

Vacuum Generator Complex type VJ

20 mm wide complex type ejector with a pressure control valve for blow-off air (stand-alone type and manifold type)

⚠ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

VJ (1)	H (2)	07 (3)	B (4)	-	06 (5)	06 (6)	08 (7)	-	D24 (8)	L (9)	-	(10)	(11)	-	W (12)	(13)
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(1) Vacuum Generator Complex type VJ

(2) Vacuum characteristics

Code	H	L	E	K
Charact.	High-vacuum type (Rated supply pressure: 0.5 MPa)	Large-flow type (Rated supply pressure: 0.5 MPa)	High-vacuum at Low air supply pressure type (Rated supply pressure: 0.35 MPa)	Mixed configurations on a manifold (Fill out Specification Order Form.)

* Please secure supply pressure of 0.5 MPa when H or L type and E type are mounted on a manifold together. Vacuum performance indicated in the spec. can not be obtained by applying 0.35 MPa to H or L type unit.

(3) Nozzle bore

Code	Nozzle bore (mm)	H type			L type			E type		
		Vacuum level (kPa)	Suction flow (ℓ/min [ANR])	Air consumption (ℓ/min [ANR])	Vacuum level (kPa)	Suction flow (ℓ/min [ANR])	Air consumption (ℓ/min [ANR])	Vacuum level (kPa)	Suction flow (ℓ/min [ANR])	Air consumption (ℓ/min [ANR])
05	0.5	-90.4	7 [7] <7>	11.5	-66.5	12 [12] <12>	11.5	—	—	—
07	0.7	-93.1	13 [13] <13>	23	-66.5	24 [26] <26>	23	-90.4	10.5 [10.5] <10.5>	17
10	1.0	-93.1	27 [27] <27>	46	-66.5	34 [40] <40>	46	-90.4	21 [21] <21>	34
12	1.2	-93.1	32 [38] <38>	70	—	—	—	-90.4	24 [27] <27>	47
00	Combination of different nozzle type per mounting unit on a manifold (Fill out Specification Order Form.)									

*1. Values are when rated pressure is applied. (H and L type: 0.5 MPa, E type: 0.35 MPa.)

*2. Suction flow values on the left represent those of vacuum port dia. 4mm, those in [] are of vacuum port dia. of 6mm, and those in < > are of vacuum port dia. of 8 mm.

*3. The values in the table are representative values. Suction flow can vary by vacuum port dia. and tube length.

(4) Suction solenoid valve type

Code	A	B	C	K
Valve unit	Double-piloted (Self-holding function)	Normally closed type (N.C.)	Normally open type (N.O.)	Different valve configurations on a manifold (Fill out Specification Order Form)

(5) Vacuum port size (V)

Code	04	06	08	00
Tube O.D. (mm)	ø4	ø6	ø8	Different fitting size per station on a manifold (Fill out Specification Order Form)

(6) Air supply port size (PS)

Code	04	06	08	10
Tube O.D. (mm)	ø4 (*1)	ø6	ø8 (*2)	ø10 (*2)

*1. Stand-alone type only

*2. Manifold type only

(7) Exhaust port (EX)

	Open to air (Silencer vent)	Tube exhaust (Push-in fitting)	
Code	S	08	10
Tube O.D. (mm)	—	ø8	ø10 (*)

* Manifold type only

(8) Solenoid valve voltage

Code	D24	A100
Voltage	24 VDC	100 VAC

(9) Wire lead-out direction

Code	S	L	K
Direction	Side	Top	Mixed specifications on a manifold (Fill out Specification Order Form)

(10) No. of stations (Code entry for Manifold type only)

Code	02	03	04	05	06	07	08	09	10
No. of St.	2	3	4	5	6	7	8	9	10

(11) Lead-out direction of air-supply & exhaust ports (Code entry for Manifold type only)

Code	A	B
Direction	Vacuum port side	Wiring side

(12) Pressure sensor

Code	Type
No code	Without pressure sensor
W	2 switch outputs
A	1 switch output and 1 analog output
K	Mixed specifications on a manifold (Fill out Specification Order Form.)

(13) -S3 spec. (Metal option)

Code	No code	-S3(*)
Metal material	Standard	No copper-based metallic materials used in flow paths.
Seal rubber material	Standard spec.	HNBR or FKM
Release-ring color	Black	Dark blue

*1. -S3 specification is only for tube exhaust type

*2. -S3 is not corresponding to 100 VAC type.

*3. -S3 spec. is not available for electronic components and electric wires.

Order Example

①. Stand-alone type

VJ H 05 A - 04 06 S - D24 L - W
(2) (3) (4) (5) (6) (7) (8) (9) (12)

(2) Vacuum characteristics: **H**→High-vacuum type

(3) Nozzle bore: **05**→ø0.5 mm

(4) Suction solenoid valve type:

A→Double-piloted type (Self-holding function)

(5) Vacuum port: **04**→ø 4 mm Push-in fitting

(6) Air supply port: **06**→ø 6 mm Push-in fitting

(7) Exhaust port: **S**→Open to air (Silencer vent)

(8) Solenoid valve voltage: **D24**→24 VDC Specifications

(9) Wire lead-out direction: **L**→Top

(12) Pressure sensor: **W**→2 switch outputs

②. Manifold type

VJ H 05 A - 04 10 10 - D24 L - 04 A - W
(2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)

(2) Vacuum characteristics: **H**→High-vacuum type

(3) Nozzle bore: **05**→ø0.5mm

(4) Suction solenoid valve type:

A→Double-piloted type (Self-holding function)

(5) Vacuum port: **04**→ø 4mm Push-in fitting

(6) Air supply port: **10**→ø 10mm Push-in fitting

(7) Exhaust port: **10**→ø 10mm Push-in fitting

(8) Solenoid valve voltage: **D24**→24 VDC Specifications

(9) Wire lead-out direction: **L**→Top

(10) No. of stations: **04**→4 stations

(11) Port lead-out direction: **A**→Vacuum port side

(12) Pressure sensor : **W**→2 switch outputs

③. Manifold type

(Different spec. of any mounting unit on a manifold)

VJ K 00 K - 00 10 10 - D24 L - 05 A - K
(2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)

(2) Vacuum characteristics: **K**→ St.1, St.2, St.3: H type

St.4: E type

St.5: H type

(3) Nozzle bore: **00**→ St.1, St.2, St.3 : ø0.7 mm

St.4: ø1.0 mm

St.5: ø1.2 mm

(4) Suction solenoid valve type:

K→ St.1, St.2, St.3: Double-piloted type (Self-holding function)

St.4, St.5: Normally closed type (N.C.)

(5) Vacuum port: **00**→St. 1, St. 2, St. 3: ø6 mm Push-in fitting

St. 4, St. 5: ø8 mm Push-in fitting

(6) Air supply port: **10**→ø 10 mm Push-in fitting

St. 1, St. 2, St. 3: Dia. 6 mm Push-in fitting

(7) Exhaust port: **10**→ø 10 mm Push-in fitting

(8) Solenoid valve voltage: **D24**→24 VDC Specifications

(9) Wire lead-out direction: **L**→Top

(10) No. of stations: **05**→5 stations

(11) Port lead-out direction: **A**→Vacuum port side

(12) Pressure sensor: **K**→St.1, St.2, St.3: 2 switch outputs

St.4: Without pressure sensor

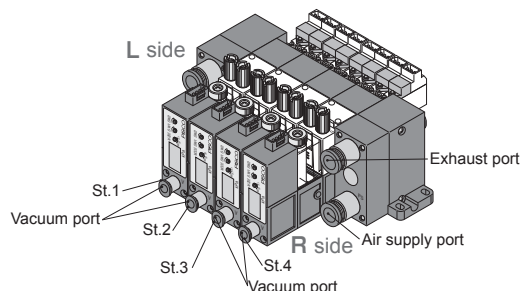
St.5: 1 switch output and 1 analog output

■ Specification order form example (Example of the above ③)

	Type	Vacuum charact.	Nozzle bore	Valve type	Vacuum port	Air supply port	Exhaust port	Solenoid valve voltage	Wire lead-out direction	No. of stations	Port Lead-out direction	Pressure sensor	-S3 Metal option
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Manifold model code	VJ	K	00	K	00	10	10	D24	L	05	A	K	
Mounting unit model code	L side	St.1	H	07	A	06						W	
		St.2	St.1										
		St.3	St.1										
		St.4	E	10	B	08							
		St.5	H	12	B	08						A	
	Station No. ↑ ↓	St.6											
		St.7											
		St.8											
		St.9											
		St.10											
	R side	St.10											

* If the manifold mounting units for St. 1, St. 2, and St. 3 are the same spec. as the above order form example, fill in the uppermost line of St. 1 only, and enter "St. 1" for St. 2 and St. 3 on (2) Vacuum charact. column.

Manifold Type (reference)



* Station No. is counted as St.1, St.2, ...St.10 from L side when the vacuum port is facing the front as shown in the figure.

Vacuum Generator Complex type VJ

Vacuum Generator VJ Series Manifold type Specification Order Form

Name _____

To: NIHON PISCO CO., Ltd. _____

Distributor address _____ TEL _____

Delivery address _____ TEL _____

Customer name and address _____ TEL _____

Requested EX-W PISCO Date: _____ Order quantity: _____ pcs.

	Type (1)	Vacuum charact. (2)	Nozzle bore (3)	Valve type (4)	Vacuum port (5)	Air supply port (6)	Exhaust port (7)	Solenoid valve voltage (8)	Wire lead-out direction (9)	No. of stations (10)	Port Lead-out direction (11)	Pressure sensor (12)	-S3 Metal option (13)
Manifold model code	VJ				—			—		—		—	
Mounting unit model code	L side	St.1			—			—		—		—	
		St.2			—			—		—		—	
	↑	St.3			—			—		—		—	
		St.4			—			—		—		—	
		St.5			—			—		—		—	
		St.6			—			—		—		—	
		St.7			—			—		—		—	
	↓	St.8			—			—		—		—	
		St.9			—			—		—		—	
	R side	St.10			—			—		—		—	

*1. Refer to the example in the previous page to fill in the form.

*2. Make photocopies of this page and fill in.

*3. When the combination of mounting unit spec. is different, a new Specification Order Form is required.

Characteristics

Pressure control function is added to the conventional flow control function for blow-off air.

Blowing away of work-pieces can be prevented.

Relief function, which releases excess pressure, is incorporated, and shorter blow-off time is achieved.

Compact vacuum system is achieved.

3 different supply valve types are available.

Double-piloted type is suitable for special applications where continuous vacuum generation is required for a long time and contributes to energy savings.

Pressure sensor with LED display. Good visibility.

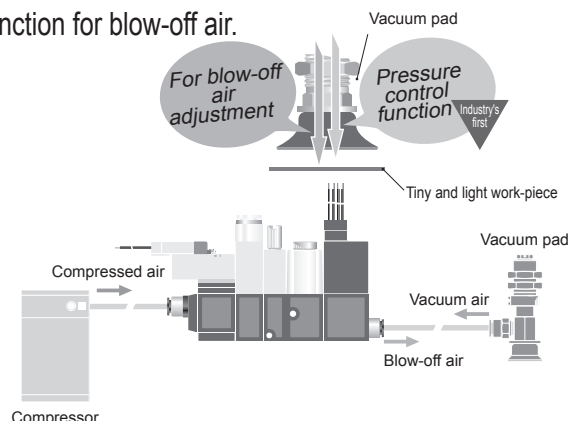
2 output types are available. 2 switch outputs type and 1 switch output and 1 analog output type. Connector wires for easy wiring.

4 standard nozzle bore sizes: 0.5 mm, 0.7 mm, 1.0 mm and 1.2 mm.

-S3 spec. (Metal option)

No copper-based metallic materials used in flow paths.

Seal rubber material is HNBR or FKM, both of which have good ozone resistance.



Specifications

Fluid medium	Air (JIS B 8392 - 1: Compliant with [Class 1.2.1 to 2.4.3])	
Operating press. range	0.3 to 0.7 MPa	
Operating temp. range	5 to 50°C (No freezing)	
Operating humid. range	35 to 85% RH (No dew condensation)	
Vibration resist. / Shock resist.	50 m/s ² max / 150 m/s ² max	
Protective structure	IEC standard IP 40 equiv.	
Lubrication	Not required	
Proof pressure	Air supply circuit	1.05 MPa
	Vac. circuit	0.2 MPa

* Proof pressure is the level of pressure at which the product would not be damaged. It does not mean the pressure where the product works normally.

Solenoid valve specifications

Rated voltage	24 VDC ±10%	100 VAC ±10%
Power consumption	1.2 W (with LED)	1.5 VA (with LED)
Surge protection	Varistor	Bridge diode
Operation indicator	Current application: Red LED ON	
Manual override	Push button (non-lock)	

Suction main valve specifications

Operation type	Indirect operation by pilot valve			
Valve type	Normally closed	Normally open	Double-piloted*1	
Response time	OFF→ON	24 VDC:	24 VDC:	24 VDC:
		10 msec [15 msec]	15 msec [20 msec]	10 msec [15 msec]
		100 VAC:	100 VAC:	100 VAC:
	ON→OFF	13 msec [18 msec]	18 msec [23 msec]	13 msec [18 msec]
		24 VDC:	24 VDC:	24 VDC:
		30 msec [35 msec]	20 msec [25 msec]	15 msec [20 msec]
		100 VAC:	100 VAC:	100 VAC:
		33 msec [38 msec]	23 msec [28 msec]	18 msec [23 msec]

*1. Excitation time of the solenoid must be 50 msec or more.

*2. The response time at supply air: 0.5 MPa with rated voltage (100%).

*3. Figures in [] are of "-S3" spec. type.

Blow-off main valve specifications

Operation type	Indirect operation by pilot valve	
Valve type	Normally closed	
Response time	OFF→ON	24 VDC: 8 msec [13 msec]
		100 VAC: 11 msec [16 msec]
	ON→OFF	24 VDC: 18 msec [23 msec]
		100 VAC: 21 msec [26 msec]

*1. The response time at supply air: 0.5 MPa with rated voltage (100%).

*2. Figures in [] are of "-S3" spec. type.

Vacuum filter specifications

Element material	PVFM (Polyvinyl formal)
Filtering accuracy(*)	5 μm
Filter area	1,130 mm ²

* Based on PISCO measuring condition.

Blow-off function

Blow-off air rate	0 to 50 l/min [ANR] (Supply pressure: 0.5 MPa)
Blow-off pressure setting range	-25 to 25 kPa

* Blow-off air rate varies according to the vacuum port dia. and tube length (piping resistance and others) on vacuum side.

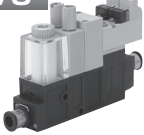
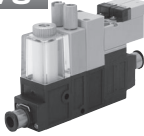
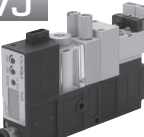
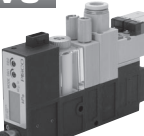
Specifications of Pressure sensor with LED display

Specifications	-W (2 switch outputs with LED display)	-A (1 switch output & 1 analog output with LED display)
Current consumption	40 mA	
Pressure detection	Diffused metaloxide semiconductive pressure switch	
Operating press. range	-100 to 0 kPa	
Pressure setting range	-99 to 0 kPa	
Proof pressure	0.2 MPa	
Power requirement	12 to 24 VDC ±10% Ripple (P-P) 10% max.	
No. of pressure setting	2	1
Operating accuracy	±3% F.S. max (Standard temp. at 25°C)	
Hysteresis	Fixed (2% F.S. max.)	Variable (about 0 -15% F.S. max.)
Switch output	NPN open collector output: 30 V 80 mA max. Residual voltage 0.8 V max.	
Analog output	Output voltage	1 to 5 V
	Zero-point voltage	1 ±0.1 V
	Span voltage	4 ±0.1 V
	Output current	1 mA max. (Load resistance min. 5 kΩ)
	LIN / HYS	±0.5% F.S. max (Standard temp. at 25°C)
Response	About 2 m-sec or less	
Indication	-99 to 0 kPa (2-digit red LED display)	
Display frequency	About 4 times/sec	
Indication accuracy	±3% F.S. ±2 digit max	
Sensor resolution	1 digit	
Operation indicator	SW 1: Red LED turns on when pressure is above setting SW 2: Green LED turns on when pressure is above setting	Red LED turns on when pressure is above setting

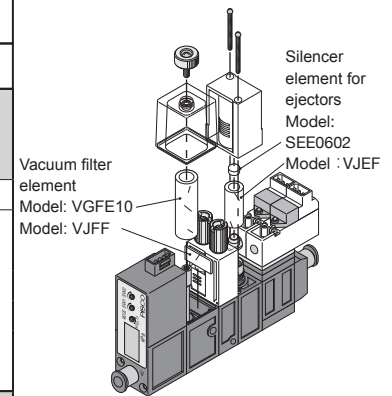
* Allowable range of the variation of "Zero point voltage", "Span voltage" and "Pressure setting value" caused by repeated voltage application is ± 3% F.S.

Vacuum Generator Complex type VJ

RoHS2 (2011/65/EU+EU2015/863) compliant

Stand-alone type			
Suction solenoid valve, Blow-off solenoid valve, Filter			
Silencer vent without Pressure sensor		Tube exhaust with Pressure sensor	
Type	Model code	Type	Model code
Wire lead-out direction :Top VJ 	VJ234-56S-8L	Wire lead-out direction :Top VJ 	VJ234-5608-8L13
Type	Model code	Type	Model code
Wire lead-out direction :Side VJ 	VJ234-56S-8S	Wire lead-out direction :Side VJ 	VJ234-5608-8S13
Silencer vent with Pressure sensor		Tube exhaust with Pressure sensor	
Type	Model code	Type	Model code
Wire lead-out direction :Top VJ 	VJ234-56S-8L-12	Wire lead-out direction :Top VJ 	VJ234-5608-8L-1213
Type	Model code	Type	Model code
Wire lead-out direction :Side VJ 	VJ234-56S-8S-12	Wire lead-out direction :Side VJ 	VJ234-5608-8S-1213

Replacement element

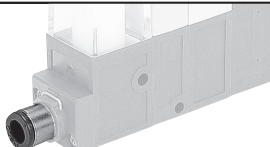
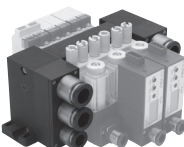
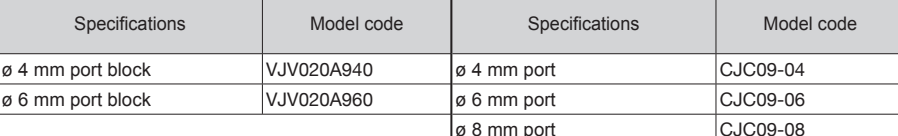


Silencer element for ejectors

Silencer element
Model code
VJEF
SEE0602

Vacuum filter element

Filter element
Model code
VGFE10
VJFF

Manifold type		Replacement of air supply port block		Replacement of vacuum port cartridge	
	No. of stations				
	2 stations				
	3 stations				
	4 stations				
	5 stations				
	6 stations				
	7 stations				
	8 stations				
	9 stations				
	10 stations				
		Specifications	Model code	Specifications	Model code
		ø 4 mm port block	VJV020A940	ø 4 mm port	CJC09-04
		ø 6 mm port block	VJV020A960	ø 6 mm port	CJC09-06
				ø 8 mm port	CJC09-08

Notes

*1. Please select each code referring to the example of model designation. [2]: Code of vacuum characteristics, [3]: Nozzle dia. code, [4]: Suction solenoid valve type code, [5]: Vacuum port size code, [6]: Air supply port size code, [8]: Solenoid valve type code, [12]: Pressure sensor code.

CAD data is available at PISCO website.

Packaging specifications
1 pc. /bag
10 pcs /bag: Replacement element

Options
[13] : -S3 ⇒ -S3 spec. (Metal option)

Weight List

(1) Stand-alone unit

Equipment	Model code	Weight (g)	Remark
Silencer vent, with sensor	VJ□□□-□□S-□□-□	165	Vacuum port: ø4, ø6
	VJ□□□-□□S-□□-□	171	Vacuum port: ø8
Silencer vent, without sensor	VJ□□□-□□S-□□	156	Vacuum port: ø4, ø6
	VJ□□□-8□S-□□	163	Vacuum port: ø8
Tube exhaust, with sensor	VJ□□□-□□8-□□-□	169	Vacuum port: ø4, ø6
	VJ□□□-8□8-□□-□	176	Vacuum port: ø8
Tube exhaust, without sensor	VJ□□□-□□8-□□	161	Vacuum port: ø4, ø6
	VJ□□□-8□8-□□	167	Vacuum port: ø8

(2) Manifold intermediate block

Equipment	Weight (g)	Remark
Manifold intermediate block	19	Per station

(3) Manifold side block

Equipment	Weight (g)	Remark
Silencer vent	118	No. of cartridges used: 2 pcs. (PS port) PV and EX ports are plugged
Tube exhaust	112	No. of cartridges used: 4 pcs. (PS, EX ports) PV port is plugged

(4) Cartridge (Intake/Exhaust port)

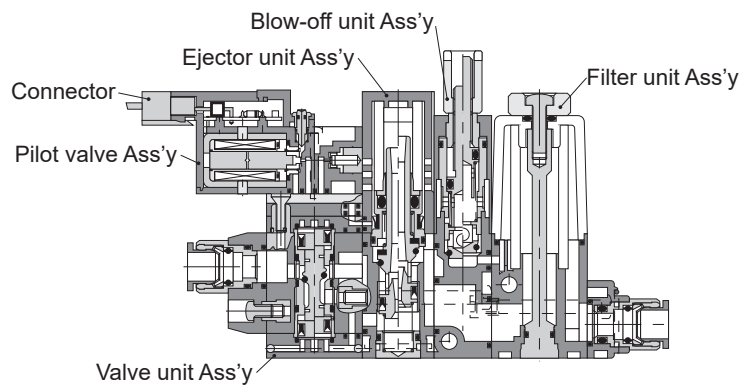
Model code	Weight (g)	Remark
CJC14-06	12	For ø6 mm
CJC14-08	10	For ø8 mm
CJC14-10	13	For ø10 mm
CJCP14-06	3.6	For ø6 mm (-S3 spec.)
CJCP14-08	4.8	For ø8 mm (-S3 spec.)
CJCP14-10	7.4	For ø10 mm (-S3 spec.)

■ Use the following formula to calculate the weight of Vacuum Generator VJ.

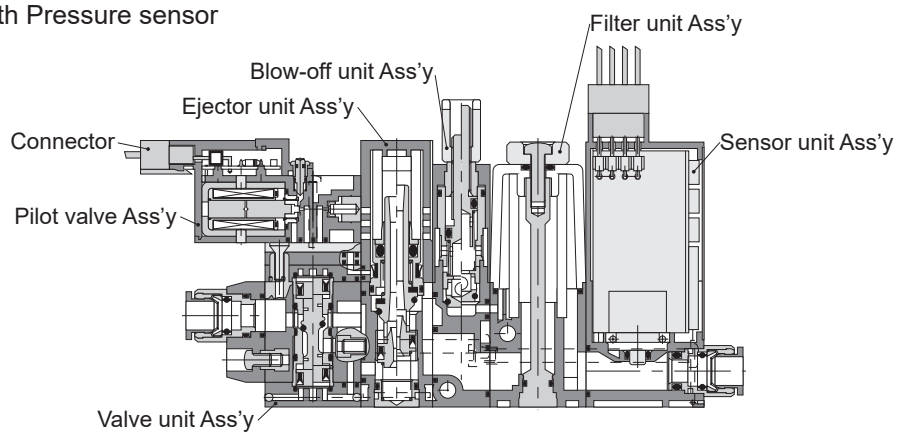
Manifold weight = [(1) VJ Stand alone unit + (2) Manifold intermediate block] x No. of stations + (3) Manifold side block + (4) Cartridge x quantity used

■ Sectional Drawings

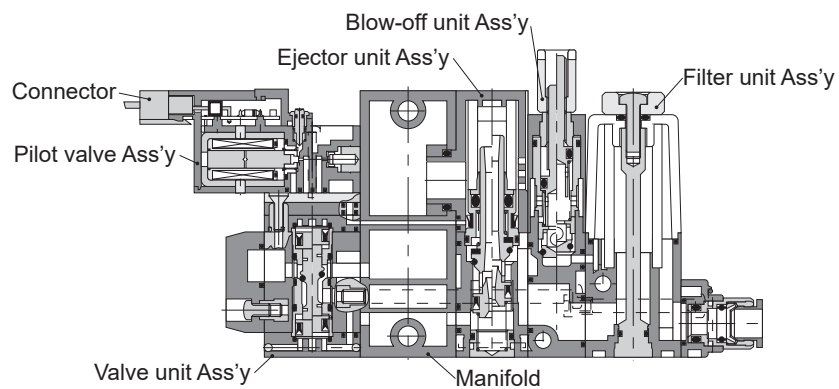
Stand-alone type without Pressure sensor



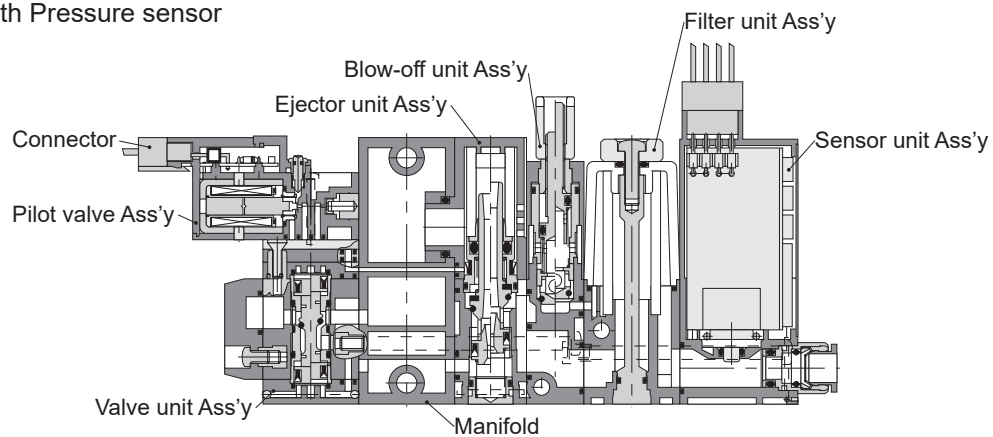
Stand-alone type with Pressure sensor



Manifold type without Pressure sensor



Manifold type with Pressure sensor

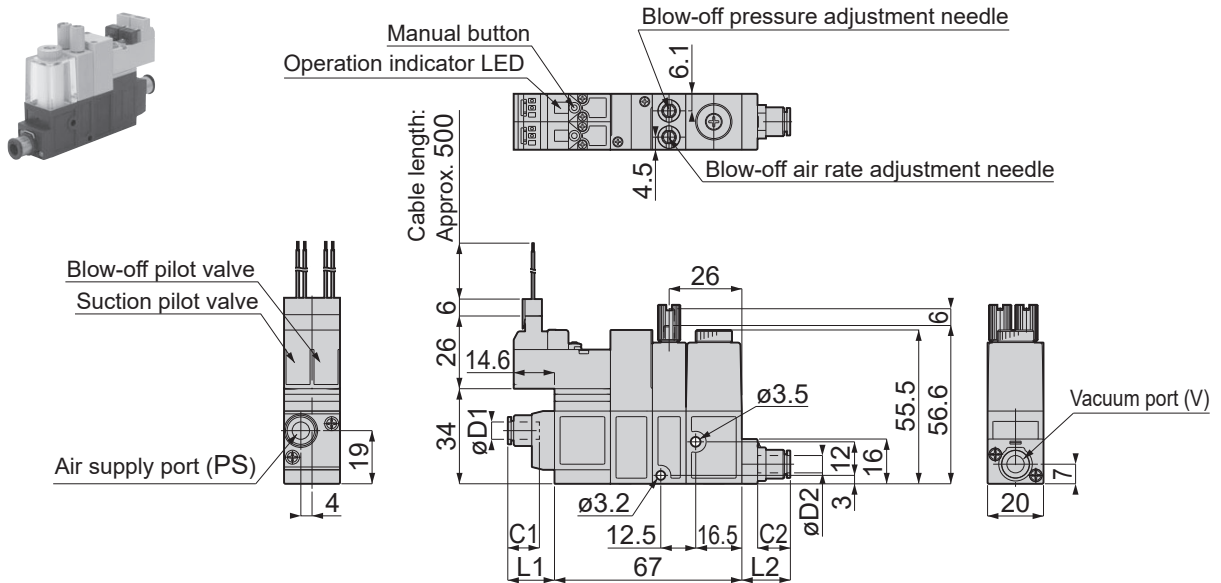


Dimensional Drawings

VJ Silencer vent, Wire lead-out direction: Top



Model code: VJ□□□-□□S-□L



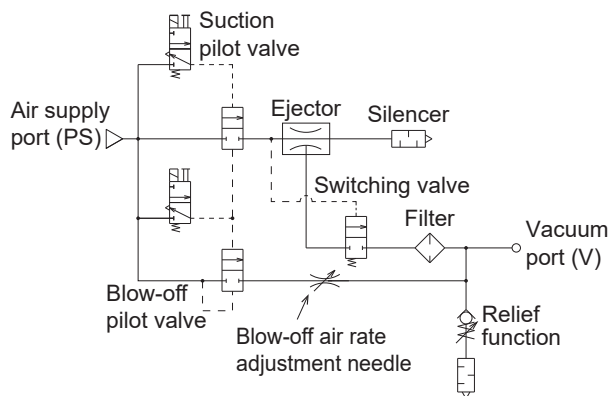
Unit: mm

	Tube O.D. $\phi D1$	L1	Tube end C1
Air supply port	4	14.6	10.9
	6	17.1	11.7

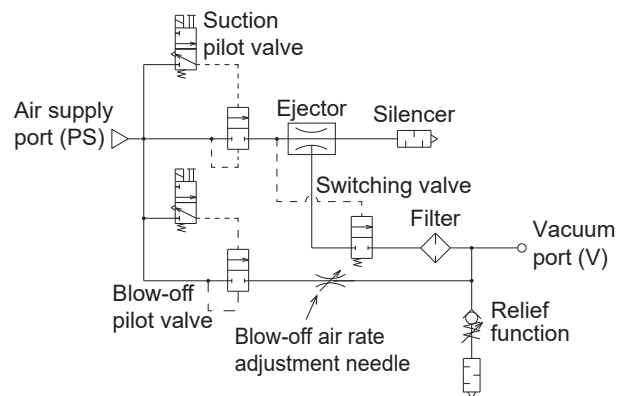
	Tube O.D. $\phi D2$	L2	Tube end C2
Vacuum port	4	14.3	10.9
	6	17.2	11.7
	8	25.8	18.2

Circuit diagram

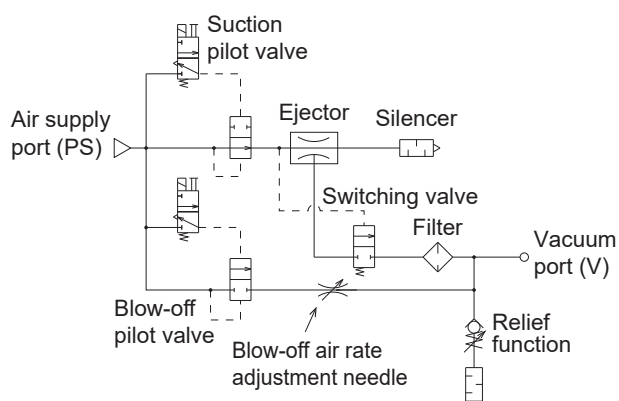
Double-piloted



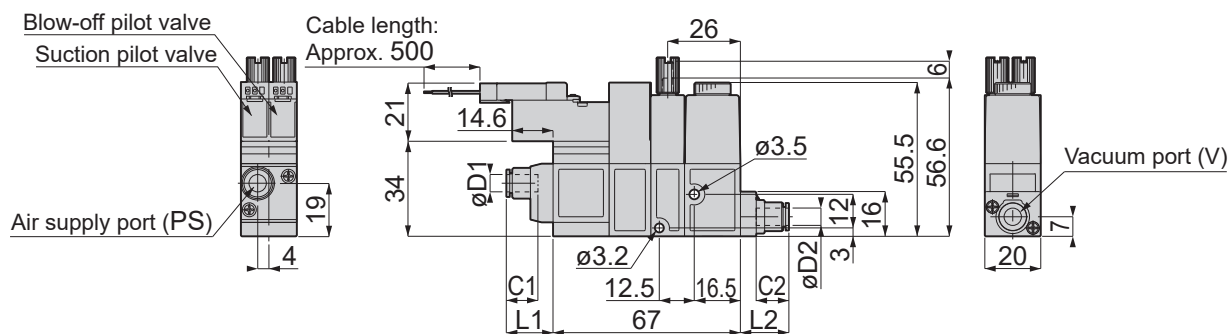
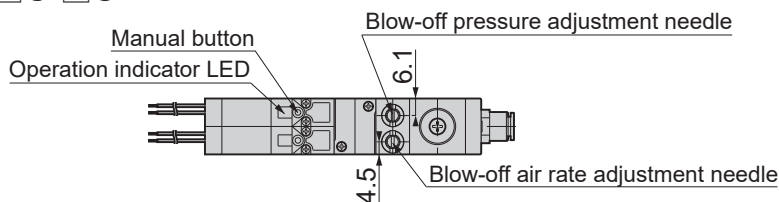
Normally closed



Normally open



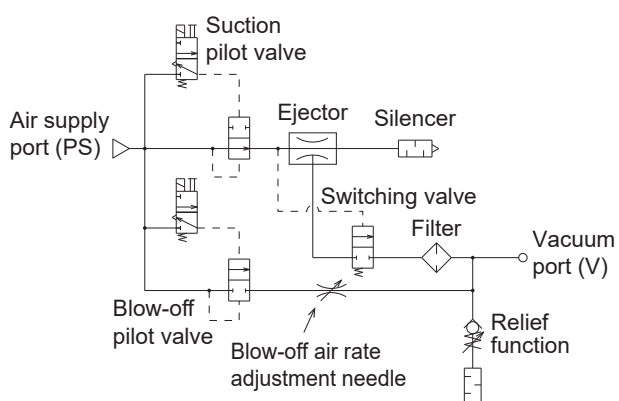
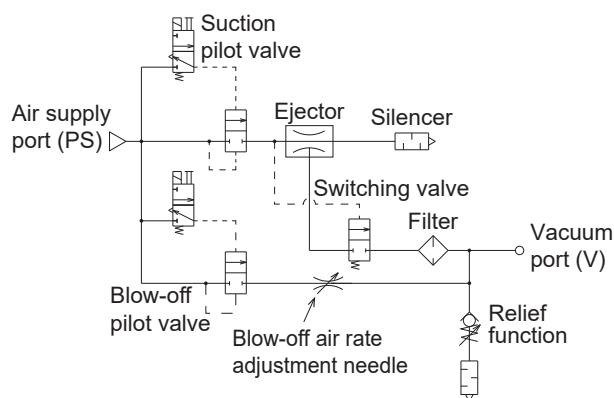
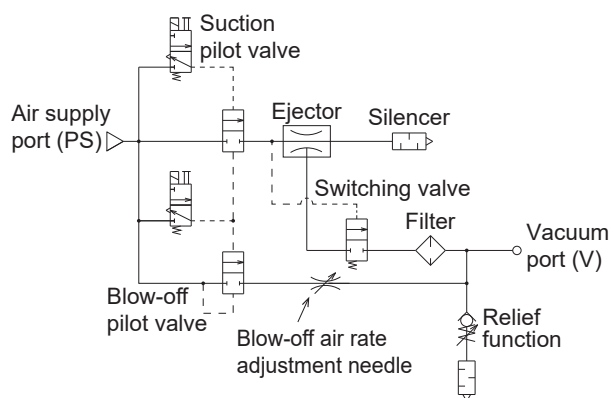
CAD
2D | 3D



Unit: mm

	Tube O.D. øD1	L1	Tube end C1
Air supply port	4	14.6	10.9
	6	17.1	11.7

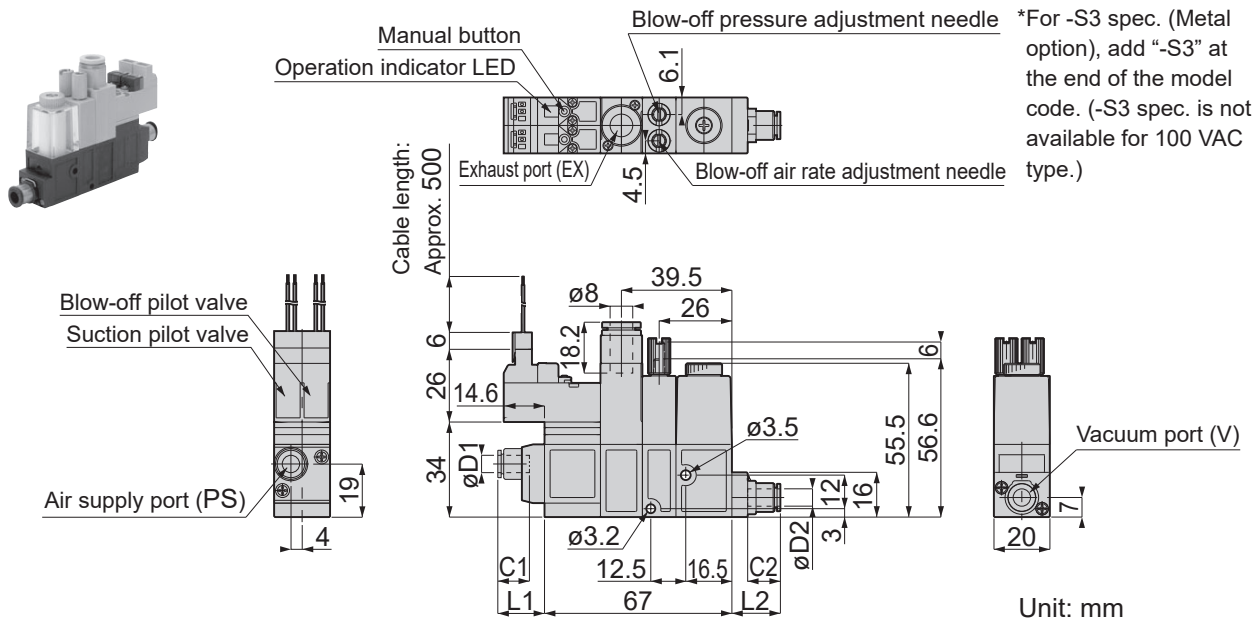
	Tube O.D. øD2	L2	Tube end C2
Vacuum port	4	14.3	10.9
	6	17.2	11.7
	8	25.8	18.2



VJ Tube exhaust, Wire lead-out direction: Top



Model code: VJ□□□-□□08-□L□



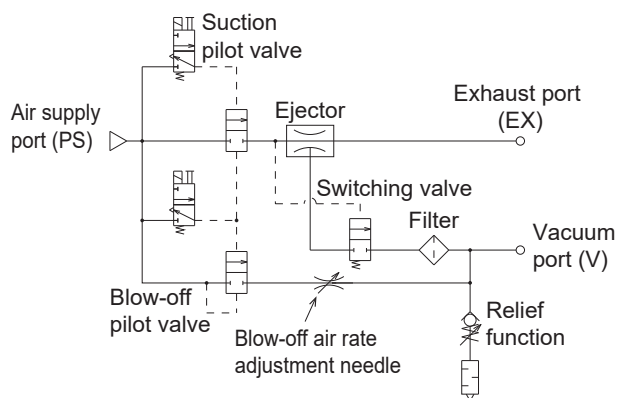
*For -S3 spec. (Metal option), add "-S3" at the end of the model code. (-S3 spec. is not available for 100 VAC type.)

	Tube O.D. øD1	L1	Tube end C1
Air supply port	4	14.6	10.9
	6	17.1	11.7

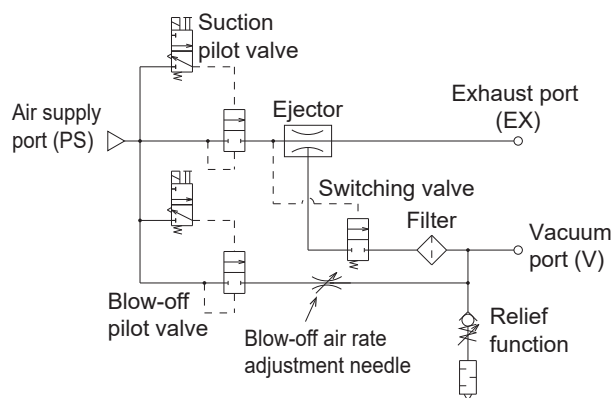
	Tube O.D. øD2	L2	Tube end C2
Vacuum port	4	14.3	10.9
	6	17.2	11.7
	8	25.8	18.2

Circuit diagram

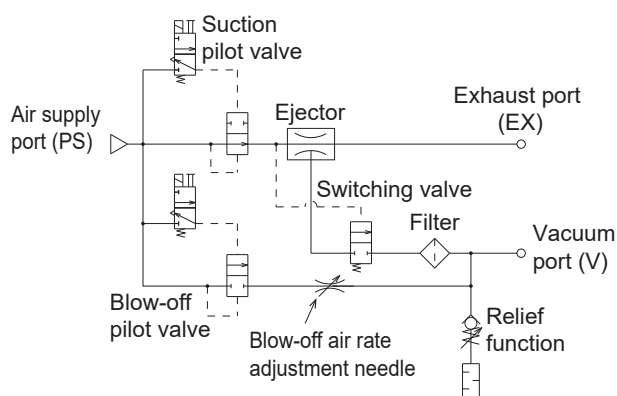
Double-piloted



Normally closed

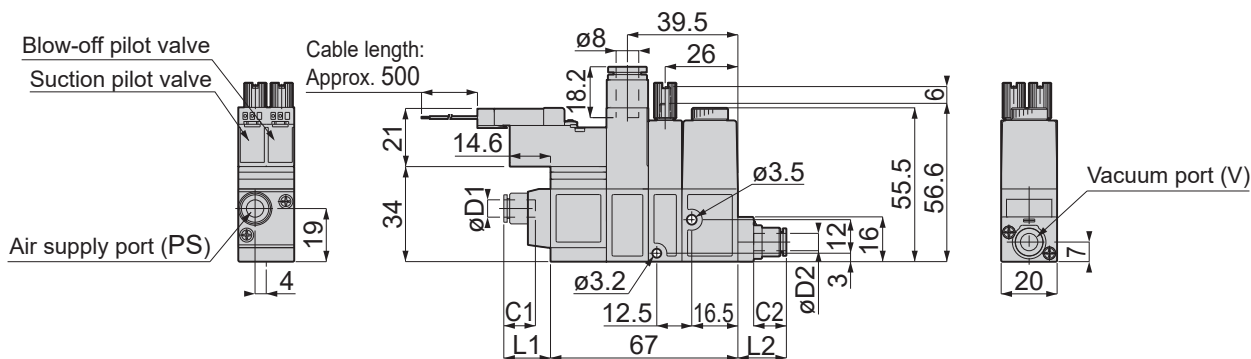
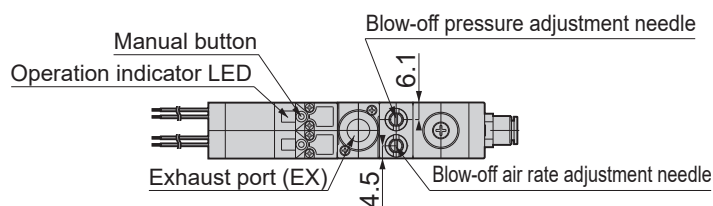
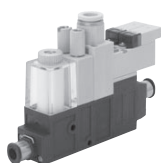


Normally open



RoHS2
CAD
2D | 3D

*For -S3 spec. (Metal option), add “-S3” at the end of the model code. (-S3 spec. is not available for 100 VAC type.)

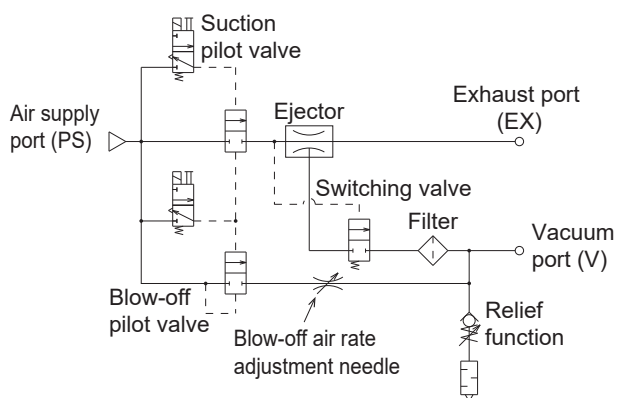


Unit: mm

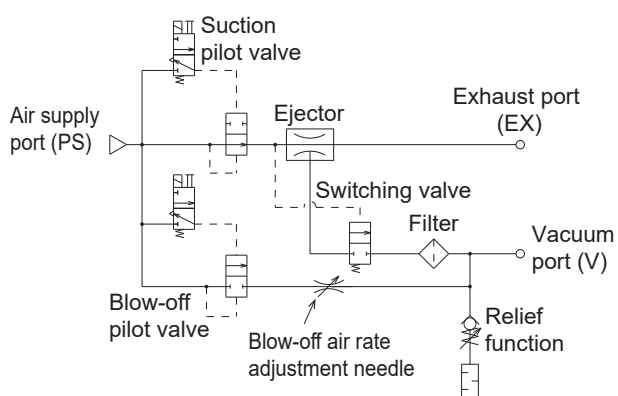
	Tube O.D. øD1	L1	Tube end C1
Air supply port	4	14.6	10.9
	6	17.1	11.7

	Tube O.D. øD2	L2	Tube end C2
Vacuum port	4	14.3	10.9
	6	17.2	11.7
	8	25.8	18.2

Double-piloted

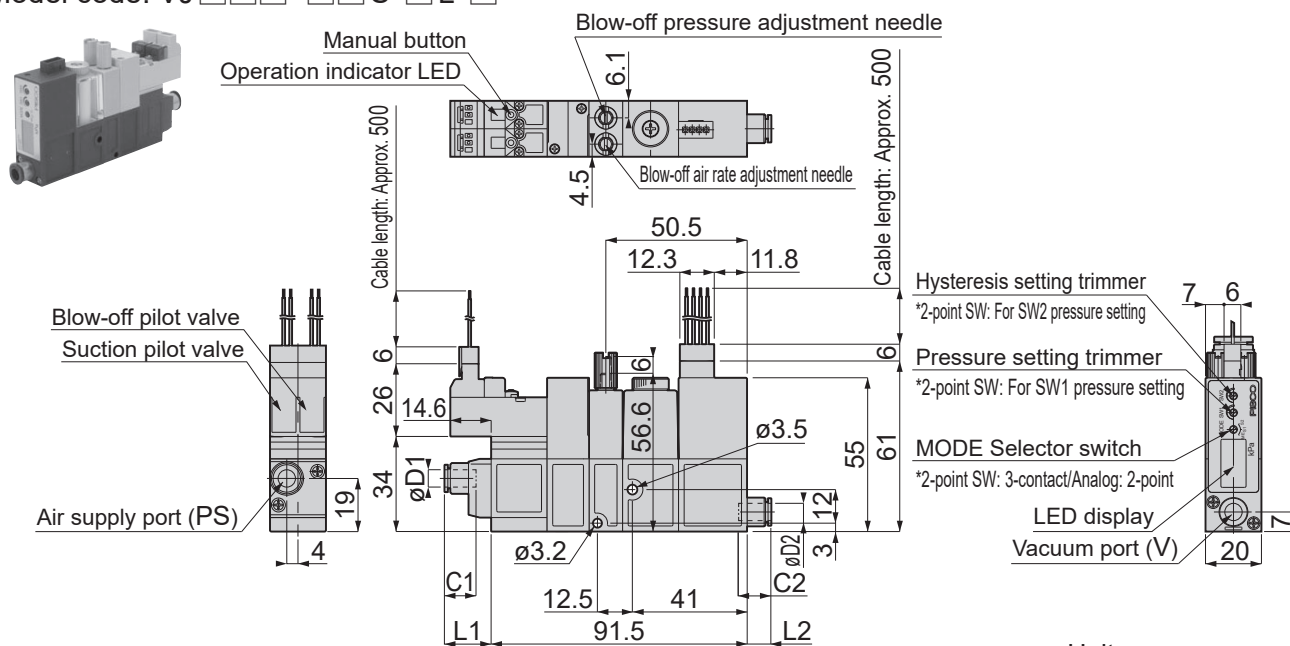


Normally open



VJ**Silencer vent, Wire lead-out direction: Top, With Pressure sensor**

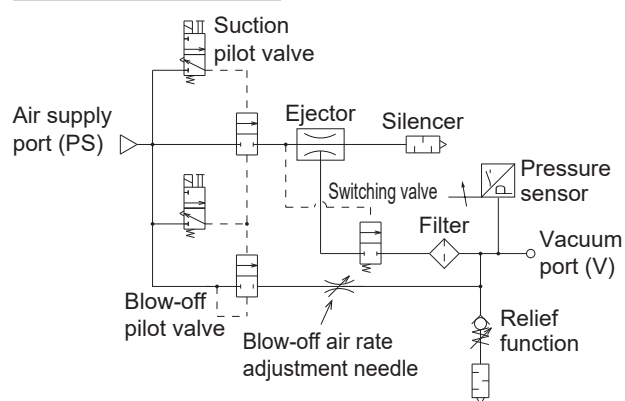
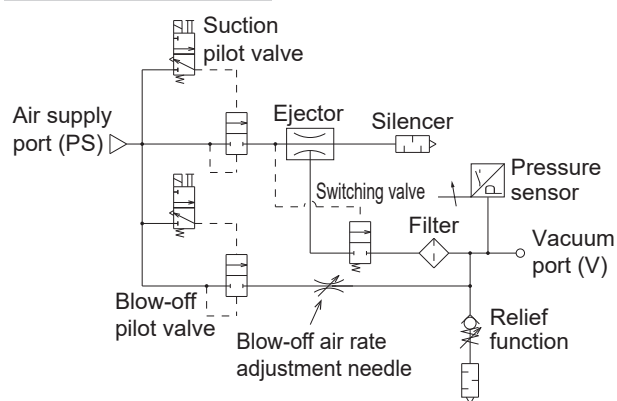
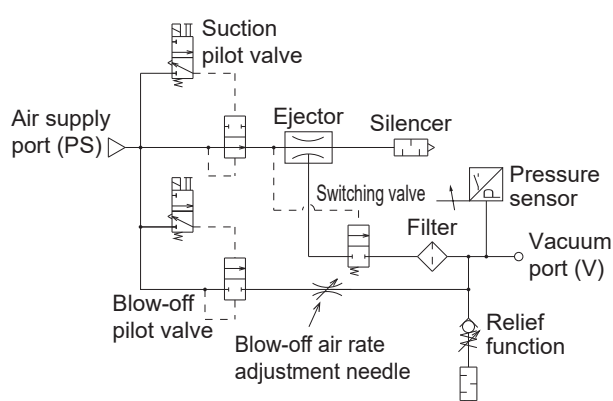
Model code: VJ□□□-□□S-□L-□



Unit: mm

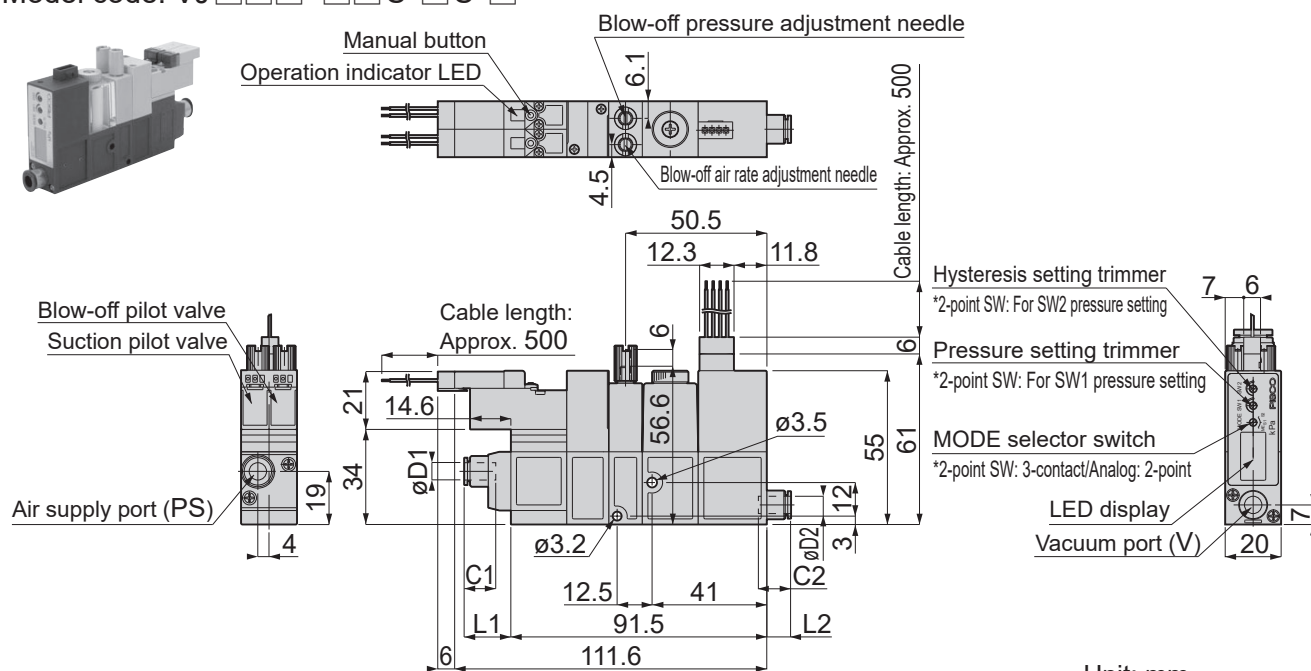
	Tube O.D. øD1	L1	Tube end C1
Air supply port	4	14.6	10.9
	6	17.1	11.7

	Tube O.D. øD2	L2	Tube end C2
Vacuum port	4	5.8	10.9
	6	8.7	11.7
	8	17.3	18.2

Circuit diagram**Double-piloted****Normally closed****Normally open**

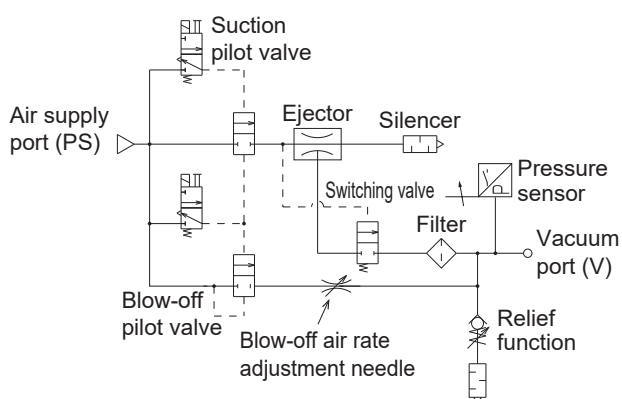
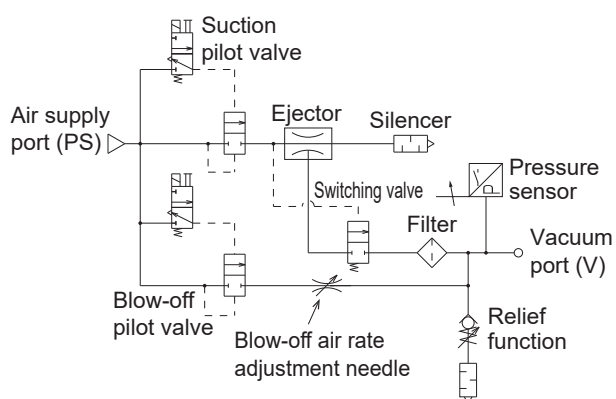
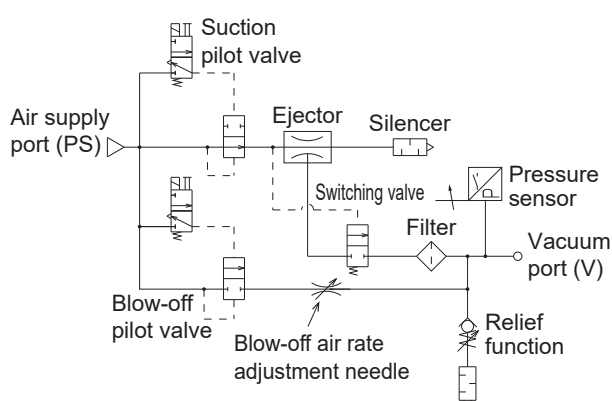
VJ**Silencer vent, Wire lead-out direction: Side, With Pressure sensor**

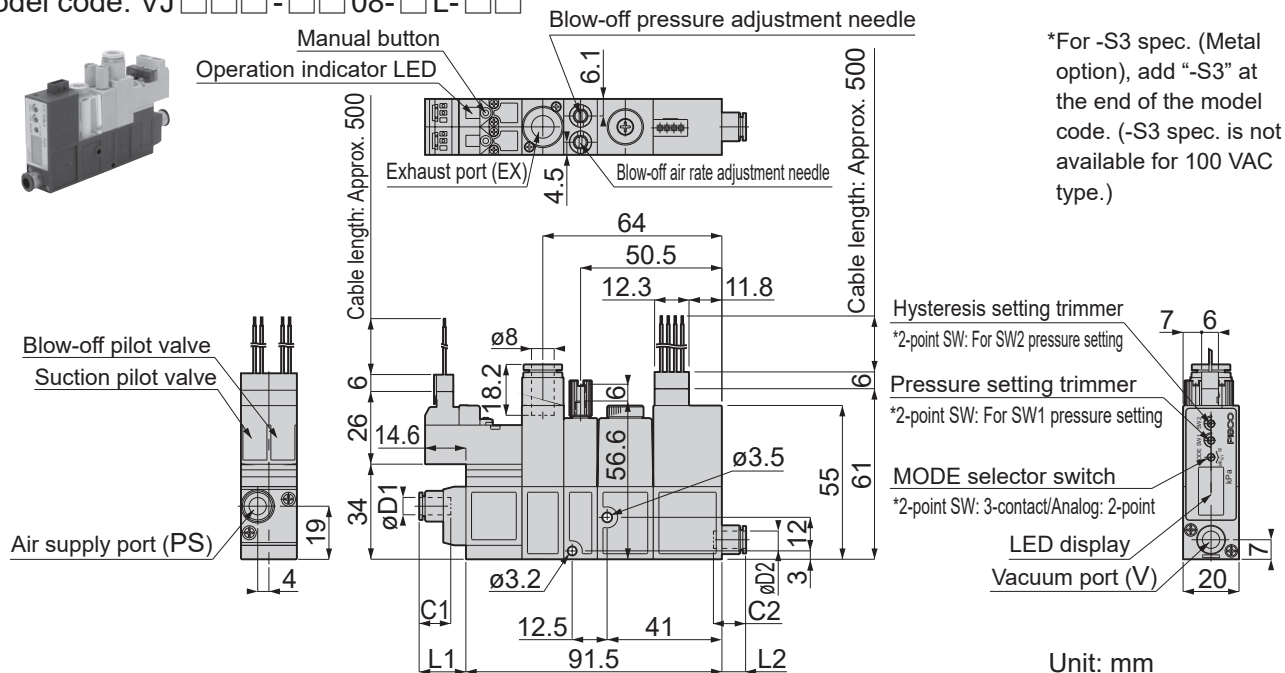
Model code: VJ□□□-□□S-□S-□



	Tube O.D. øD1	L1	Tube end C1
Air supply port	4	14.6	10.9
	6	17.1	11.7

	Tube O.D. øD2	L2	Tube end C2
Vacuum port	4	5.8	10.9
	6	8.7	11.7
	8	17.3	18.2

Circuit diagram**Double-piloted****Normally closed****Normally open**

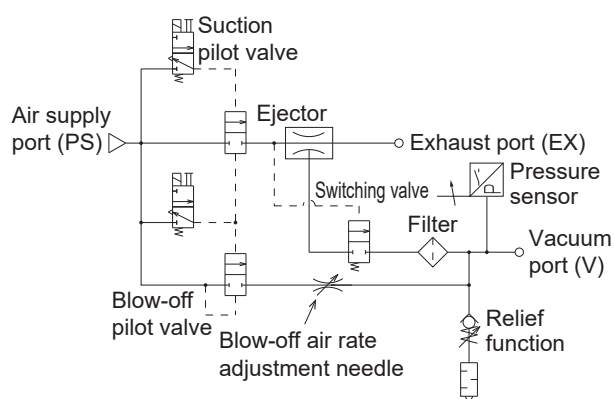


Unit: mm

	Tube O.D. øD1	L1	Tube end C1
Air supply port	4	14.6	10.9
	6	17.1	11.7

	Tube O.D. øD2	L2	Tube end C2
Vacuum port	4	5.8	10.9
	6	8.7	11.7
	8	17.3	18.2

Double-piloted

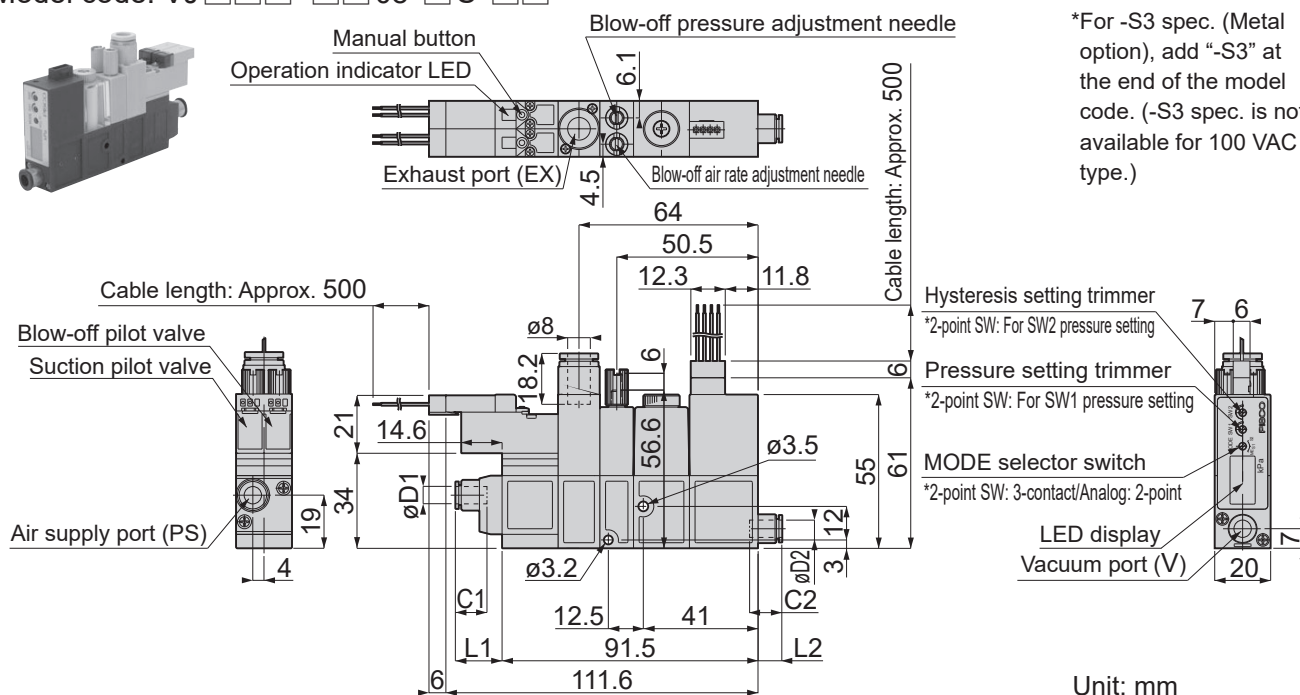


The diagram illustrates the vacuum system for the 1000 Series. It features an Air supply port (PS) at the top left. A Suction pilot valve is connected to the main line from PS. The main line from PS passes through a Blow-off pilot valve and a Blow-off air rate adjustment needle. The line then splits: one path goes through a Switching valve to the Ejector, and the other path goes through a Filter to the Vacuum port (V). The Ejector has an Exhaust port (EX) and a Pressure sensor. The Vacuum port (V) also has a Relief function. The Suction pilot valve is connected to the Ejector's suction side.

VJ**Tube exhaust, Wire lead-out direction: Side, With Pressure sensor**

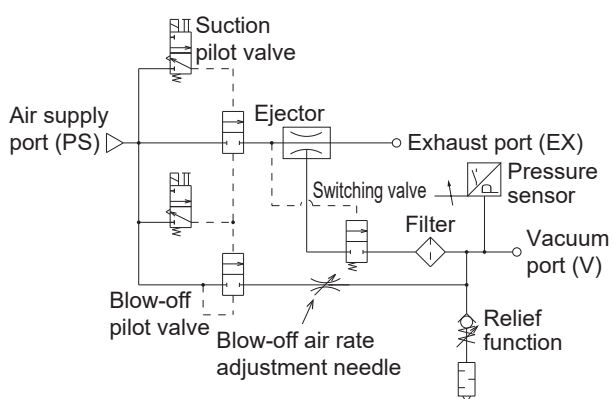
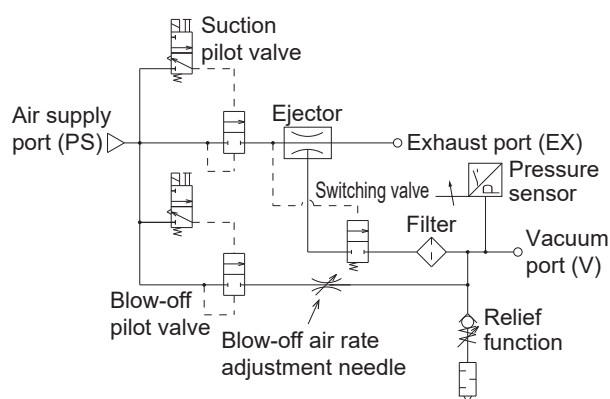
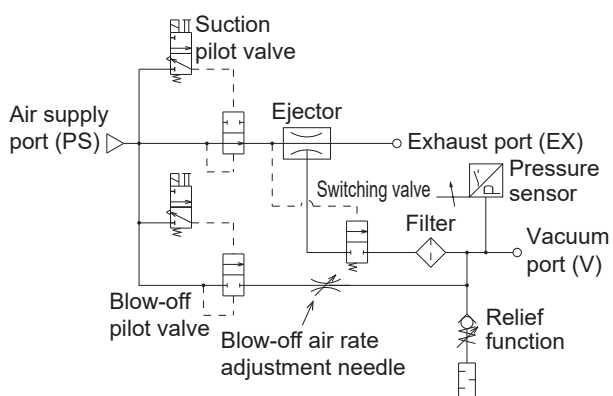
Model code: VJ□□□-□□08-□S-□□

*For -S3 spec. (Metal option), add "-S3" at the end of the model code. (-S3 spec. is not available for 100 VAC type.)



	Tube O.D. øD1	L1	Tube end C1
Air supply port	4	14.6	10.9
	6	17.1	11.7

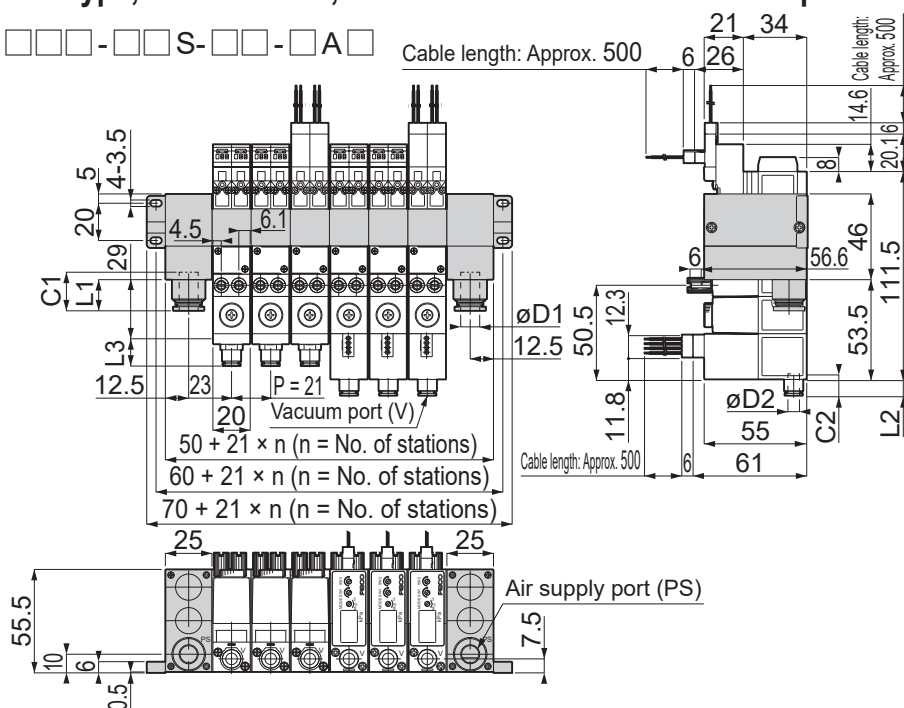
	Tube O.D. øD2	L2	Tube end C2
Vacuum port	4	5.8	10.9
	6	8.7	11.7
	8	17.3	18.2

Circuit diagram**Double-piloted****Normally closed****Normally open**

VJ**Manifold type, Silencer vent, Port lead-out direction: Vacuum port side**

Model code: VJ□□□-□□S-□□-□A□

Cable length: Approx. 500



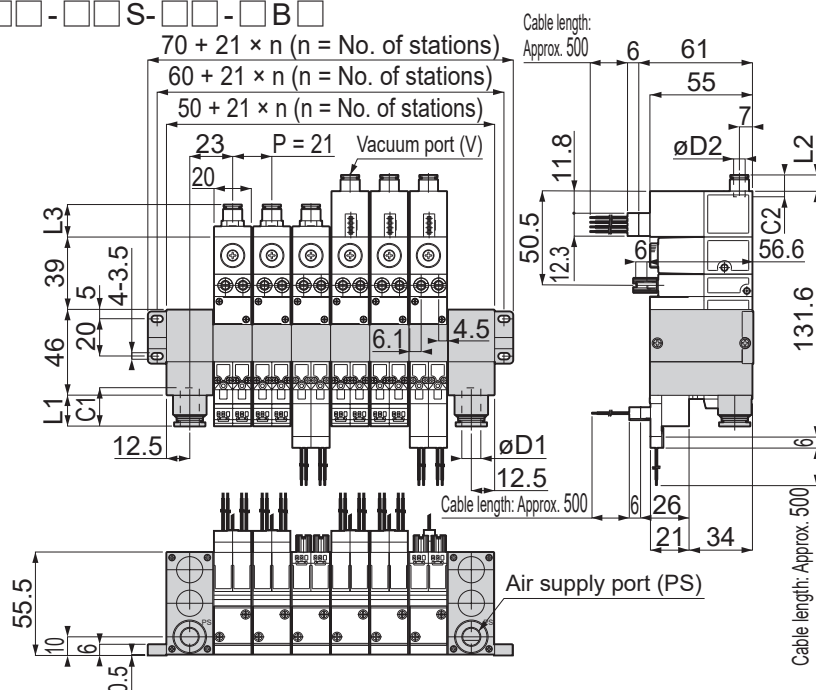
Unit: mm

	Tube O.D. øD1	L1	Tube end C1
Air supply port	6	11.55	16.95
	8	13.1	18.2
	10	16.7	20.7

	Tube O.D. øD2	L2	L3	Tube end C2
Vacuum port	4	5.8	14.3	10.9
	6	8.7	17.2	11.7
	8	17.3	25.8	18.2

VJ**Manifold type, Silencer vent, Port lead-out direction: Wiring side**

Model code: VJ□□□-□□S-□□-□B□



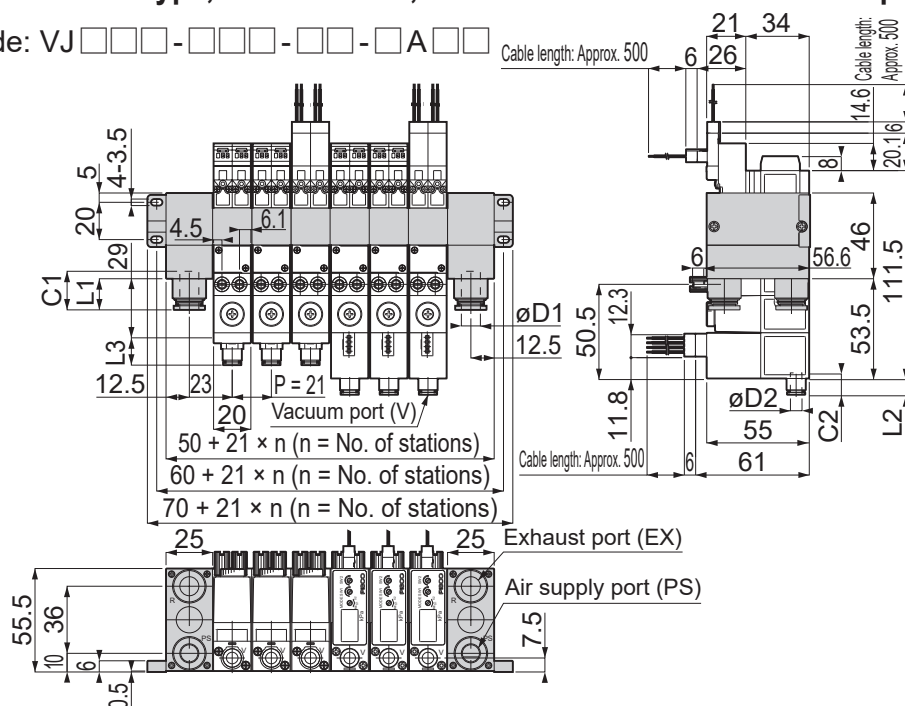
Unit: mm

	Tube O.D. øD1	L1	Tube end C1
Air supply port	6	11.55	16.95
	8	13.1	18.2
	10	16.7	20.7

	Tube O.D. øD2	L2	L3	Tube end C2
Vacuum port	4	5.8	14.3	10.9
	6	8.7	17.2	11.7
	8	17.3	25.8	18.2

VJ**Manifold type, Tube exhaust, Port lead-out direction: Vacuum port side**

Model code: VJ□□□-□□□-□□-□A□□



*For -S3 spec. (Metal option), add "-S3" at the end of the model code. (-S3 spec. is not available for 100 VAC type.)

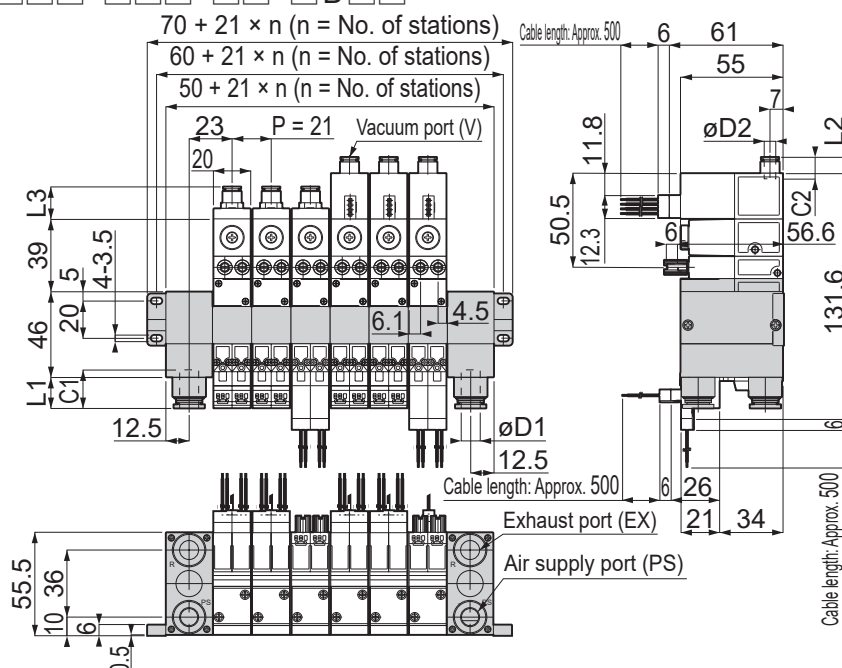
Unit: mm

	Tube O.D. øD1	L1	Tube end C1
Air supply port, Exhaust port	6	11.55	16.95
	8	13.1	18.2
	10	16.7	20.7

	Tube O.D. øD2	L2	L3	Tube end C2
Vacuum port	4	5.8	14.3	10.9
	6	8.7	17.2	11.7
	8	17.3	25.8	18.2

VJ**Manifold type, Tube exhaust, Port lead-out direction: Wiring side**

Model code: VJ□□□-□□□-□□-□B□□



*For -S3 spec. (Metal option), add "-S3" at the end of the model code. (-S3 spec. is not available for 100 VAC type.)

Unit: mm

	Tube O.D. øD1	L1	Tube end C1
Air supply port, Exhaust port	6	11.55	16.95
	8	13.1	18.2
	10	16.7	20.7

	Tube O.D. øD2	L2	L3	Tube end C2
Vacuum port	4	5.8	14.3	10.9
	6	8.7	17.2	11.7
	8	17.3	25.8	18.2