661-13A-

DC negative common

• Latching

AXT661-13AN-

100 VAC

• Single

AXT661-31A-

• Latching

AXT661-32A-

200 VAC

• Single

AXT661-34A-

• Latching

AXT661-35A-

Connector, socket (3 pcs) only

AXT661-12A

Lead wire length

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

Lead-wire length of the plug connector

The lead-wire length for a valve with a lead-wire is 300 mm. When in need of a valve with a lead-wire longer than 600 mm, place an order for a valve without a connector and connector assembly.

Pressure Sensor

PSE54 **1** □ - **R04**

Rated pressure range

1	0 to -101 kPa
3	-100 to 100 kPa

Accuracy

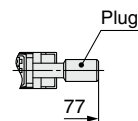
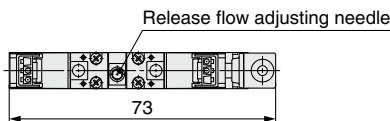
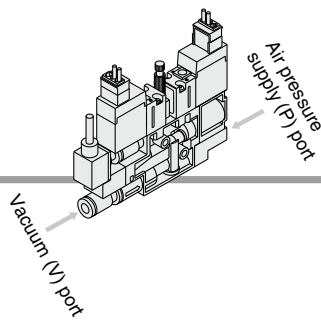
Nil	±2% F.S. or less
A	±1% F.S. or less

Series ZA

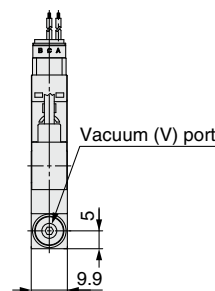
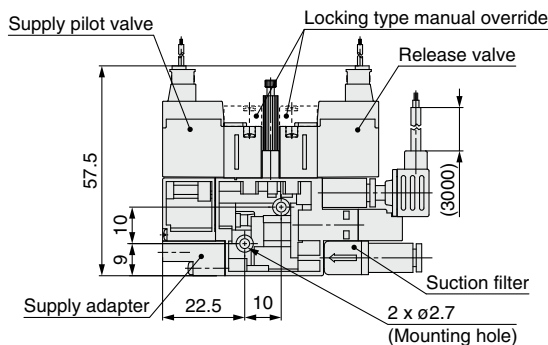
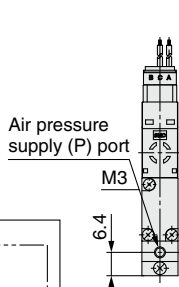
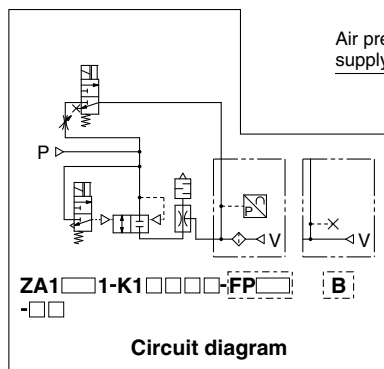
Dimensions

Type K1

ZA1□1-K1□□□□-□□□□

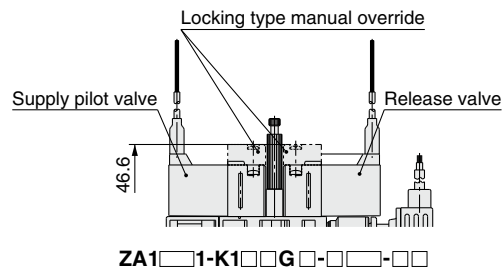
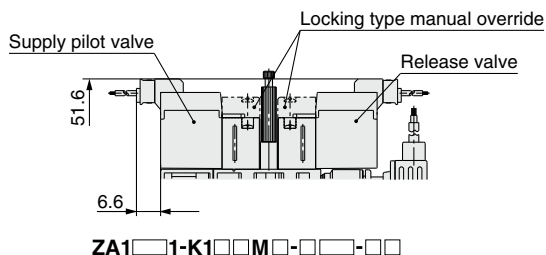


ZA1□1-K1□□□□-□B-□□



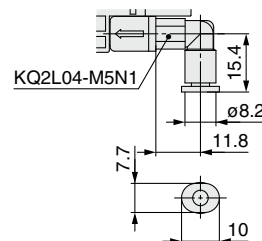
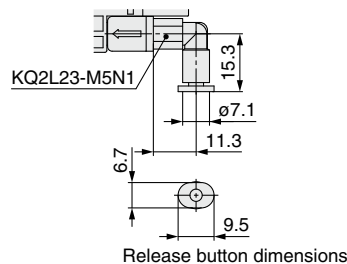
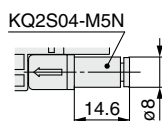
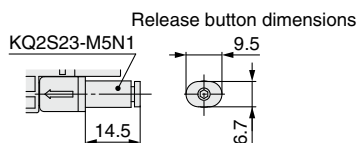
ZA1□1-K1□□L□-FP□□-02

Note) When the body is mounted, tighten with a torque of 0.6 ± 0.06 N·m. Using excessive torque may cause damage to the body.



Dimensions of the vacuum (V) and air pressure supply (P) port fittings after installation

Dimensions after the fittings are installed on the vacuum (V) port, and air pressure supply (P) port of a single unit are shown below.



ZA1□1-K1□□□□-□□□□-01

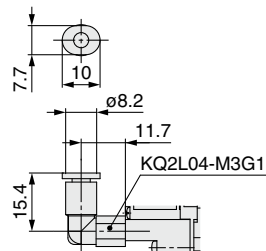
ZA1□1-K1□□□□-□□□□-02

ZA1□1-K1□□□□-□□□□-04

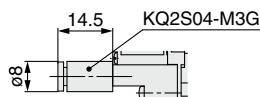
ZA1□1-K1□□□□-□□□□-05

Dimensions of the vacuum (V) port fittings after installation

Release button dimensions



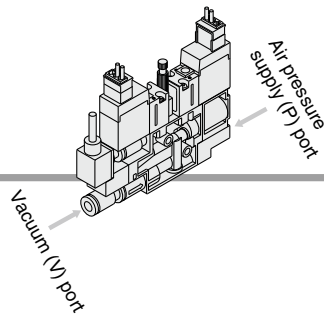
ZA1□1-K1□□□□-□□□□-5□



ZA1□1-K1□□□□-□□□□-2□

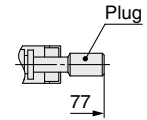
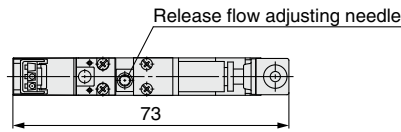
Dimensions of the air pressure supply (P) port fittings after installation

Dimensions

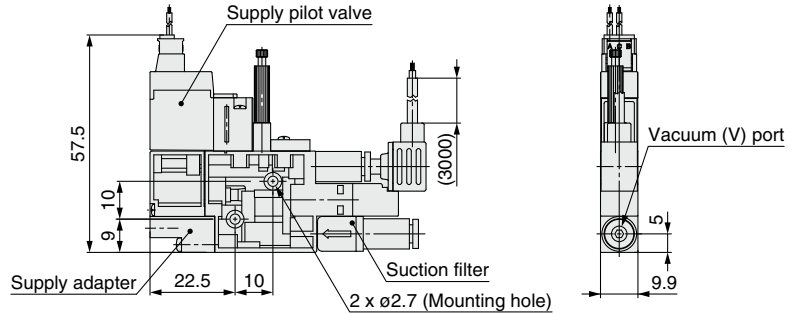
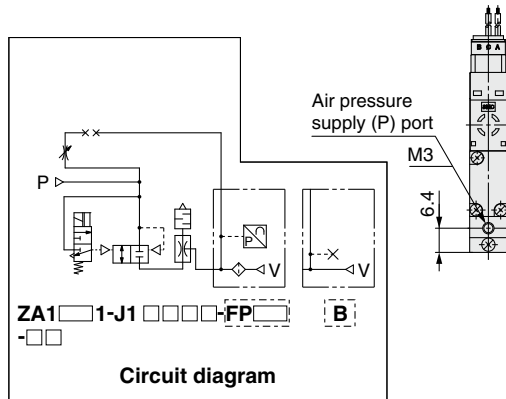


Type J1

ZA1□1-J1□□□□-□□-□□

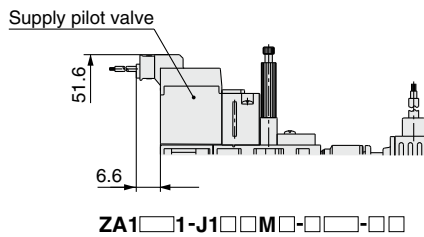


ZA1□1-J1□□□□-□B-□□

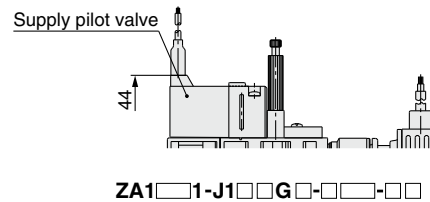


Note) When the body is mounted, tighten with a torque of 0.6 ± 0.06 N·m. Using excessive torque may cause damage to the body.

ZA1□1-J1□□L□-FP□□-02



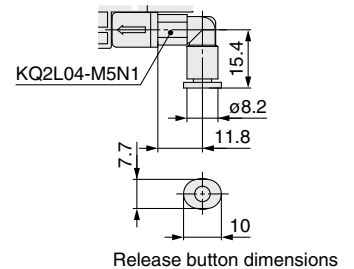
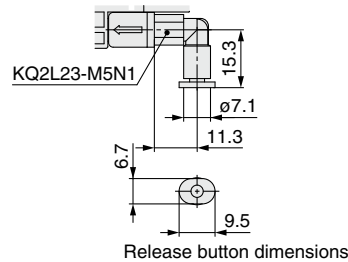
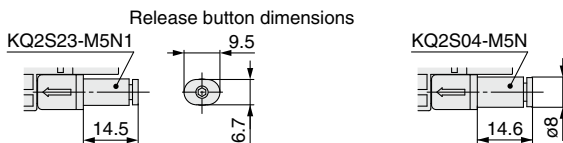
ZA1□1-J1□□M□-□□□□-□□



ZA1□1-J1□□G□-□□□□-□□

Dimensions of the vacuum (V) and air pressure supply (P) port fittings after installation

Dimensions after the fittings are installed on the vacuum (V) port, and air pressure supply (P) port of a single unit are shown below.



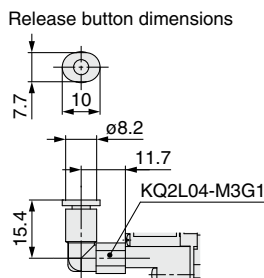
ZA1□1-J1□□□□□□□□-01

ZA1□1-J1□□□□□□□□-02

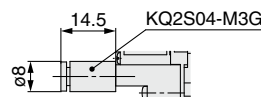
ZA1□1-J1□□□□□□□□-04

ZA1□1-J1□□□□□□□□-05

Dimensions of the vacuum (V) port fittings after installation



ZA1□1-J1□□□□□□□□-5□



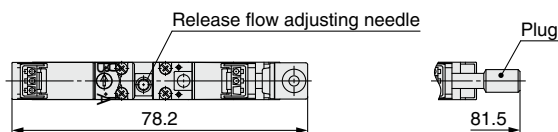
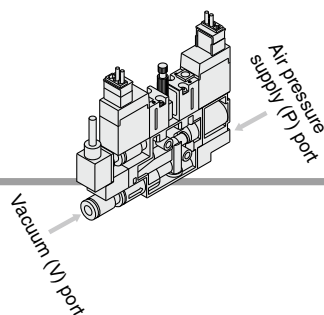
ZA1□1-J1□□□□□□□□-2□

Dimensions of the air pressure supply (P) port fittings after installation

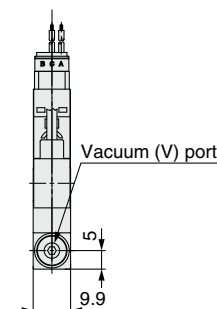
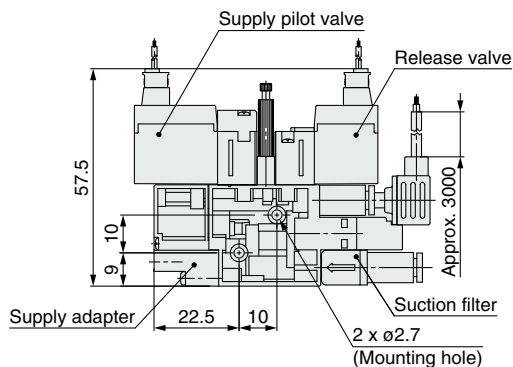
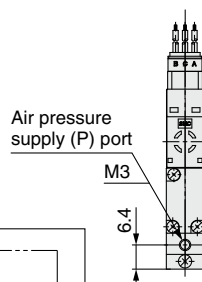
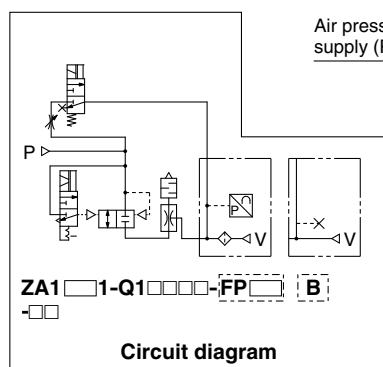
Series ZA

Dimensions

Type Q_1
 N_1
ZA1 \square 1- Q_1 N_1 \square \square \square \square \square \square

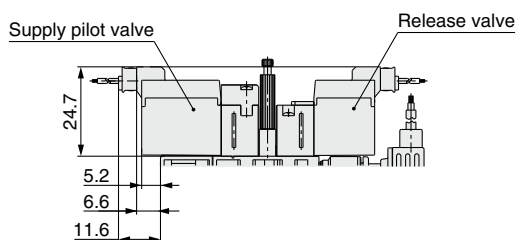


ZA1 \square 1- Q_1 N_1 \square \square \square \square **B** \square \square



Note) When the body is mounted, tighten with a torque of 0.6 ± 0.06 N·m. Using excessive torque may cause damage to the body.

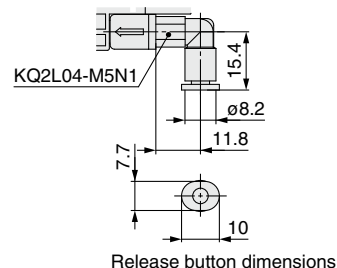
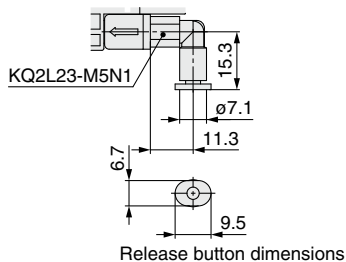
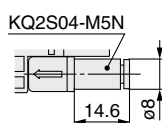
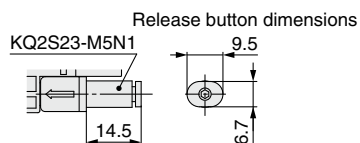
ZA1 \square 1- Q_1 N_1 \square \square **L** \square **FP** \square **02**



ZA1 \square 1- Q_1 N_1 \square \square **M** \square \square \square \square \square

Dimensions of the vacuum (V) and air pressure supply (P) port fittings after installation

Dimensions after the fittings are installed on the vacuum (V) port, and air pressure supply (P) port of a single unit are shown below.



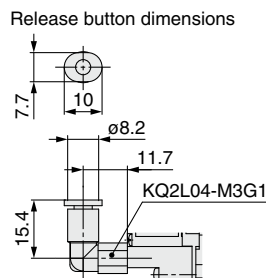
ZA1 \square 1- Q_1 N_1 \square \square \square \square \square **1**

ZA1 \square 1- Q_1 N_1 \square \square \square \square \square **2**

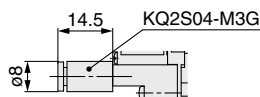
ZA1 \square 1- Q_1 N_1 \square \square \square \square \square **4**

ZA1 \square 1- Q_1 N_1 \square \square \square \square \square **5**

Dimensions of the vacuum (V) port fittings after installation



ZA1 \square 1- Q_1 N_1 \square \square \square \square \square **5**



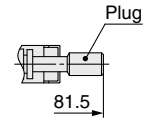
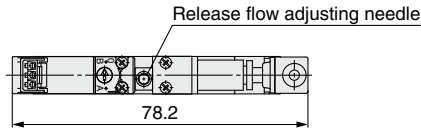
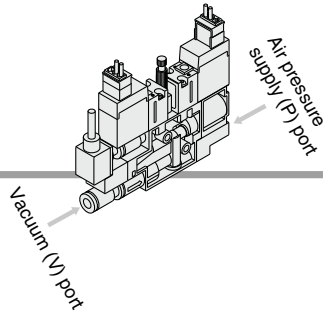
ZA1 \square 1- Q_1 N_1 \square \square \square \square \square **2**

Dimensions of the air pressure supply (P) port fittings after installation

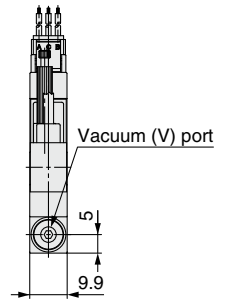
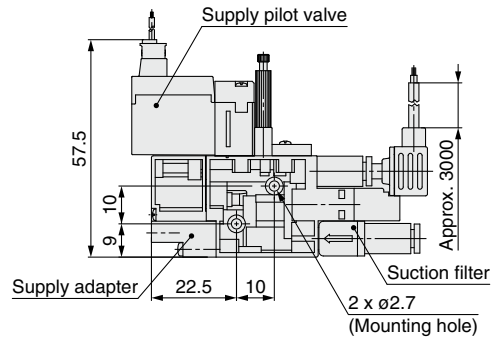
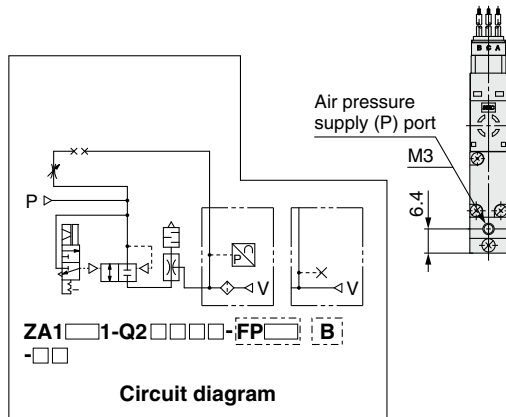
Dimensions

Type Q_2
 N_2

ZA1 \square 1- Q_2 N_2 \square \square \square - \square \square - \square \square

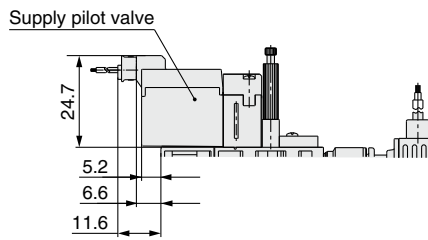


ZA1 \square 1- Q_2 N_2 \square \square \square - \square B- \square \square



Note) When the body is mounted, tighten with a torque of 0.6 ± 0.06 N·m. Using excessive torque may cause damage to the body.

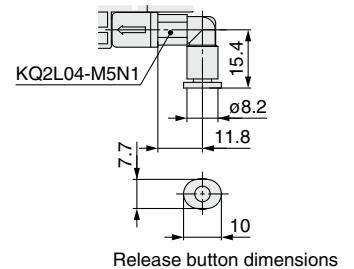
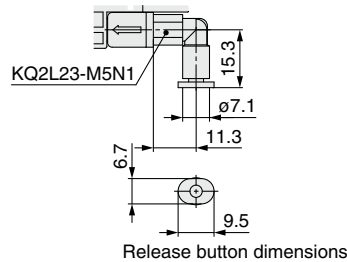
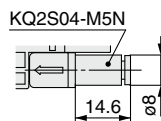
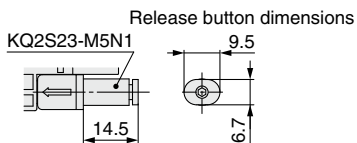
ZA1 \square 1- Q_2 N_2 \square L- \square FP- \square 02



ZA1 \square 1- Q_2 N_2 \square M- \square \square \square \square

Dimensions of the vacuum (V) and air pressure supply (P) port fittings after installation

Dimensions after the fittings are installed on the vacuum (V) port, and air pressure supply (P) port of a single unit are shown below.



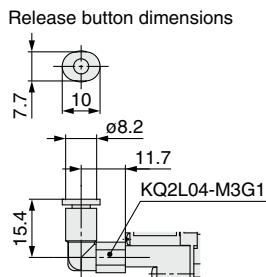
ZA1 \square 1- Q_2 N_2 \square \square \square - \square 1

ZA1 \square 1- Q_2 N_2 \square \square \square - \square 2

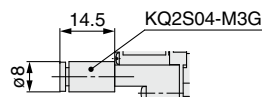
ZA1 \square 1- Q_2 N_2 \square \square \square - \square 4

ZA1 \square 1- Q_2 N_2 \square \square \square - \square 5

Dimensions of the vacuum (V) port fittings after installation



ZA1 \square 1- Q_2 N_2 \square \square \square - \square 5



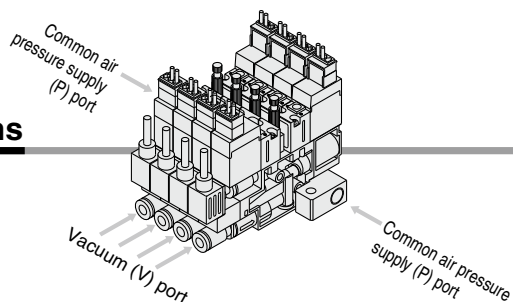
ZA1 \square 1- Q_2 N_2 \square \square \square - \square 2

Dimensions of the air pressure supply (P) port fittings after installation



Series ZA

Dimensions



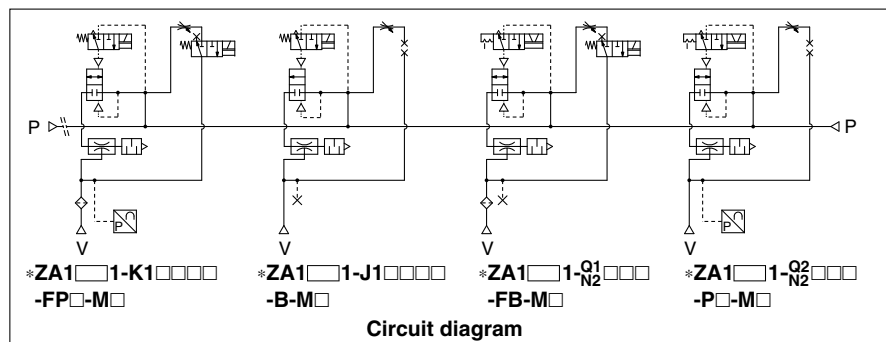
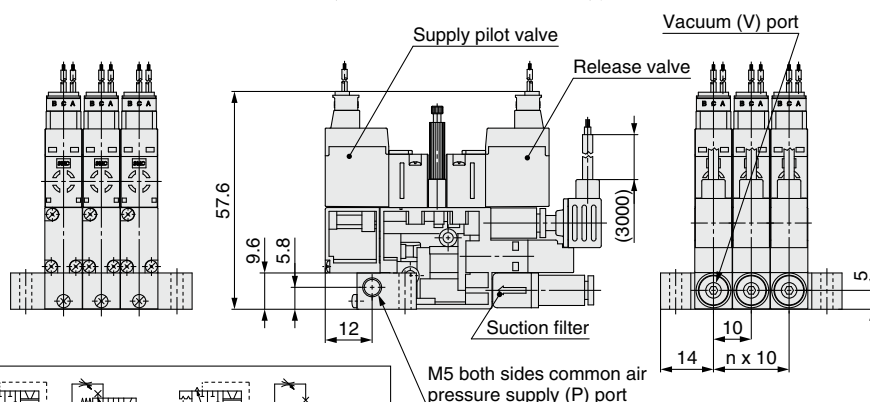
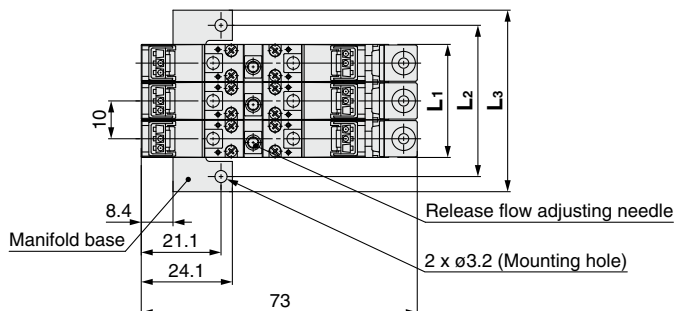
Manifold type (Common SUP)

ZZA1□-□

*ZA1□1-□□□□-□□-M□

Dimensions (mm)

Manifold part no.	Stations n	L ₁	L ₂	L ₃
ZZA101-□□	1	10	20	28
ZZA102-□□	2	20	30	38
ZZA103-□□	3	30	40	48
ZZA104-□□	4	40	50	58
ZZA105-□□	5	50	60	68
ZZA106-□□	6	60	70	78
ZZA107-□□	7	70	80	88
ZZA108-□□	8	80	90	98



Note 1) The above dimensions are for ZZA103-00.

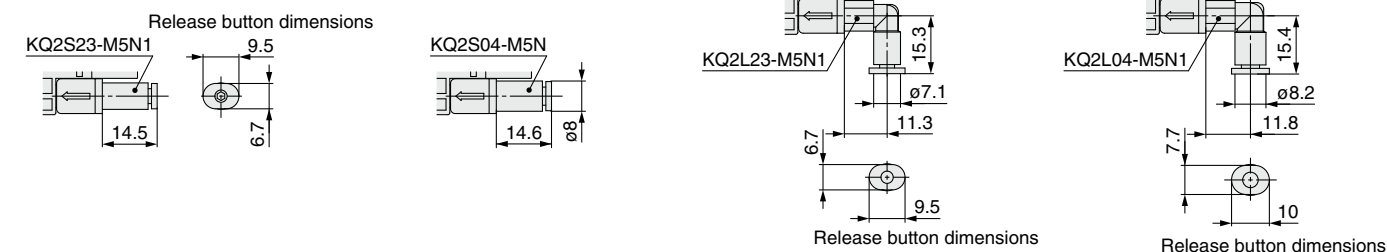
*ZA1□1-K1□□L-FP□-M2.

Note 2) When the body is mounted, tighten with a torque of 0.6 ± 0.06 N·m. Using excessive torque may cause damage to the body.

Note 3) When viewed from the manifold base, count the number of stations 1, 2 to (n) beginning from the left side.

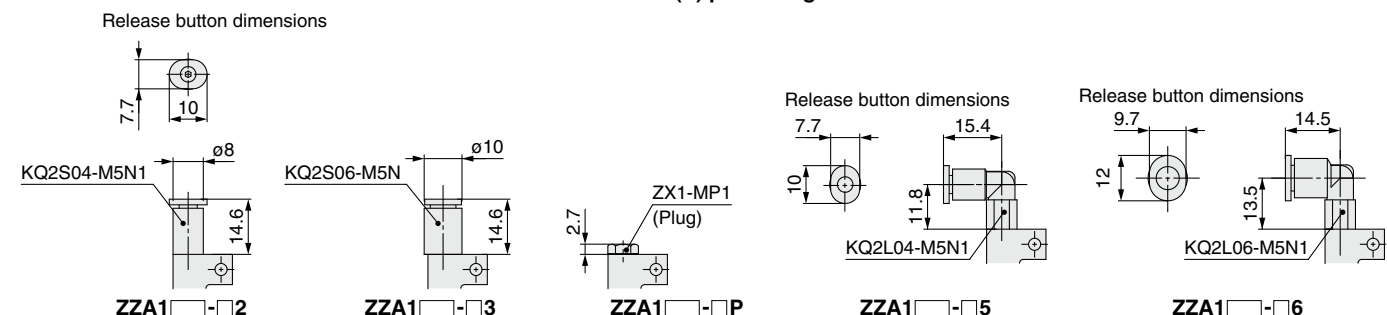
Dimensions of the vacuum (V) and air pressure supply (P) port fittings after installation

Dimensions after the fittings are installed on the vacuum (V) port, and the common air pressure supply (P) port of a manifold are shown below.



ZA1□1-□□□□-□□-M1 ZA1□1-□□□□-□□-M2 ZA1□1-□□□□-□□-M4 ZA1□1-□□□□-□□-M5

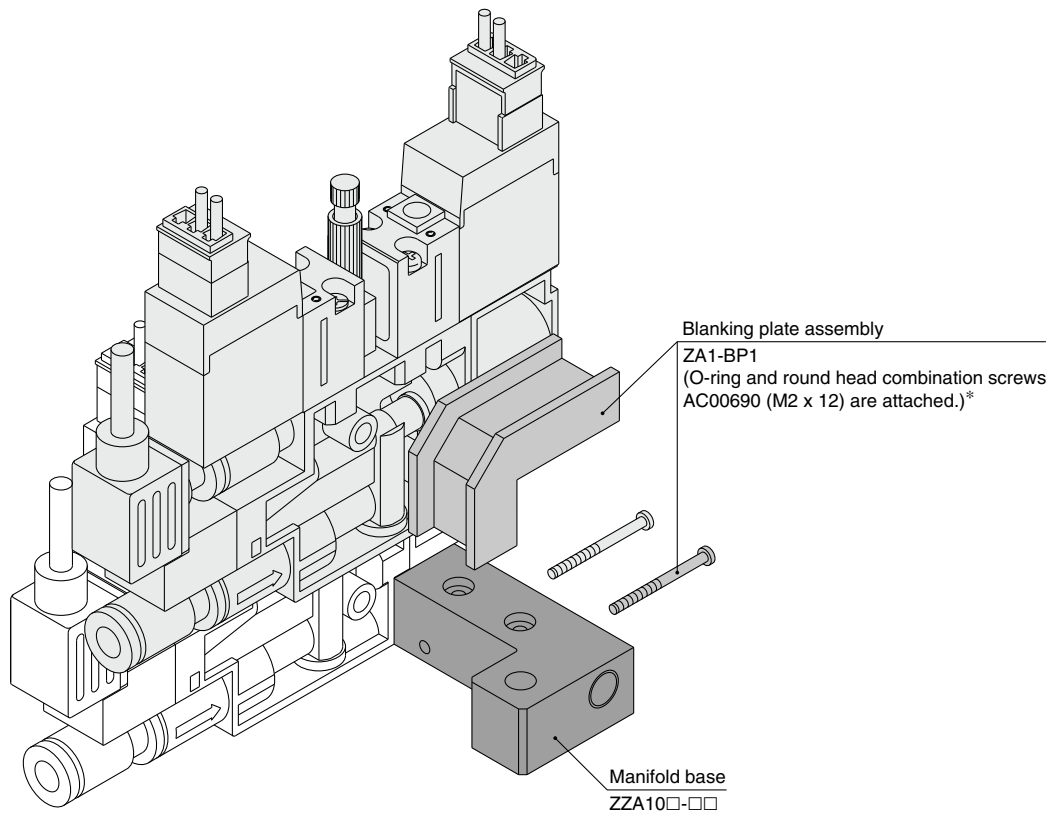
Dimensions of the vacuum (V) port fittings after installation



Dimensions after the fittings are installed on the common air pressure supply (P) port

Note) The above drawings show the vacuum port from the front with the fitting attached on the right side. It is the same as when the fitting is attached on the left side.

Manifold Type: How to Increase / Decrease Manifold Stations



* An assembly kit (part no. ZA1-OP-1) is available which includes 10 pcs each of O-rings and round head combination screws.



Series ZA Specific Product Precautions 1

Be sure to read before handling. Refer to Best Pneumatics No. 4 for Safety Instructions and Vacuum Equipment Precautions.

Design and Selection

Warning

1. Avoid energizing the solenoid valve for long periods of time.

If a solenoid valve is energized for a long period of time, the coil will get hot and the performance may be reduced. Additionally, the peripheral equipment in close proximity may also be badly affected. Use a low wattage solenoid valve when the solenoid valve is energized continuously or when the duration of the energization is longer than the non-energized period each day. Periods of energization can be shortened by using a latching type solenoid valve. But, do not energize the coil on both A and B sides simultaneously when using the latching type.

Continuous energization of the solenoid valve should be less than 10 minutes in duration and the energization period should be shorter than the non-energized period. Take measures for any heat radiation so that the temperature is within the range of solenoid valve specifications when the solenoid valve is mounted on the control panel. Please pay special attention to any temperature increases when a manifold type with 3 stations or more is energized continuously or when three individual units are placed in close proximity.

2. Use the vacuum equipment within the operating supply pressure range.

When the operating with a lower supply pressure, the vacuum performance will be reduced and the poppet valve will cause malfunction.

Never use the vacuum equipment more than the operating supply pressure range as this may cause damage to the product resulting in potentially dangerous operation.

3. Suspension of operation for long periods of time

Please use caution — as detailed below — when the vacuum equipment is turned off for periods in excess of 6 hours.

- Be sure to turn off the pressure supply to the vacuum equipment.

Please observe this precautions as the supply pressure will be applied for a extra period of time due to the line pressure increase and may result in damage to the vacuum equipment.

- Be sure to turn off the power supply to the solenoid valve and the pressure switch.

Please observe this precautions as any heat generated due to the length of energization time may seriously affect the vacuum equipment and peripheral equipment resulting in potentially dangerous operation.

4. Exhaust port (EXH port) on the vacuum ejector

Please check the exhaust port (EXH port) on the vacuum ejector, so that any exhaust resistance will not be increased due to insulating materials or restrictions in the piping. The exhaust resistance may reduce the ejector's performance. Additionally, never use this product in an application where the exhaust port is blocked when detaching a workpiece. This misuse may result in possible damage to the product.

5. Vacuum release flow adjusting needle

Adjust the vacuum release flow adjusting needle from the fully closed to the open state by 1/8 to 1/4 turns to detach a workpiece completely during the ON time of a release valve.

Do not supply compressed air while the vacuum release flow adjusting needle is adjusted. Securely lock it with a lock nut after adjustment.

Warning

6. How to use the latching type solenoid valve

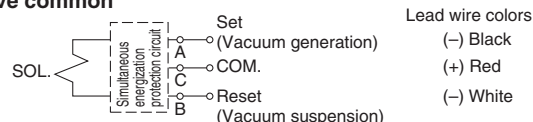
Our Latching type solenoid are fitted with a self-detaining mechanism. Its construction features an armature inside the solenoid which is set or reset using spontaneous energization. (20 ms or greater) Therefore, continuous energization is not required.

How to Use the Latching Type Plug Connector

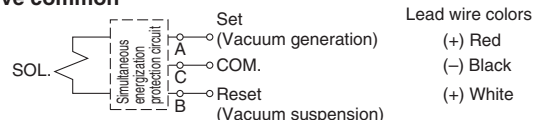
Wiring specifications

- Wiring should be connected as shown below. Connect with the power supply respectively.

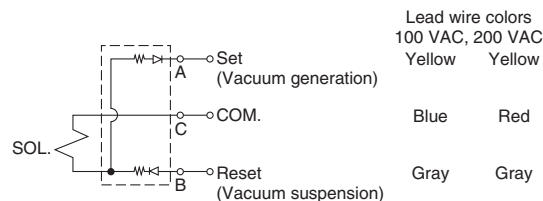
DC positive common



DC negative common



AC type



Special care must be taken for the latching type.

1. Avoid using this product with a circuit which electrifies both the set and reset signals simultaneously.
2. The minimum energization time required for self-detaining is 20 ms.
3. Please contact us when using this product in locations where there are vibration levels of 30 m/s² or above or highly magnetic fields. No problems arise in normal usage or locations.
4. This valve retains the reset position (Flow path: A → R) at the time of shipment. However, it may alter to the set position during transportation or due to vibration when mounting the valve. Therefore, confirm the home position either manually or with power supply prior to use.

7. Suction filter

This suction filter is dedicated to the ZA series. Avoid using it for other purposes.



Series ZA

Specific Product Precautions 2

Be sure to read before handling. Refer to Best Pneumatics No. 4 for Safety Instructions and Vacuum Equipment Precautions.

Mounting

Warning

1. When the body is mounted, tighten with a torque of 0.6 ± 0.06 N·m.

Using excessive torque may cause damage to the body.

2. When the filter assembly is mounted, tighten with a torque of 0.07 ± 0.01 N·m.

Using excessive torque may cause damage to the filter case.

Operating Environment

Warning

1. Suction filter

The filter case of this suction filter is made of nylon. The product will be damaged if solvents such as alcohol or chemicals are splashed on it. Avoid using it in an atmosphere where such solvents are present.