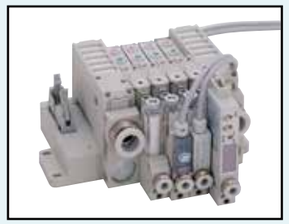


Ejector System/11 mm Pitch Manifold Vacuum Ejector Unit

VSZM Series

CE UKCA RoHS

Compact, lightweight manifold-dedicated vacuum ejector unit that significantly shortens vacuum break time (max. 12 stations)

Vacuum Characteristic Variations

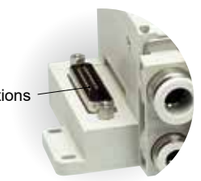
Vacuum Characteristics / Nozzle Diameter	Suction Flow Rate (L/min (ANR))			Air Consumption (L/min (ANR))			Ultimate Vacuum Pressure (-kPa)		
	H	L	E	H	L	E	H	L	E
0.5 mm	7	12		11.5			90.4	66.5	
0.7 mm	13	24	10	23		17	93.1	66.5	90.4
1.0 mm	24		20	46		34	93.1		90.4

*Rated supply pressure; H, L → 0.5 MPa, E → 0.35 MPa

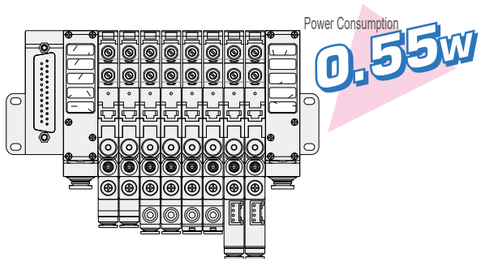
Vacuum generation valve selectable from Normally Closed type and Self-holding type

Centralized wiring for supply valve / breaking valve

Adoption of centralized wiring specification enables reduction of wiring work time.



Valve power consumption reduced to 0.55 W, achieving energy saving.



Piping standardized with Push-in fitting and female thread specifications Selection possible according to piping application

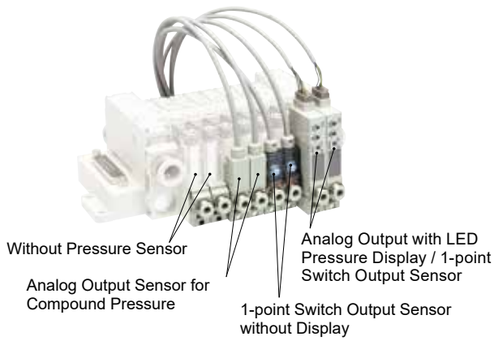
Various variations of vacuum pressure switches also available Compatible with a wide range of applications

● Analog output

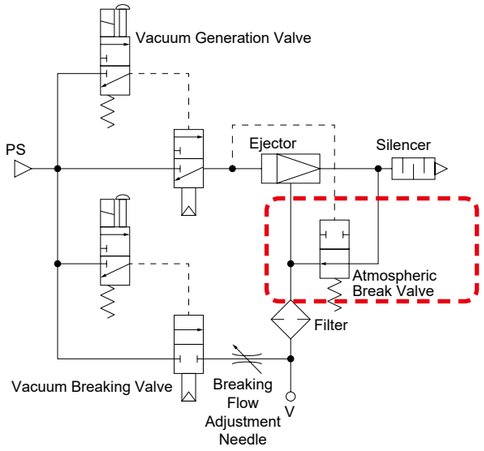
● No Display 1-point output

● 1-point output with digital display + analog output

● With digital display 2-point output

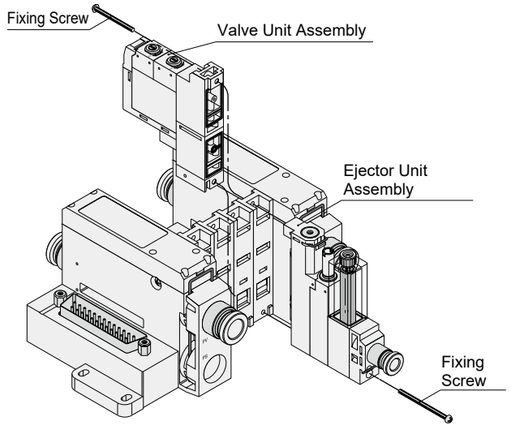


Installation of atmospheric break valve enables high flow rate atmospheric breaking, significantly shortening vacuum break time



Structure considering maintainability makes maintenance work easy

Since valves, filters, etc., are unitized, replacement is possible by removing only the necessary parts.

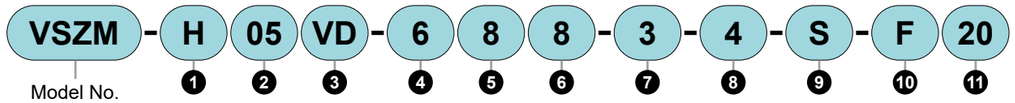


Compliant with Global Standards

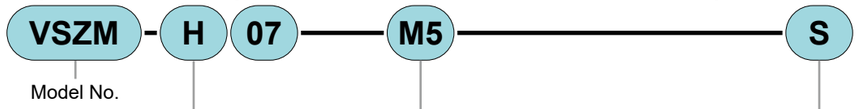
CE UKCA RoHS

Model No. Notation

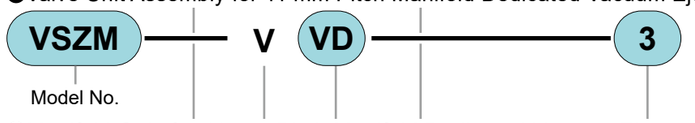
●11 mm Pitch Manifold Dedicated Vacuum Ejector Unit



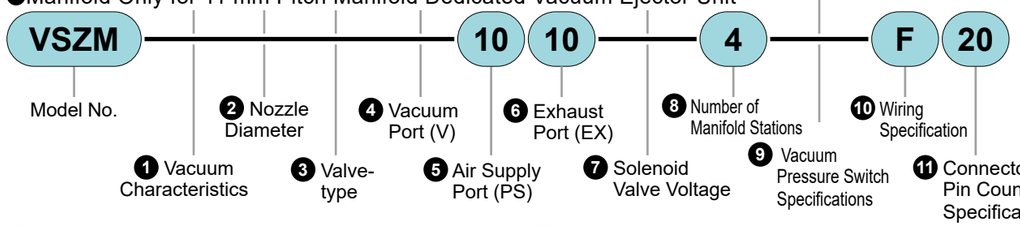
●Ejector Unit Assembly for 11 mm Pitch Manifold Dedicated Vacuum Ejector Unit



●Valve Unit Assembly for 11 mm Pitch Manifold Dedicated Vacuum Ejector Unit



●Manifold Only for 11 mm Pitch Manifold Dedicated Vacuum Ejector Unit



1 Vacuum Characteristics

Code	Content
H	High Vacuum/Medium Flow Type
L	Medium Vacuum/High Flow Type
E	High Vacuum/Low Flow Type
Z	For mixed specifications (Provide details in the specification sheet)

*1: The combinations ❶❷"E05" and "L10" are not possible.
*2: For mixed specifications, be sure to fill out the "Mixed Manifold Specification Sheet". For details, please refer to P. 312, 313.
*3: If ❶ is "Z", Nozzle Diameter is "00" only. If is "0", is ❶"Z" only.
*4: For Ejector Unit Assembly, ❶"Z" cannot be selected. For Manifold Only, or Valve Unit Assembly, Vacuum Characteristics cannot be selected.

2 Nozzle Diameter

Code	Content
05	ø0.5
07	ø0.7
10	ø1.0
00	For mixed specifications (Provide details in the specification sheet)

*1: The combinations ❶❷"E05" and "L10" are not possible.
*2: For mixed specifications, be sure to fill out the "Mixed Manifold Specification Sheet". For details, please refer to P. 312, 313.
*3: If ❶Vacuum Characteristics is "Z", ❷is "00" only. If is ❷"0", is ❶"Z" only.
*4: For ejector unit assembly, ❷"00" cannot be selected. For Manifold Only, or Valve Unit Assembly, Nozzle Diameter cannot be selected.

3 ValvE-type

Code	Content
B	Normally Closed Type
D	Self-holding Type
Z	For mixed specifications (Provide details in the specification sheet)

*1: For mixed specifications, be sure to fill out the "Mixed Manifold Specification Sheet". For details, please refer to P. 312, 313.
*2: For Valve Unit Assembly, ❸"Z" cannot be selected. For ejector unit assembly, or in the case of manifold only, the valve type cannot be selected.

4 Vacuum Port (V)

Code	Content
4	ø4 Push-in fitting
6	ø6 Push-in fitting
M5	M5×0.8
CX	For fitting mix(Provide details in the specification sheet)

*1: For mixed specifications, be sure to fill out the "Mixed Manifold Specification Sheet". For details, please refer to P. 312, 313.
*2: For Ejector Unit Assembly, ❹"CX" cannot be selected. For Valve Unit Assembly, or Manifold Only, Vacuum Port cannot be selected.

5 Air Supply Port (PS)

Code	Content
6	ø6 Push-in fitting
8	ø8 Push-in fitting
10	ø10 Push-in fitting

*: Ejector Unit Assembly, or Valve Unit Assembly cannot select Air Supply Port.

6 Exhaust Port (EX)

Code	Content
S	Atmospheric Release with Silencer
6	ø6 Push-in fitting centralized exhaust
8	ø8 Push-in fitting centralized exhaust
10	ø10 Push-in fitting centralized exhaust

*: Ejector Unit Assembly, or Valve Unit Assembly cannot select Exhaust Port.

In manifold types, exhaust air may flow around to non-operating ejectors and be output from the vacuum port.
If exhaust air flow-around affects usage, please consult us.

7 Solenoid Valve Voltage

Code	Content
3	24 VDC

*: For Ejector Unit Assembly, or Manifold Only, Solenoid Valve Voltage cannot be selected.

8 Number of Manifold Stations

Code	Content
2	2 stations
to	to
12	12 stations

*1: The number of stations that can be operated simultaneously varies depending on the combination of nozzle diameter and port size. Please contact us for details.
*2: For Ejector Unit Assembly, or Valve Unit Assembly, Number of Manifold Stations cannot be selected.

9 Vacuum Pressure Switch Specifications

Code	Content	
Blank	Without Vacuum Pressure Switch	
DW	NPN Output 2 points with Digital Display	
DA	NPN Output 1 point + Analog Output with Digital Display	
S	NPN Output 1 point without Display	
V1	Analog Output for Negative Pressure	
R1	Analog Output for Compound Pressure	
*2 Z	For Mixed Specifications (Provide details in the specification sheet)	

*1: For mixed specifications, be sure to fill out the "Mixed Manifold Specification Sheet". For details, please refer to P. 312, 313.
*2: For Ejector Unit Assembly, ❾"Z" cannot be selected. For valve unit assembly or manifold only, vacuum pressure switch specifications cannot be selected.

10 Wiring Specification

Code	Content	
F	Flat Cable Connector	
D	D-sub Connector *2	

*1: For ejector unit assembly or valve unit assembly, the wiring specification cannot be selected.
*2: If Connector Pin Count Specification is "20" or "26", "D" cannot be selected.

11 Connector Pin Count Specification

Code	Content
Blank	Connector with optimal pin count installed by our company
*4 20	20-pin Flat Cable Connector (max. 9 stations)
*5 26	26-pin Flat Cable Connector (max. 12 stations)
*6 25	25-pin D-sub Connector (max. 12 stations)

*1: For flat cable connector:

Number of Manifold Stations	2 to 4 stations	10-pin Flat Cable Connector
	5 to 9 stations	20-pin Flat Cable Connector
	10 to 12 stations	26-pin Flat Cable Connector

For D-sub connector:

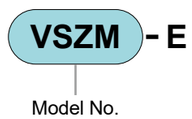
Number of Manifold Stations	2 to 4 stations	9-pin D-sub Connector (max. 9 stations)
	5 to 12 stations	25-pin D-sub Connector (max. 12 stations)

*2: For Ejector Unit Assembly and Valve Unit Assembly, the connector pin count cannot be selected.
*3: When ⓫ is '20' or '26', Wiring Specification ❿ 'D' cannot be selected
*4: For ❽ Number of Manifold Stations '5' to '9', please select 'Blank'.
*5: For ❽ Number of Manifold Stations '10' to '12', please select 'Blank'.
6: For ❽ Number of Manifold Stations '5' to '12', please select 'Blank'.

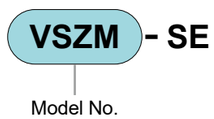
Maintenance Part Model No.

* For details on maintenance parts, please refer to P. 308.

● Filter Element



● Silencer Element



Specifications

Item	VSZM
Operating Fluid	Air
Operating Pressure MPa	0.3 to 0.7
Ambient Temperature/Fluid Temperature °C	5 to 50

Ejector Characteristics

Model No.	Nozzle Diameter (mm)	Rated Supply Pressure (MPa)	Ultimate Vacuum Pressure (-kPa)	Suction Flow Rate (L/min (ANR))	Air Consumption (L/min (ANR))
VSZM-H05	0.5	0.5	90.4	7	11.5
VSZM-L05			66.5	12	
VSZM-H07	0.7	0.5	93.1	13	23
VSZM-L07			66.5	(23) 24	
VSZM-E07		0.35	90.4	10	17
VSZM-H10	1.0	0.5	93.1	24	46
VSZM-E10		0.35	90.4	20	34

*1: Values in ( ) are for Vacuum Port: Values are for M5 × 0.8.

Valve Specifications

●Pilot Valve

Item	Vacuum Generation Valve	Vacuum Breaking Valve
ValvE-type and Operation Method	Direct Acting Pilot Valve	
Rated Voltage V	24 VDC	
Voltage Fluctuation Range V	DC 21.6 to DC 26.4	
Surge Suppressor	Varistor	
Power consumption W	0.55 (with LED)	
Operation Indicator Light	When coil is energized: Red LED lights up	When coil is energized: Yellow-green LED lights up
Manual Override	Locking push type	
Wiring Method	D-sub Connector, Flat Cable Connector	

●Switching valve

Item	Vacuum Generation Valve	Vacuum Breaking Valve
ValvE-type and Operation Method	Pilot Operated Pilot Valve	
Valve Type	Normally Closed, Self-holding	Normally Closed
Proof Pressure MPa	1.05	
Lubrication	Not required	
Effective Area mm² (Cv value)	4.5 (0.24)	3.5 (0.19)

Vacuum Pressure Switch Specifications

Item		With Digital Display		No Display	Separate Type	Analog
		2-point Switch Output	1-point Switch Output	1-point Switch Output	Pressure Indicator with Switch	
Current Consumption mA		40		20	50	20
Pressure Sensing Element		Diffused Semiconductor Pressure Sensor			-	Diffused Semiconductor Pressure Sensor
Working pressure kPa		-100 to 0			-	-100 to 0
Set Pressure		-99 to 0 kPa			-999 to 999 counts	-
Proof Pressure MPa		0.2			-	0.2
Storage Temperature °C		-20 to 80		-20 to 70		
Operating Temperature °C		0 to 50		-10 to 60	-10 to 50	-10 to 60
Operating Humidity		35 to 85% RH				
Power Supply Voltage V		DC 12 to 24 ±10% Ripple(P-P) ≤ 10%		DC 10.8 to 30 (incl. ripple)		
Protection Structure		Equivalent to IEC Standard IP40				
Number of Switch Output Points		2	1	1	2	-
Repeatability		±0.3% F.S. Max.(at Ta = 25°C)				-
Differential		Fixed	Variable	Fixed	Variable	-
Switch Output		NPN Transistor Open Collector Output				-
Analog Output	Output Voltage V	-	1 to 5	-	1 to 5	
	Zero Point Voltage V	-	1±0.1	-	1±0.1	
	Span Voltage V	-	4±0.1	-	4±0.1	
	Output Current mA	-	≤ 1	-	≤ 0.5	≤ 1
	Linearity/Hysteresis	-	±0.5% F.S. Max.	-	±0.5% F.S. Max.	
Display		-99 to 0 kPa (2-digit Red LED display)		-	3-digit Red LED display	-
Display Update Rate		Approx. 4 times/sec		-	Approx. 4 times/sec	-
Display Accuracy		±3% F.S. ±2 digit		-	±1% F.S.	-
Resolution		1 digit		-	1 digit	-
Switch Operation Indicator Light		SW1: Red LED lights up when output is ON			SW1: Green LED lights up when output is ON	-
		SW2: Green LED lights up when output is ON	-		SW2: Red LED lights up when output is ON	-

Vacuum Breaking Function

Item		Vacuum Break Valve
Break Air Flow Rate L/min (ANR)		0 to 50 at 0.5 MPa supply
Atmospheric Break Valve	Actuation Method	Indirect operation by pneumatic pressure
	Valve Structure	Elastomer seal, poppet valve
	Valve Type	Normally Open
	Lubrication	Not required
	Orifice Diameter mm	Equivalent to 3.5

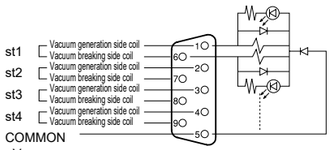
Vacuum Filter Specifications

Item	Vacuum Filter
Element Material	Polyvinyl formal
Filtration Rating μm	10
Filtration area mm²	660
Replacement Filter Element Model No.	VSZM-E

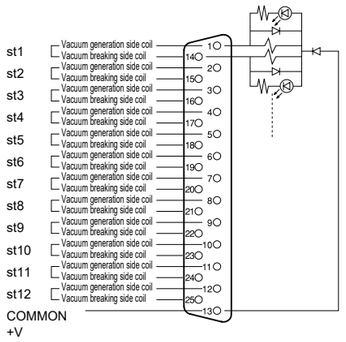
Electrical Circuit(Solenoid Valve)

●D-sub Connector

9-pin

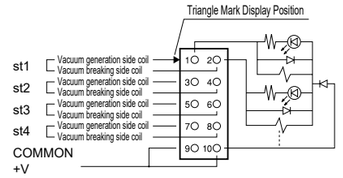


25-pin



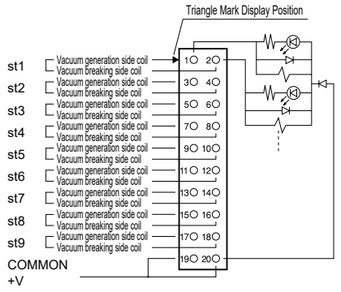
●Flat Cable Connector

10-pin



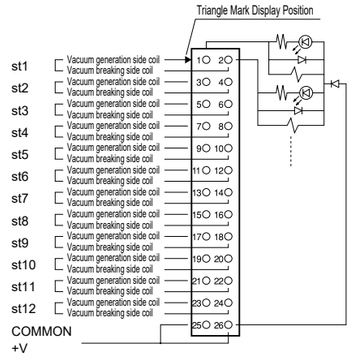
(Note) COMMON(+V) pins No. 9 and 10 are internally shorted.

20-pin



(Note) COMMON(+V) pins No. 19 and 20 are internally shorted.

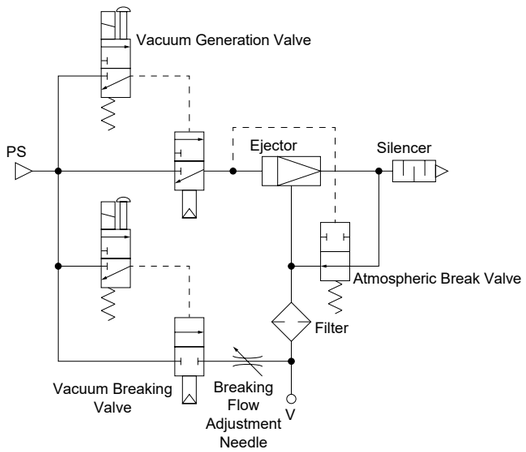
26-pin



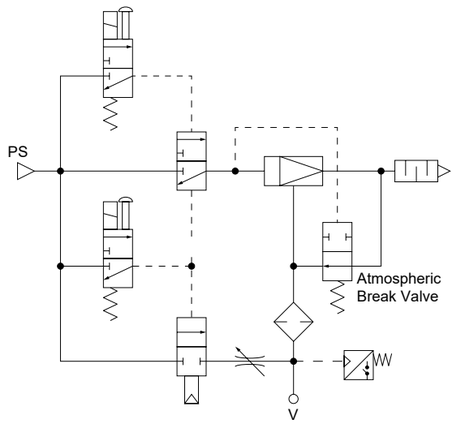
(Note) COMMON(+V) pins No. 25 and 26 are internally shorted.

Circuit Diagram

●Normally Closed Type



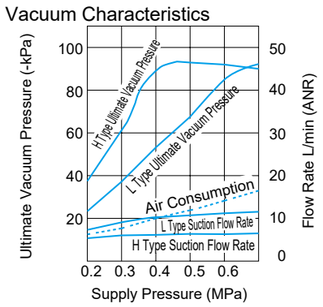
Self-holding Type

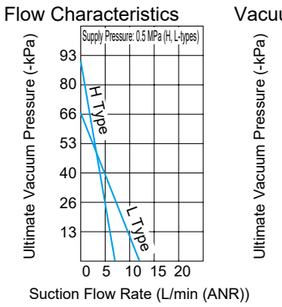


Vacuum Characteristics

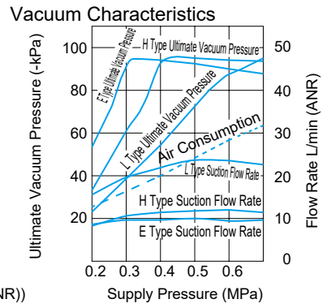
Supply Pressure - Ultimate Vacuum Pressure, Suction Flow Rate, Consumption Flow Rate

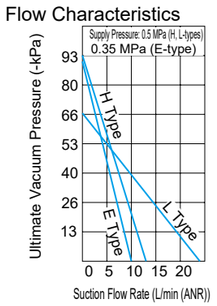
●VSZM-H05, VSZM-L05



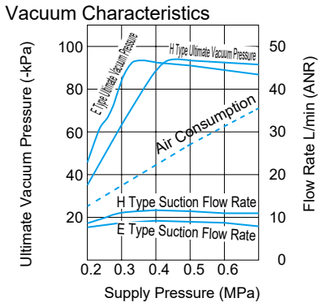


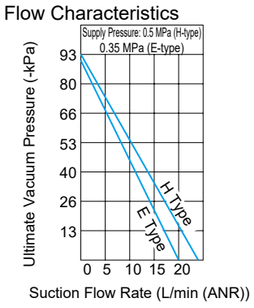
●VSZM-H07, VSZM-L07, VSZM-E07





●VSZM-H10, VSZM-E10

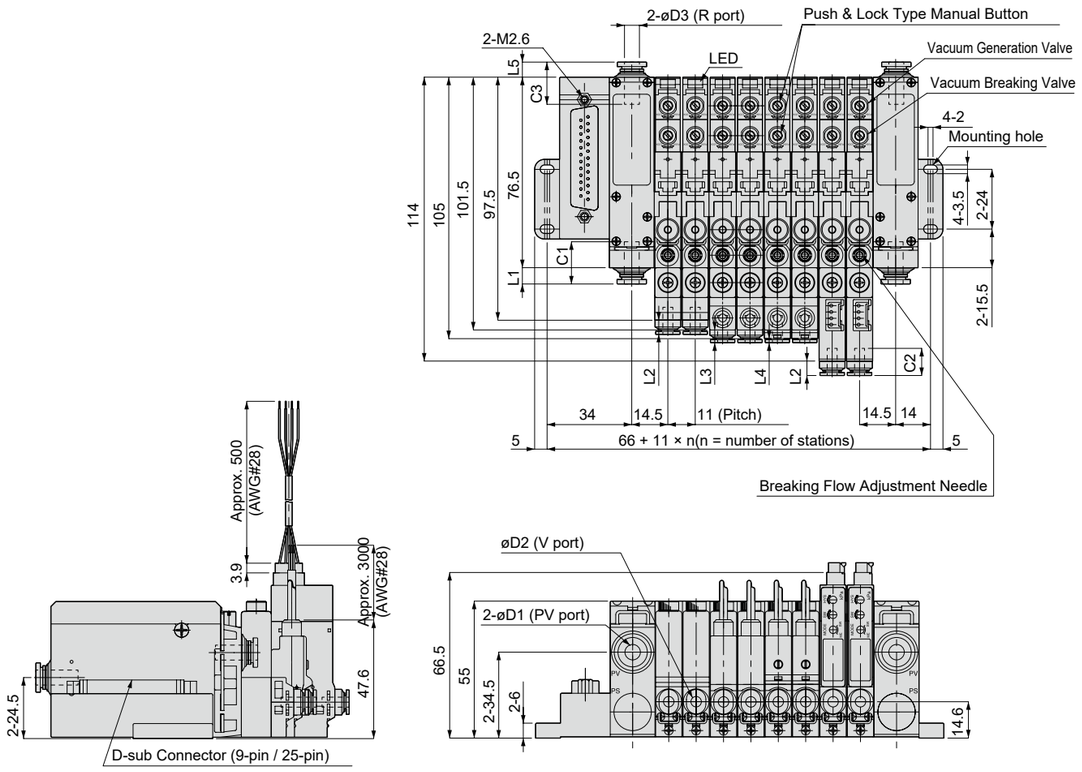




1. The supply pressure in the characteristics above is during vacuum generation.
2. Abnormal noise (gurgling sound) may occur at a supply pressure slightly below the peak ultimate vacuum pressure in the characteristics above. In this state with abnormal noise, characteristics are unstable and noise level increases. Also, it may affect sensors, etc., causing trouble, so reset the supply pressure.
   (Ex. 1: For an H type vacuum ejector with source pressure 0.5 MPa, during ejector operation, the supply pressure drops to 0.43 MPa due to pressure drop, causing abnormal noise.) → Reset the supply pressure during ejector operation to 0.5 MPa.)
3. Select piping or equipment using an effective cross-sectional area approximately 3 times the nozzle diameter cross-sectional area as a guideline. If sufficient supply air flow rate is not secured, satisfactory vacuum characteristics cannot be obtained.
   (Gurgling sound occurs even at the set pressure. (Insufficient suction flow rate, failure to reach ultimate vacuum level, etc.)
   (Ex. 2: For an H-type vacuum ejector, abnormal noise occurs even though the pressure during ejector operation is 0.5 MPa.) → Insufficient supply air flow rate. (Supply air flow rate is restricted before the vacuum ejector due to piping resistance, etc., preventing the supply air flow rate required for satisfactory characteristics from being obtained.) → Select a pipe components that can secure the required effective cross-sectional area.))
   (Ex. 3: For a vacuum ejector with a 1.0 mm nozzle diameter, cross-sectional area $0.5^2 \times \pi = 0.785\ mm^2 \times 3 = 2.35\ mm^2$. Therefore, select piping and equipment to secure an effective cross-sectional area of 2.3mm or more.)

Outline Dimension Drawing (D-sub Connector Specification)

●Common exhaust

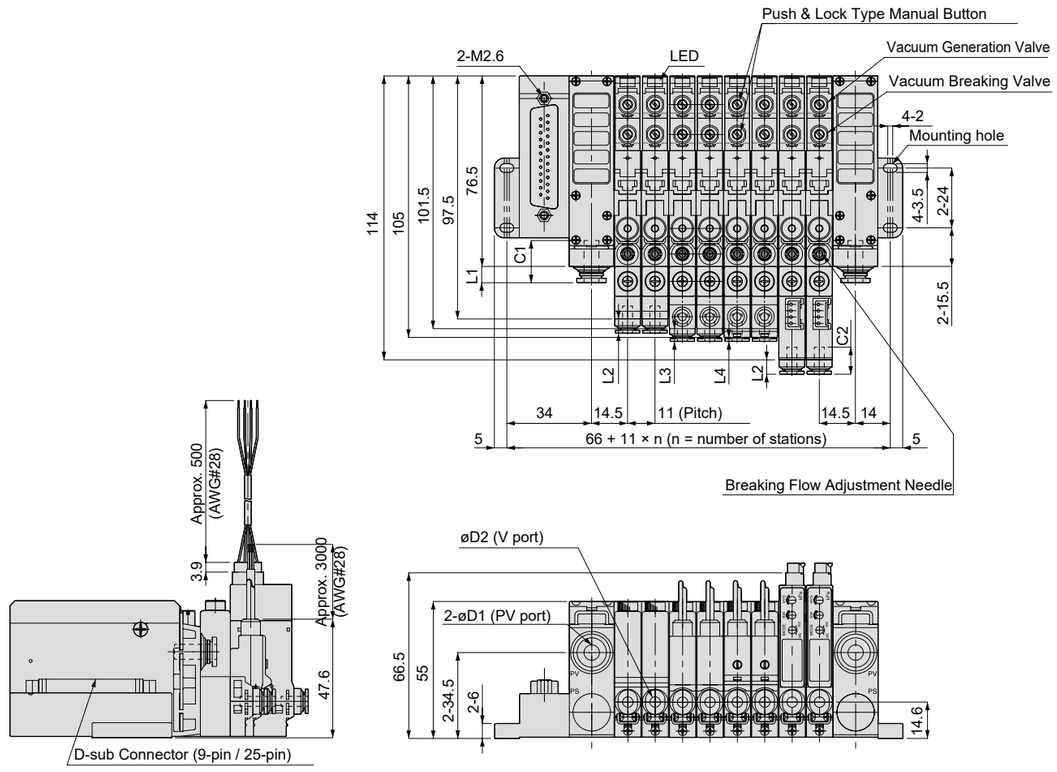


Unit: mm

PV Port øD1	C1	L1	V Port øD2	C2	L2	L3	L4	R Port 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

Outline Dimension Drawing (D-sub Connector Specification)

●Atmosphere release

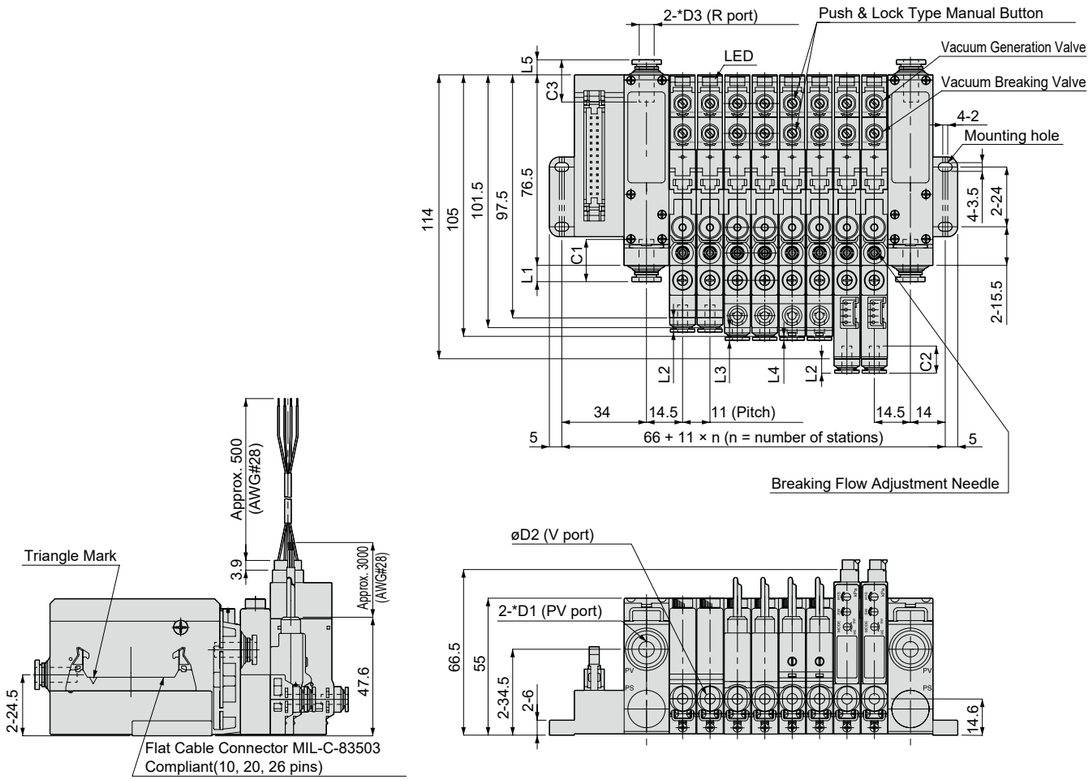


Unit: mm

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

Outline Dimension Drawing (Flat Cable Connector Specification)

●Common exhaust

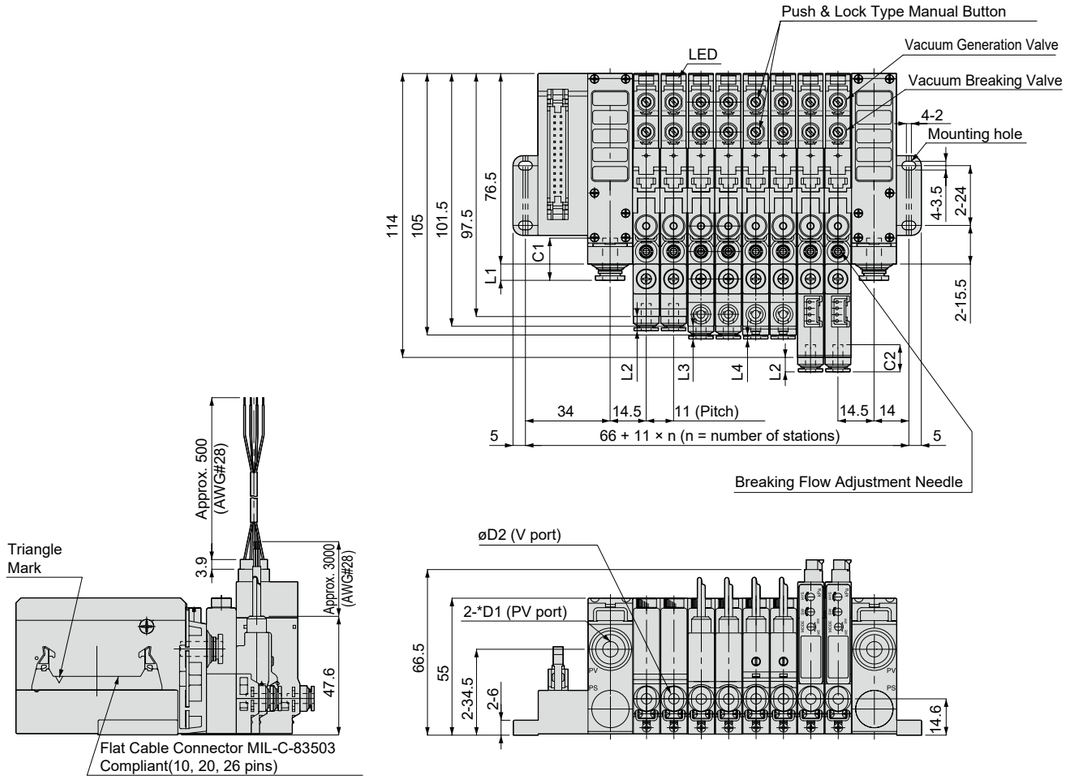


Unit: mm

PV Port øD1	C1	L1	V Port øD2	C2	L2	L3	L4	R Port 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

Outline Dimension Drawing (Flat Cable Connector Specification)

●Atmosphere release

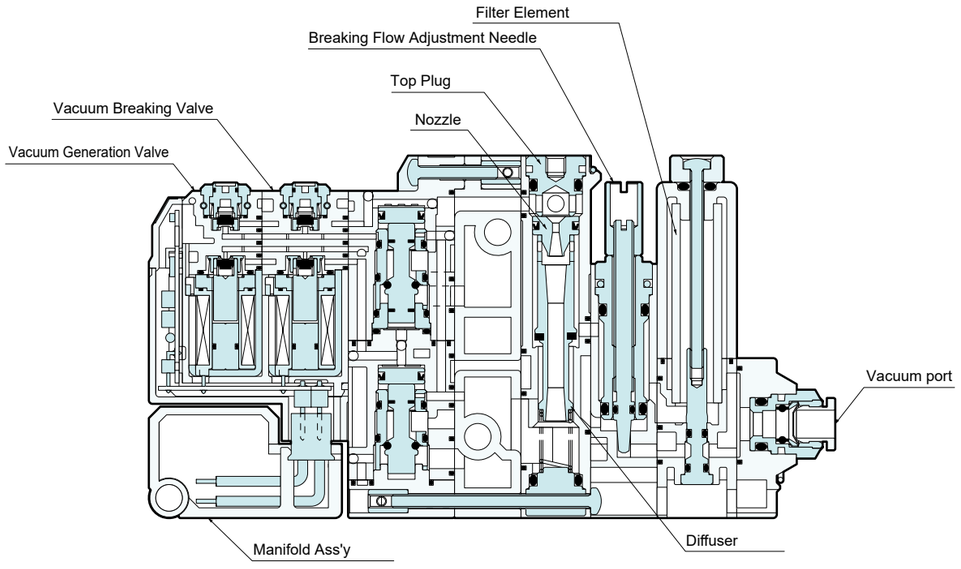


Unit: mm

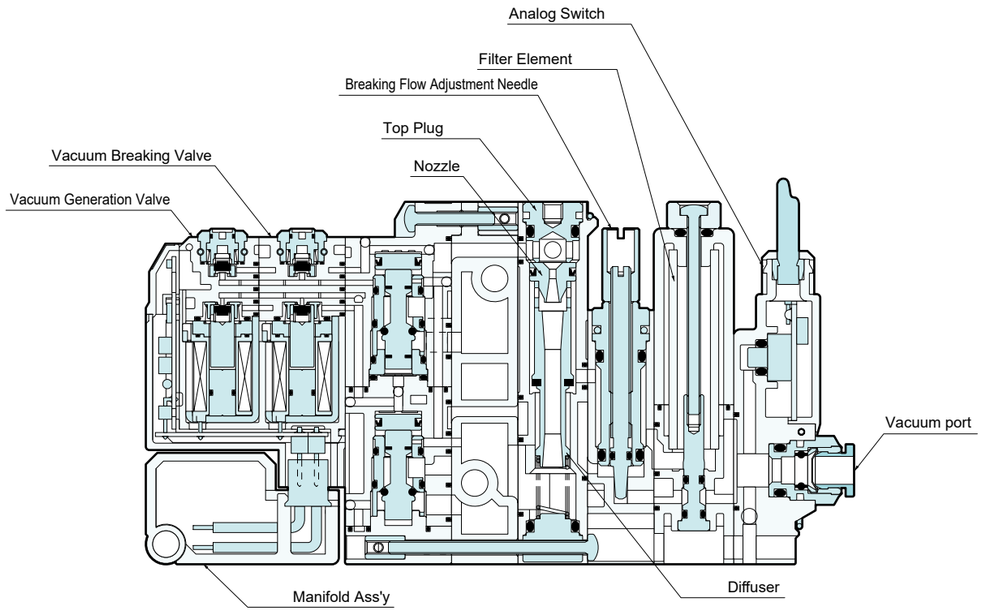
PV Port øD1	C1	L1	V Port øD2	C2	L2	L3	L4
6	17	6.6	4	11.2	6.1	5.4	1.9
8	18.2	8.1	6	10	8.9	8.2	4.7
10	20.7	11.7	M5 (Female thread)	-	4	3.3	-0.2

Internal Structure Diagram

●Without Vacuum Pressure Switch

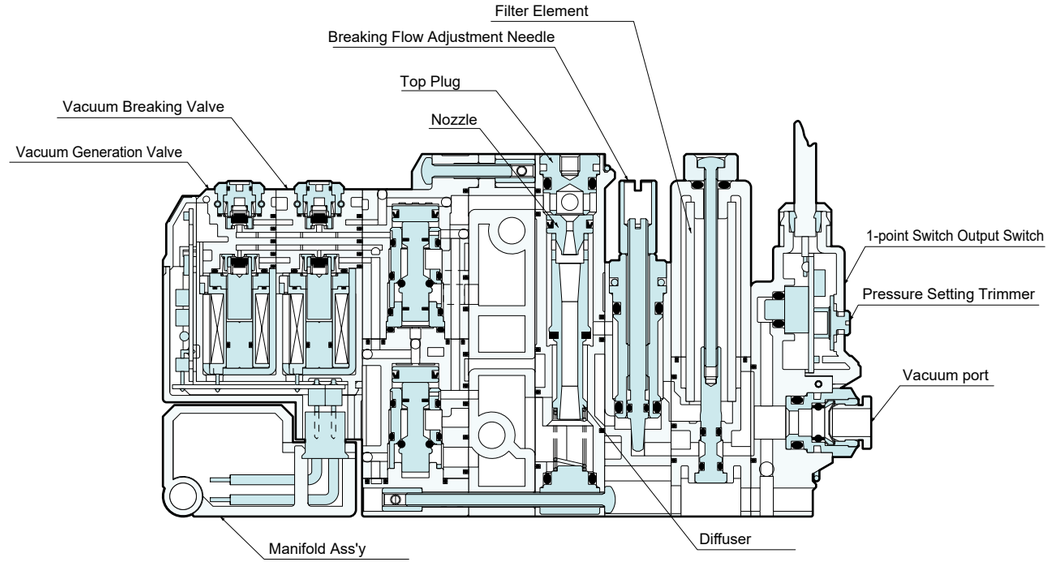


●Vacuum pressure switch with analog output

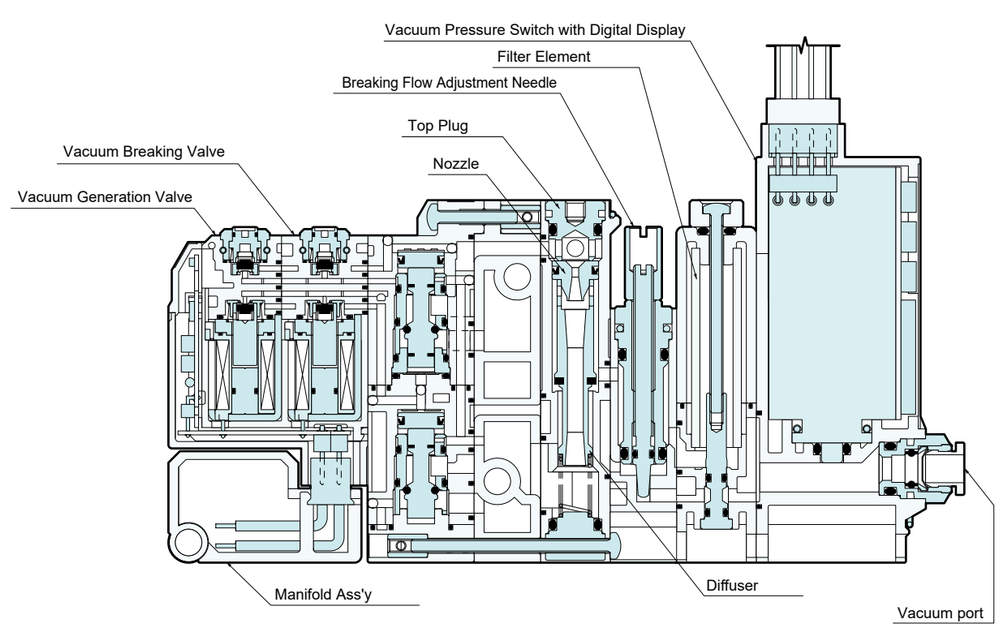


Internal Structure Diagram

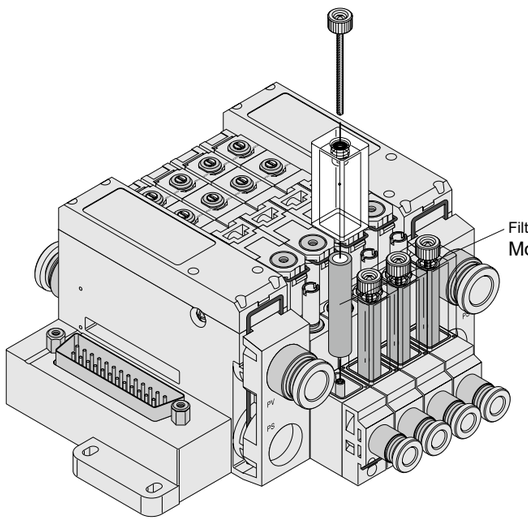
●Vacuum pressure switch with 1-point switch output



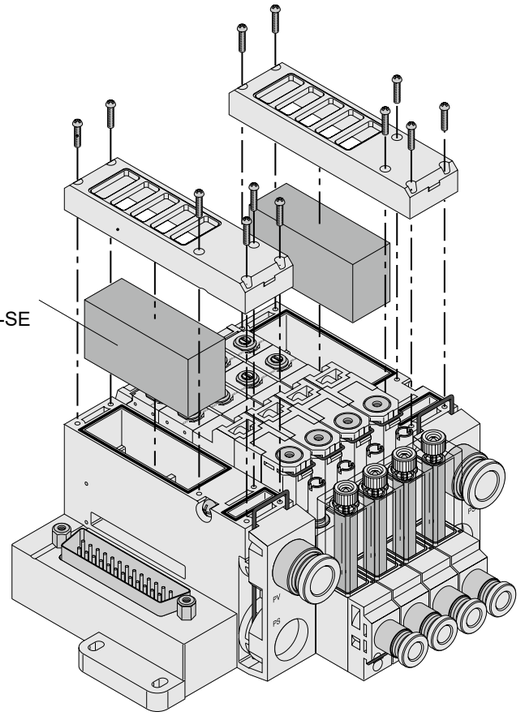
●Vacuum Pressure Switch with Digital Display



Maintenance Parts



Filter Element
Model No.: VSZM-E



Silencer Element
Model No.: VSZM-SE

MEMO

Vacuum Components
Ejector System
VSY
VSH
VSU
VSB
VSC
VSG
VSK/ VSKM
VSJ/ VSJM
VSN/ VSNM
VSX/ VSXM
VSQ
VSZM
Ending

To Use This Product Safely

Be sure to read this before use.
For general pneumatic components precautions, Intro Page 15 for details.

Individual Precautions: VSZM Series

Design / Selection

Warning

■For the self-holding type (VSZ-D...), the position of the switching valve (main valve) after stopping the pilot air supply is in a neutral state (including when first used after shipment). When re-supplying pilot air, be sure to apply a signal to the pilot valve or perform manual operation to reliably switch to the required state.

■When using the self-holding type (VSZ-D...) amidst vibration, install it so that the direction of vibration is perpendicular to the switching valve (main valve).

Caution

■When attaching/detaching the cartridge fitting and ejector top plug, remove any adhered matter from the seal part, then securely insert the stop pin. Perform this after carefully reading and understanding the precautions for use in the main text.

■For wiring D-sub connectors and flat cable connectors, carefully check the electrical circuit diagram in the handling precautions/instruction manual before wiring.

For precautions regarding mounting, installation, adjustment, operation, and maintenance, please refer to the CKD Equipment Product Site(https: //www.ckd.co.jp/kiki/en/) → 'model No.' →Instruction Manual.

Precautions for Manifold Use

■As the number of manifold stations increases, satisfactory performance may not be obtained or trouble may occur due to the following reasons. Please consult your nearest sales office.

There is a limit to the number of stations for which performance can be ensured(number of simultaneously operable stations) depending on nozzle size, vacuum characteristics, manifold specifications, etc. Please inquire at your nearest sales office.

1. Degradation of vacuum performance due to insufficient supply air
   - Countermeasures -
   ①Check supply air capacity, etc.
   ②Keep piping as short as possible.
   ③Use larger fitting sizes.
2. Degradation of vacuum performance due to insufficient exhaust port capacity, or interference of exhaust air with other stations
   Cause: Cause: Insufficient capacity of silencer or piping leads to large exhaust resistance and performance degradation.
   - Countermeasures -
   ①Centralized piping (exhaust) specification → Use thicker piping and make it as short as possible.
   ②Avoid locations where the exhaust section faces a wall.
   ③Reduce the number of simultaneously operating units.

For manifold type vacuum ejectors, when operating and non-operating ejectors coexist, exhaust air during vacuum generation may flow around to non-operating ejectors and be output from the vacuum port. This can cause problems, such as blowing away lightweight workpieces, so do not use under conditions where this could be an issue.

How to Create VSZM Mixed Manifold Specification Sheet

●Mix manifold model No.(example)

❶	❷	❸	❹	❺	❻	❼	❽	❾	❿	⓫
VSZM- Z	00	Z	- CX	8	6	- 3	- 5	- Z	- F	26

●Mix manifold specifications sheet (example)

Vacuum Ejector Model No. ❶ ❷ ❸ ❹ ❾	Arrangement Position 1	2	3	4	5	6	7	8	9	10	11	12	Quantity
VSZM- H 05 B - 4 - DW	○	○											2
VSZM- H 07 B - 6 - DA			○	○									2
VSZM- H 07 D - 6 -					○								1
VSZM- - - - - -													
VSZM- - - - - -													

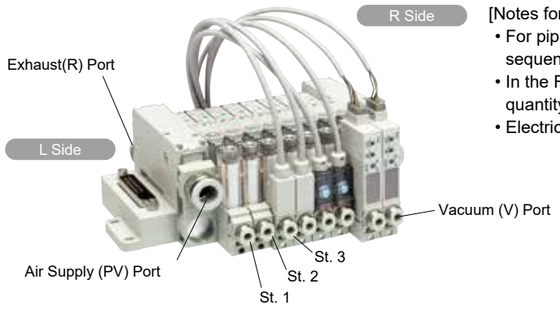
[For Fitting Mix Specification with Output Port Size Only]

●Mix manifold model No.(example)

❶	❷	❸	❹	❺	❻	❼	❽	❾	❿	⓫
VSZM- H	07	B	- CX	8	5	- 3	- 5	- DW	- F	26

●Mix manifold specifications sheet (example)

Vacuum Ejector Model No. ❶ ❷ ❸ ❹ ❾	Arrangement Position 1	2	3	4	5	6	7	8	9	10	11	12	Quantity
VSZM- H 07 B - 6 - DW	○			○									2
VSZM- H 07 B - 4 - DW		○			○								2
VSZM- H 07 B - M5 - DW			○										1
VSZM- - - - - -													
VSZM- - - - - -													



[Notes for Filling Out]
- For piping position, place the vacuum port at the front and install sequentially from the left.
- In the Required Quantity column at the right end of the table, enter the total quantity of the specified product model No.s.
- Electrical connector assembly is fixed on the L side of the manifold.

VSZM Mixed Manifold Specification Sheet

Contact Person | Quantity Set | Delivery Date (Month/Day) | Date of Issue

Company

Voucher No. | Order Received No. | Attn:

Order No.

●Mix manifold model No.

❶	❷	❸	❹	❺	❻	❼	❽	❾	❿	⓫
VSZM-			-			-	-	-	-	

Vacuum Characteristics *1, 2	
H	High Vacuum/Medium Flow Type
L	Medium Vacuum/High Flow Type
E	High Vacuum/Low Flow Type
Z	For mixed specifications (Provide details in the specification sheet)

Nozzle Diameter *1, 2	
05	ø0.5
07	ø0.7
10	ø1.0
00	For mixed specifications (Provide details in the specification sheet)

Valve Type	
B	Normally Closed Type
D	Self-holding Type
Z	For mixed specifications (Provide details in the specification sheet)

❹ Vacuum Port (V)	
4	ø4 Push-in fitting
6	ø6 Push-in fitting
M5	M5×0.8
CX	For fitting mix(Provide details in the specification sheet)

❺ Air Supply Port (PS)	
6	ø6 Push-in fitting
8	ø8 Push-in fitting
10	ø10 Push-in fitting

❻ Exhaust Port (EX)	
S	Atmospheric Release with Silencer
6	ø6 Push-in fitting centralized exhaust
8	ø8 Push-in fitting centralized exhaust
10	ø10 Push-in fitting centralized exhaust

❼ Solenoid Valve Voltage	
3	24 VDC

Number of Manifold Stations	
2 to 12	2 stations to 12 stations

❾ Vacuum Pressure Switch Specifications	
Blank	Without Vacuum Pressure Switch
DW	2-point Output with Digital Display
DA	1-point Output + Analog Output with Digital Display
S	NPN Output 1 point without Display
V1	Analog Output for Negative Pressure
R1	Analog Output for Compound Pressure
Z	For mixed specifications (Provide details in the specification sheet)

❿ Wiring Specification	
F	Flat Cable Connector
D	D-sub Connector

⓫ Connector Pin Count Specification	
Blank	For Flat Cable Connector Specification
	2 to 4 stations 10-pin
	5 to 9 stations 20-pin
	10 to 12 stations 26-pin
	For D-sub Connector Specification
	2 to 4 stations 9-pin
	5 to 12 stations 25-pin
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)

Notes for model No. Selection

*1: The combinations of ❶ 'E' and ❷ '05', and ❶ 'L' and ❷ '10' cannot be selected.
*2: When ❶ is 'Z', only ❷ '00' can be selected. When ❷ is '00', only ❶ 'Z' can be selected.

●Mix manifold specifications sheet

Vacuum Ejector Model No. ❶ ❷ ❸ ❹ ❾	Arrangement Position 1	2	3	4	5	6	7	8	9	10	11	12	Quantity
VSZM- - - - - -													
VSZM- - - - - -													
VSZM- - - - - -													
VSZM- - - - - -													
VSZM- - - - - -													