

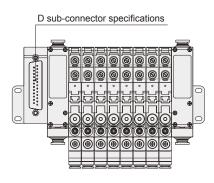
VSZM Series

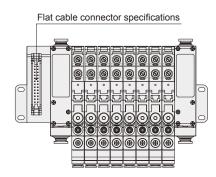
■ Nozzle diameter: ø0.5, ø0.7, ø1.0



Features

- Atmospheric pressure break of large flow rates is possible by installing an atmospheric pressure break valve, thereby greatly reducing the vacuum break time.
- Wiring for the vacuum generator valve and vacuum break valve.





- Either a single solenoid or self holding valve is selected.
- This energy-conserving suppresses the valve consumption to 0.55 W.
- The diverse lineup of vacuum switch variations is compatible with different applications.









1 point output type without display

1 point output + analog output type with LED display

2 point output type with LED display

- Manifold stations are increased, allowing specification changes to be handled flexibly.
- Maintenance is easy with the structure taking serviceability into consideration.
- Either the standard push-in joint or female screw piping is selected based on the application.
- Three nozzle diameters are available: 0.5 mm, 0.7 mm, and 1.0 mm.

٧SY

VSG

NSZM

Op

Specifications

Descriptions		VSZM		
Working fluid		Air		
Working pressure range	MPa	0.3 to 0.7		
Ambient temperature range	Ç	5 to 50		

Ejector characteristics

Model no.	Nozzle diameter (mm)	Supply pressure (MPa)	Ultimate vacuum (-kPa)	Suction flow (ℓ/min. (ANR))	Air consumption flow (ℓ/min. (ANR))
VSZM-H05	0.5	0.5	90.4	7	11.5
VSZM-L05	0.5	0.5	66.5	12	11.5
VSZM-H07		0.5	93.1	13	23
VSZM-L07	0.7	0.5	66.5	24	23
VSZM-E07		0.35	90.4	10	17
VSZM-H10	1.0	0.5	93.1	24	46
VSZM-E10	1.0	0.35	90.4	20	34

Solenoid valve specifications

Pilot valve

Descriptions	Vacuum generator valve	Vacuum break valve				
Actuation	Direct o	peration				
Valve structure	Rubber seal, poppet valve					
Rated voltage	24 VDC					
Tolerable voltage fluctuation range	21.6 VDC to 26.4 VDC					
Surge protective circuit	Surge absorber					
Power consumption	0.55W (v	with LED)				
Operational indicator light	During coil excitation: red LED ON	During coil excitation: yellow green LED ON				
Manual operation	Push & lock type					
Wiring method	D sub-connector, f	flat cable connector				

Switching valve

Descri	ptions	Vacuum gen	erator valve	Vacuum break valve			
Actuation			Indirect operatio	n with pilot valve			
Valve structure			Rubber seal, poppet valve				
Valve function	on	Single solenoid	Single solenoid				
Valve type			Normally closed				
Pressure res	sistance	1.05MPa					
Lubrication			Not re	quired			
Effective sectional a	area (Cv flow factor)	4.5mm ²	2 (0.24)	3.5mm² (0.19)			
Doonanaa tima	$OFF \rightarrow ON$	10msec	10msec	10msec			
Response time	$ON \rightarrow OFF$	15msec	10msec	15msec			

Vacuum switch specifications

Descriptions		Vacuum switch v	with LED display	Without display	Separate type	Analog	
Descr	ipuons	2 point switch output	1 point switch output	1 point switch output	Pressure indication gauge w/ switch	Analog	
Current con	sumption	401	mA	20mA	50mA	20mA	
Pressure det	ection method	Diffused	semiconductor pressur	e sensor	-	Diffused semiconductor pressure sensor	
Working pre	ssure range		-100 to 0kPa		-	-100 to 0kPa	
Set pressure	e range	-99 to 0kPa -999 to 999counts					
Withstandin	g pressure		0.2MPa		-	0.2MPa	
Storage temp	erature range	-20 to	080℃		-20 to 70°C		
Working temp	perature range	0 to	50°C	-10 to 60°C	-10 to 50℃ -10 to 60℃		
Working hur	midity range			35 to 85%RH			
Power volta	ge	12 to 24VDC ±10% rip	ple (P-P) 10% or less	10.8	8 to 30 VDC (including ripple)		
Protective s	tructure		IEC s	standards IP40 or equiv	ivalent		
Switch outp	ut point	2	1	1	2	-	
Switch opera	ition precision	±0.3%F.S. Max. (at Ta = 25°C)			-		
Hysteresis		Fixing	Variable	Fixing	Variable -		
Switch outp	ut		NPN open collector output			-	
	Output voltage	-	1 to 5V	-	1 to	5V	
	Zero point voltage	-	1±01 V	-	1±0)1 V	
Analog output	Span voltage	-	4±0.1 V	-	4±0	.1 V	
	Output current	-	1mA or less	-	0.5mA or less	1mA or less	
	LIN/HYS	-	±0.5%F.S. Max.	-	±0.5%F	.S. Max.	
Display		0 to -99kPa (2 digi	t red LED display)	-	3 digit red LED display	-	
Number of o	displays	Approx. 4	times/sec.	-	Approx. 4 times/sec.	-	
Display acc	uracy	±3%F.S	. ±2digit	-	±1%F.S.	-	
Resolution		1d	igit	-	1digit -		
Cuitab aparatia	nal indicator liabt	Red LED t	turns ON when SW1 ou	tput is ON	Green LED turns ON when SW1 output is ON	-	
Switch operatio	nal indicator light	Green LED turns ON when SW2 output is ON		-	Red LED turns ON when SW2 output is ON	-	

Vacuum break

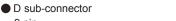
Descri	ptions	Vacuum break valve
Vacuum brea	k air flow rate	0 to 50ℓ/min. (ANR) 0.5MPa supply
Act	Actuation	Indirect operation with air pressure
At	Valve structure	Rubber sealant, poppet valve
Atmospheric pressure break valve	Valve type	Normally open
DICAN VAIVC	Lubrication	Not required
	Orifice	3.5mm or equivalent
		<u> </u>

Vacuum filter specifications

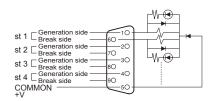
Descriptions	Vacuum filter
Element material	PVF (poly-vinyl formal)
Filtration	10μm
Element surface area	660mm ²
Replacement filter element model no.	VSZM-E

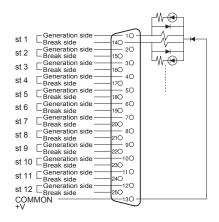
VSΥ

Electric circuit (solenoid valve)



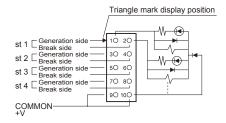
25 pin 9 pin



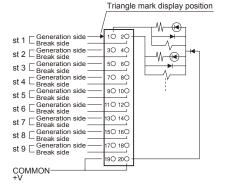


 Flat cable connector 10 pin

20 pin 26 pin



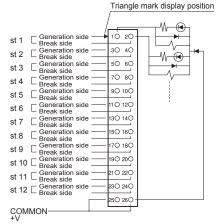
(Note) COMMON (+V) pins No. 9 and 10 are short-circuited internally



(Note) COMMON (+V) pins No. 19 and 20 are short-circuited internally.

Note 1: Generation side · · · Vacuum generation side coil

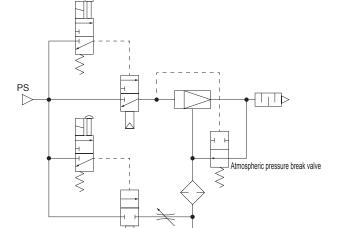
Note 2: Break side · · · Vacuum break side coil



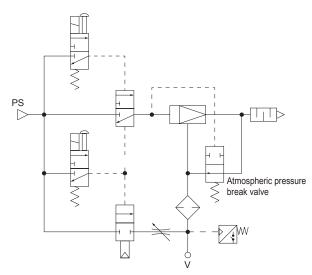
(Note) COMMON (+V) pins No. 25 and 26 are short-circuited internally

Circuit diagram

Normally closed type



Self hold type



(3)-(8)-(S)-(F)

Symbol

© Valve type Note 2

В

D

6

M5

СХ

to

12

■ 11mm pitch manifold dedicated vacuum ejector unit, ejector unit assembly

(VSZM)-(H)(07)**M5**

■ 11mm pitch manifold dedicated vacuum ejector unit, valve unit assembly

 (\mathbf{D})

 11mm pitch manifold dedicated vacuum ejector unit, manifold only 10 10 Number of manifold stations Vacuum port (V) Vacuum switch specifications Air supply port (PS)

20 Number of connector pin designation

Descriptions

Wiring specifications

High vacuum/medium flow type Medium vacuum/large flow rate type

High vacuum/small flow rate type

A Vacuum characteristics Note 1, 2, 3

Normally closed type

Self hold type

ø4 push-in joint

ø6 push-in joint

ø6 push-in joint

ø8 push-in joint

D Vacuum port (V) Note 2

M5 x 0.8

Air supply port (PS)

Solenoid valve voltage

24 VDC

12 stations

H Number of manifold stations Note 5 2 stations

Ejector unit assembly /alve unit assembly

•

•

Type

A Vacuum characteristics

B Nozzle diameter

For mixed specifications (Indicate details in specification sheet.) B Nozzle diameter Note 1, 2, 3 05 ø0.5 ø0.7 10 ø1.0 00 For mixed specifications (Indicate details in specification sheet.) •

For mixed specifications (Indicate details in specification sheet.)

For mixed joint (Indicate details in specification sheet.)

Valve type

A Note on model no. selection

Note 1: The A B "E05" and "L10" combinations cannot be selected.

Note 2: Indicate "Mixed manifold specifications" when selecting mixed specifications. Refer to page 162 for details.

Note 3: Only

"00" is selectable for

"Z". Only A "Z" is selectable for B "00".

Note 4: When **③** "20" and "26", **●** "D" can not be selected

When ("25", ("F" can not be selected. Note 5: The number of stations operated simultaneously differs with nozzle diameter and port size combination. Consult with CKD for details.

Exhaust port (EX)

10 ø10 push-in joint Exhaust port (EX) Atmospheric release with silencer ø6 push-in joint common exhaust ø8 push-in joint common exhaust 10

ø10 push-in joint common exhaust

Solenoid valve voltage

Model no.

· Filter element

VSZM-E

· Silencer element

VSZM-SE

Table 1

Table 1						
Number of	Number of connector pin designation					
Blank	For flat cable specifications					
	2 to 4 stations: 10 pins					
5 to 9 stations: 20 pins						
10 to 12 stations: 26 pins						
	For D sub-connector specifications					
	2 to 4 stations: 9 pins					
	5 to 12 stations: 25 pins					
20	20 pin flat cable connector (max.9 stations)					
26	26 pin flat cable connector (max.12 stations)					
25	25 pin D sub-connector (max.12 stations)					

Vacuul	Vacuum switch specifications Note 2							
Blank	Without vacuum switch	•	•					
DW	2-point NPN output with LED display	•	•					
DA	NPN output 1 point + analog output with LED display	•	•					
S	1 point NPN output without display	•	•					
V1	Analog output for negative pressure	•	•					
V2	Separate type LED display + analog output for negative pressure	•	•					
R1	Analog output for compound pressure	•	•					
R2	Separate type LED display + analog output for compound pressure	•	•					
Z	For mixed specifications (Indicate details in specification sheet.)	•						

Wiring specifications Note 4							
F	Flat cable connector						
D	D sub-connector						

Number of connector pin designation Note 4 Refer to Table 1 for number of connector pin designation

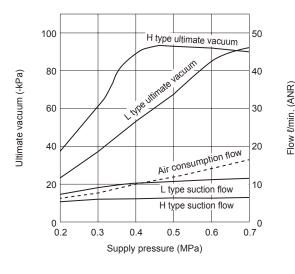
Flow Umin. (ANR)

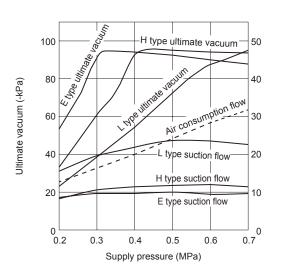
Vacuum characteristics

Supply pressure - ultimate vacuum, suction flow, consumed flow

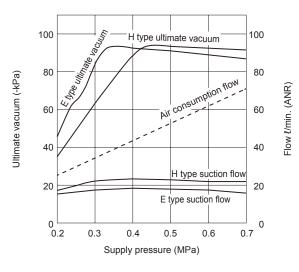
● VSZM-H05, VSZM-L05

VSZM-H07, VSZM-L07, VSZM-E07





● VSZM-H10, VSZM-E10



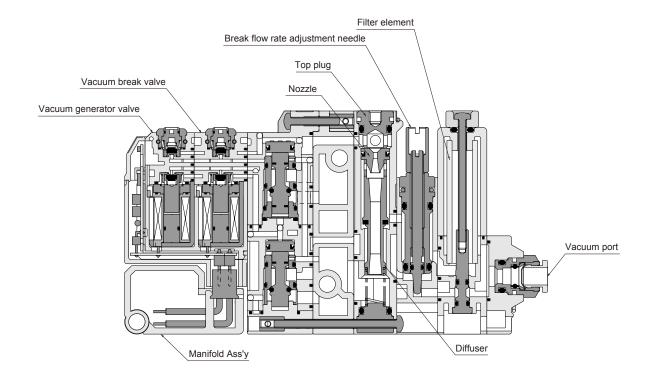
- 1. The supply pressure above applies at vacuum generation.
- 2. An abnormal popping may sound at the supply pressure (H type: 0.4 to 0.45 MPa, E type: 0.29 to 0.32 MPa) just before the ultimate vacuum peaks. This abnormal noise is because characteristics are unstable and increases with instability. This may adversely affect the sensor, etc. Reset supply pressure.
 - (e.g. 1. When the H vacuum ejector operates with a base pressure of 0.5 MPa, an abnormal noise sounds when supply pressure drops to 0.43 MPa due to a pressure drop. → Reset the supply pressure to 0.5 MPa when the vacuum ejector operates.)
- 3. Select piping and components using a sectional area 3 times larger than the nozzle diameter. Satisfactory vacuum cannot be attained if a sufficient air flow cannot be ensured.

(Popping occurs at the set pressure if the intake flow is insufficient, the ultimate vacuum cannot be attained, etc.)

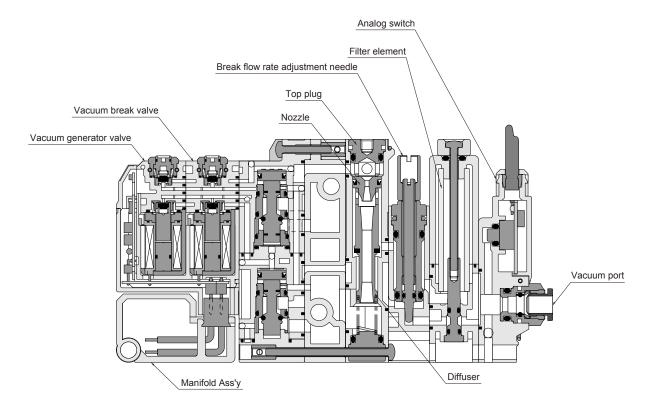
- (e.g. 2. An abnormal noise sounds even when using the H vacuum ejector at a working pressure of 0.5MPa. → The air flow is insufficient. (The air flow is restricted preceding the vacuum ejector due to piping resistance, etc., keeping satisfactory air flow from being attained. → Select piping components that provide the required effective section.)
- (e.g. 3. When using the vacuum ejector with a 1.0 mm nozzle diameter, cross-sectional area is 0.5^2 x π = 0.785 mm² x 3 = 2.35 mm². Select piping and devices that ensure an effective section of 2.3 mm² or more.



Without vacuum switch

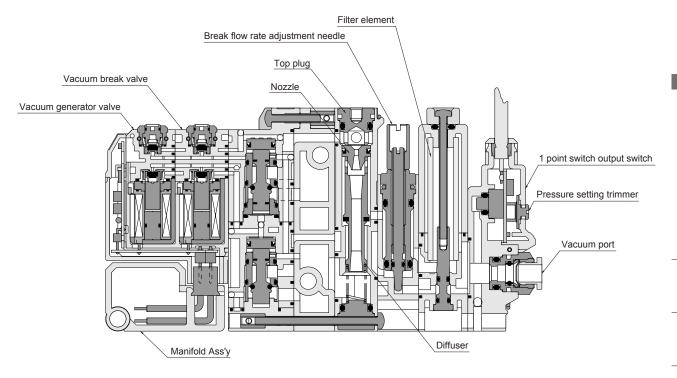


Vacuum switch with analog output

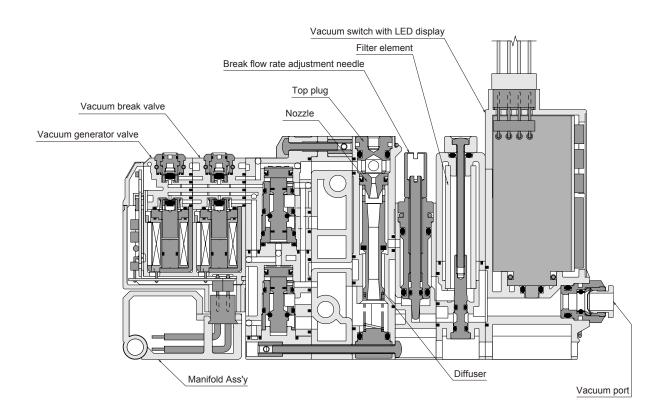


Internal structure drawing

Vacuum switch with 1 point switch output



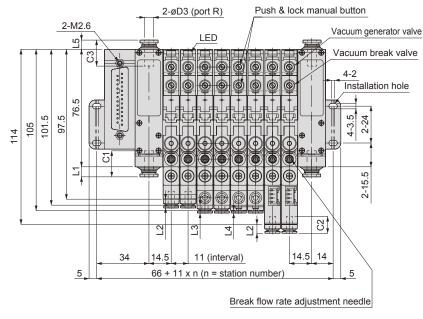
Vacuum switch with LED display

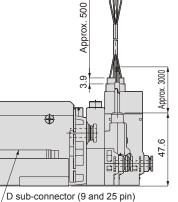


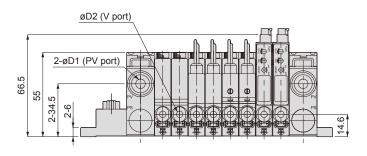
2-24.5

Dimensions (D sub-connector specifications)

Common exhaust type



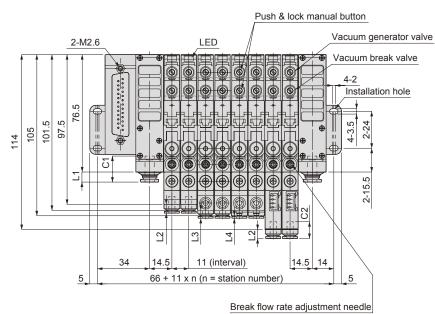


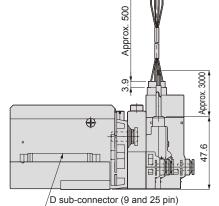


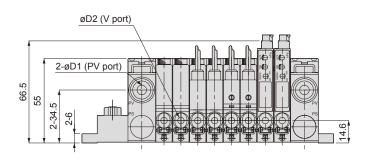
PV port øD1	C1	L1	V port øD2	C2	L2	L3	L4	Port R øD3	C3	L5
6	17	6.6	4	11.2	6.1	5.4	1.9	6	17	6.1
8	18.2	8.1	6	10	8.9	8.2	4.7	8	18.2	7.6
10	20.7	11.7	M5 (female thread)	-	4	3.3	-0.2	10	20.7	11.2

Dimensions (D sub-connector specifications)

Atmospheric release type







PV port øD1	C1	L1	V port øD2	C2	L2	L3	L4
6	17	6.6	4	11.2	6.1	5.4	1.9
8	18.2	8.1	6	10	8.9	8.2	4.7
10	20.7	11.7	M5 (female thread)	-	4	3.3	-0.2

Triangle mark

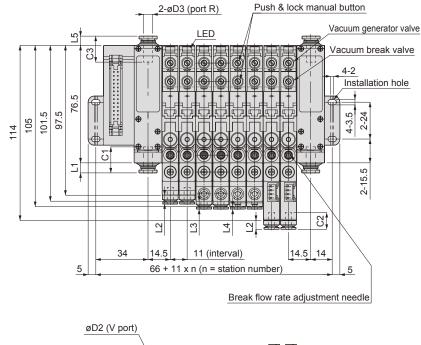
VSQ

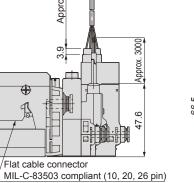
Dimensions (flat cable connector specifications)

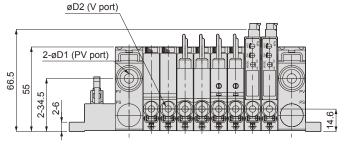
Approx. 500

Flat cable connector

Common exhaust type



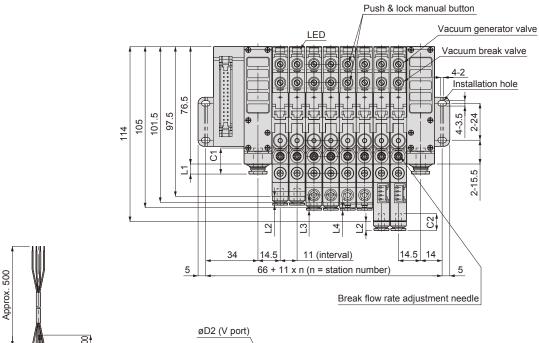


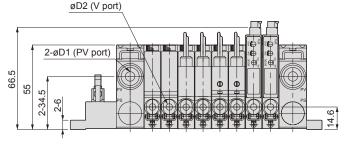


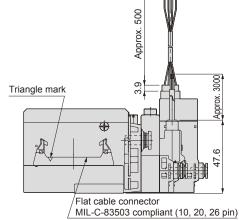
PV port øD1	C1	L1	V port øD2	C2	L2	L3	L4	Port R øD3	C3	L5
6	17	6.6	4	11.2	6.1	5.4	1.9	6	17	6.1
8	18.2	8.1	6	10	8.9	8.2	4.7	8	18.2	7.6
10	20.7	11.7	M5 (female thread)	-	4	3.3	-0.2	10	20.7	11.2

Dimensions (flat cable connector specifications)

Atmospheric release type







PV port øD1	C1	L1	V port øD2	C2	L2	L3	L4
6	17	6.6	4	11.2	6.1	5.4	1.9
8	18.2	8.1	6	10	8.9	8.2	4.7
10	20.7	11.7	M5 (female thread)	-	4	3.3	-0.2

Safety precautions

Refer to Intro 13 for general precautions of the pneumatic system components.

A

WARNING

- Check that leakage current is 1 mA or less when operating the valve. Malfunctions could result from the leakage current and cause accidents.
- When continuously energizing the pilot valve for a long time, heat generated from the coil could cause burns or adversely affect peripheral devices. Contact CKD when energizing the pilot valve for a long time.
- When using the self holding type (VSZ-D···), the switching valve (main valve) position is neutral when the pilot air supply is stopped (including when using for the first time after delivery). When restarting the pilot air supply, issue a signal to the pilot valve or accurately switch the valve manually.
- Stop the supplied air and release the residual pressure before attaching or removing the unit from the manifold.
- Do not use this product where there is excessive vibration or impact. The product could malfunction or break. (Keep vibration at an acceleration of 49m/s² or less.)
- When using the self holding type (VSZ-D···) in a vibrating application, install so that the vibration direction is at right angles to the switching valve (main valve).

A

CAUTION

- Do not apply strong tension or excessively bending to the valve or vacuum switch's leads. Wires or connectors may break.
- Compressed air contains large amounts of drainage (water, oxidized oil, tar, foreign matter, etc.) that may adversely affect performance. Dehumidify air with an after cooler or dryer and improve air quality.
- Do not use a lubricator.
- Rust, etc., in piping may result in operation faults. Install a 5 um or smaller filter preceding the supply port. Flush pipes before use and at an appropriate cycle.
- Avoid using this vacuum ejector in environments with corrosive or flammable gas. Do not use this unit for fluids.
- Before installing and uninstalling the cartridge joint or ejector's top plug, remove all matter on the seal, and accurately insert the set pin. Read Precautions for Use in this manual before starting.
- When using the manifold's silencer specifications, performance could drop or problems could occur if the element is clogged. Regularly service and inspect the element.
- Before installing each unit on the manifold, remove all matter on the seal, and securely fix with screws. Read Precautions for Use in this manual before starting.
- Check electrical circuit diagrams in this manual before wiring the D-sub connector and flat cable connector.
- When the manifold type is selected, vacuum performance could drop or problems could occur depending on working conditions. Read and understand Precautions of the Manifold in this manual before using.

Ejector system



Precautions for using the manifold

■ Increasing the number of manifold stations may adversely affect performance or cause problems due to the causes below. Consult with CKD for details.

The number of stations that ensure performance (number of stations operated simultaneously) is determined based on the nozzle size, vacuum characteristics, and manifold specifications, etc. Consult with CKD for details.

- 1. Drop in vacuum performance due to insufficient air supply.
 - Countermeasures -
 - 1) Check the air supply capacity, etc.
 - 2 Keep piping as short as possible.
 - 3 Increase joint size.
- 2. Drops in vacuum performance because of insufficient exhaust port capacity or interference of exhaust air with other stations

Cause: Performance drops when exhaust resistance increases because of an insufficient silencer or piping capacity.

- Countermeasures -
- ① Common piping (exhaust) specifications → Keep piping length thick and thin.
- 2 Avoid exhaust at walls.
- ③ Decrease the number of units operating simultaneously.

Methods not moving all units simultaneously will cause the ejector exhaust in the moving ejector to flow into the unit's vacuum port. This can cause problems with exhaust, so contact CKD.

VSY

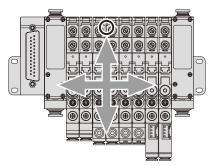
VSK VSKM VSG

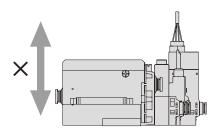
VSX VSXM

How to use

1. Installation

If the installing position vibrates, install so that the vibrating direction is at right angles to the switching valve.





2. Adjusting the vacuum break air flow rate

When the vacuum break air flow rate adjusting needle is turned right (CW), the flow rate will decrease, and when turned left (CCW), the flow rate will increase. After adjusting, securely tighten the lock nut with a tightening torque of 0.1 to 0.3 N·m.

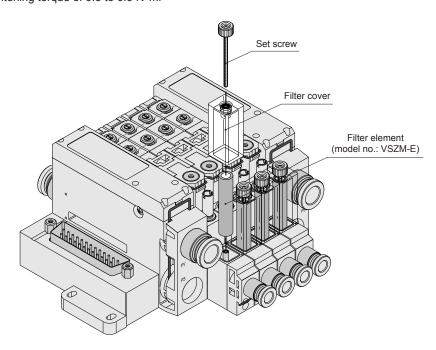
Left turn: Increases vacuum break air flow rate



Right turn: Decreases vacuum break air flow rate

3. Replacing the filter element

Remove the set screw, and replace the filter element. After replacing the element, confirm that the filter packing is attached, and securely fix with a tightening torque of 0.3 to 0.5 N·m.



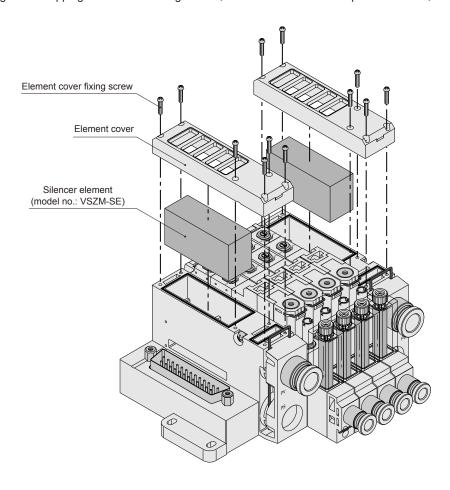
4. Replacing the silencer element

Replace the silencer element as follows.

- ① Remove the six element cover fixing screws.
- 2 Remove the element.

How to use

③ Insert the element, attach the element cover, and securely tighten with a tightening torque of 0.4 to 0.5 N⋅m. (Note) When using a resin tapping screw for the fixing screws, check the initial fit with a precision driver, and tighten completely.



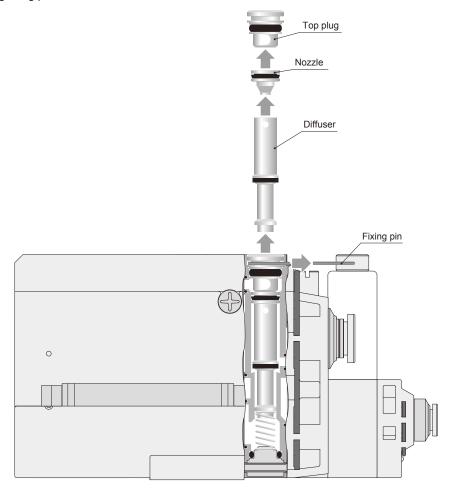
VSZM Series

VSQ

5. Replacing and cleaning the nozzle and diffuser

Replace and clean the nozzle and diffuser as follows.

- ① Using a flat-tip screwdriver, etc., pull out the pin fixing the top plug onto the ejector.
- 2 Pull out the top plug, nozzle, and diffuser.
- 3 Remove all matter on the inner side of the nozzle and diffuser and the seal with compressed air or by wiping it off. (Note) Do not scratch the inside of the nozzle and diffuser or the seal.
- ④ If required, apply grease on the nozzle's piston packing.
 - (Note 1) If grease at packing has splattered, apply a thin coat around the periphery of packing. Use grease that does not permeate the rubber or resin.
 - (Note 2) Note that grease causes dirt and lint to stick to packing.
- ⑤ Insert the diffuser, nozzle, and top plug in this order into the main unit.
- (6) Insert the top plug fixing pin.



6. Removing from and installing onto the manifold

[Removal]

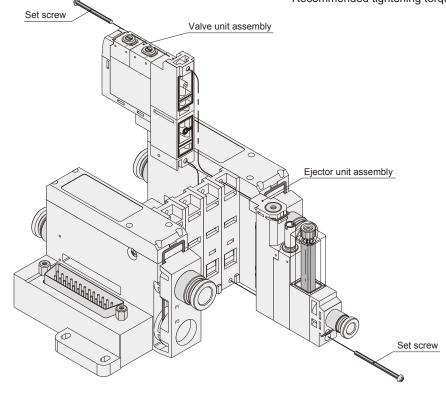
How to use

Remove units from the manifold as follows:

- 1) Stop the supply air, and release pressure in pipes.
- 2 Remove the two set screws with an appropriate tool.
- ③ Remove each unit from the manifold.

[Installation]

- ① Check that packing is attached, and that no foreign matter adheres.
- 2 Install each unit on the manifold.
- 3 Confirm that each unit is accurately positioned and set.
- ④ Tighten the two fixing screws with an appropriate tool. (Note) Gradually and alternately tighten the two screws. Recommended tightening torque: 0.4 to 0.5N⋅m

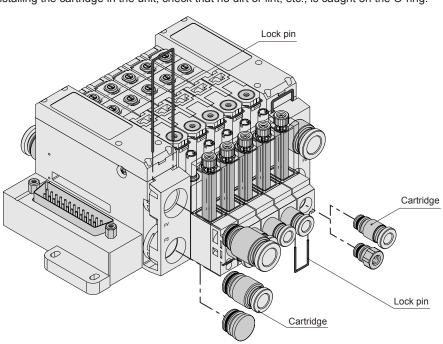


7. Replacing the cartridge joint

The cartridge joint and M5 female screw are replaced as follows.

- ① Pull out the set pin with a flat-tip screwdriver, etc.
- ② Pull the cartridge out in the connection direction.

Note: Before installing the cartridge in the unit, check that no dirt or lint, etc., is caught on the O-ring.



VSY

VSG

Preparing the VSZM mixed manifold specifications

Mixed manifold model No. (Example)

	A	B	G	O	(3	(3)	G	•	0	0	K
VSZM -	Z	00	Z -	CX	8	6 .	- 3 .	. 5	. 7 .	- F	26

Mixed manifold specifications (Example)

Vacuum ejector model no.	Layout position												Quantity
A B O D O	1	2	3	4	5	6	7	8	9	10	11	12	Quantity
VSZM- H 05 B - 4 - DW	0	0											2
VSZM- H 07 B - 6 - DA			0	0									2
VSZM- H 07 D - 6 -					0								1
VSZM-													
VSZM-													

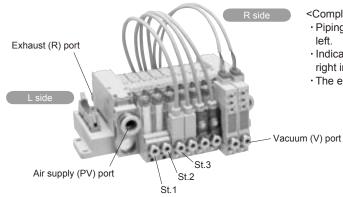
(Specifications when only output port size joints are mixed)

Mixed manifold model No. (Example)

	A	₿	Θ	o	ⅎ	(3)	G	(1)	0	•	K
VSZM -	Н	07	В -		8	5	- 3 -	- 5 -	DW -	· [F]	26

Mixed manifold specifications (Example)

Vacuum ejector model no.	Layout position										Quantity		
A B O D O	1	2	3	4	5	6	7	8	9	10	11	12	Quantity
VSZM- H 07 B - 6 - DW	0			0									2
VSZM- H 07 B - 4 - DW		0			0								2
VSZM- H 07 B - M5 - DW			0										1
VSZM-													
VSZM-													



<Completing the form>

- · Piping locations start from the vacuum port, and are set in order from the
- · Indicate the total number of designated product models required at the far right in the table.
- · The electronic connector assembly is fixed on the L side of the manifold.

VSQ

VSZM mix manifold specifications

0	Over with a	0-4- 5	N = 15	,	,	Issue / /
Contact	Quantity	Sets [Delivery	1		Customer name
Slip No.	Order	No.				Person in charge
						Order No

Mixed manifold model No.

	A	B	Θ	o	(3	(3	G	•	•	0	K
	,	,,	,	,	,	,,	,	,	,	,,	,
\/071	1	1 1	1		1 1	1 1		1	1		1 1
V/ C- / N/I	1	1 1	1		1 1	1 1		1	1 1		1 1
V-3/ IVI =	1	1 1			1 1	1 1					1 1
V OLIVI	1 1	1 1	1			1	1 1	1 1	1 1	1 1	1 1

A Vacuum characteristics Note 1, 2							
Н	High vacuum/medium flow type						
L	Medium vacuum/large flow rate type						
Е	High vacuum/small flow rate type						
Z	For mixed specifications (Indicate details in specification sheet.)						

B Nozzle di	iameter Note 1, 2
05	ø0.5
07	ø0.7
10	ø1.0
00	For mixed specifications (Indicate details in specification sheet.)

⊙ Valve type						
В	Normally closed type					
D	Self hold type					
Z	For mixed specifications (Indicate details in specification sheet.)					

① Vacuum port (V)							
4	ø4 push-in joint						
6	ø6 push-in joint						
M5	M5 x 0.8						
СХ	For mixed joint (Indicate details in specification sheet.)						

Air supp	⊜ Air supply port (PS)			
6	ø6 push-in joint			
8	ø8 push-in joint			
10	ø10 push-in joint			

Exhaust port (EX)				
S	Atmospheric release with silencer			
6	ø6 push-in joint common exhaust			
8	ø8 push-in joint common exhaust			
10	ø10 push-in joint common exhaust			

G Solenoid valve voltage									
3	24 VDC								
H Number of manifold stations									
2 to 12	2 stations to 12 stations								
Vacuum switch specifications									
Blank	Without vacuum switch								
DW	2-point output with LED display								
DA	1-point output + analog output with LED display								
S	1-point NPN output without display								
V1	Analog output for negative pressure								
R1	Analog output for compound	Analog output for compound pressure							
Z	For mixed specifications (Indicate details in specification sheet.)								
J Wiring s	Wiring specifications								
F	Flat cable connector								
D	D sub-connector								
(Number	of connector pin designation	on							
Blank	For flat cable connector spe	cifications							
	2 to 4 stations	10 pin							
	5 to 9 stations	20 pin							
	10 to 12 stations	26 pin							
	For D sub-connector specifications								
	2 to 4 stations 9 pin								
	5 to 12 stations 25 pin								

20 pin flat cable connector (max.9 stations)

25 pin D sub-connector (max.12 stations)

26 pin flat cable connector (max.12 stations)

▲ Note on model no. selection

20

26

25

Note 1: **(A)** E, **(B)** 05 and **(A)** L and **(B)** 10 combinations can not be selected.

Note 3: When **(A)** Z, only **(B)** 00 can be selected. For **(B)** 00. Only **(A)** Z can be selected.

Mixed manifold specification sheet

Vacuum ejector model no.		Layout position											
A B O D O	1	2	3	4	5	6	7	8	9	10	11	12	Quantity
VSZM-													
VSZM-													
VSZM-													
VSZM-													
VSZM-													