

MVJA-156 series

MULTI CONNECTOR SYSTEM / FIELDBUS SYSTEM (EtherNet/IP)



Feature

- All-in-one gasket for the base can be easier to increase the number of valve blocks.
- Plug-in design reduces the time for wiring and labor cost.
- The function for communication protocol can be expanded with MVE series.
- The module is compatible with both NPN/PNP.
- Low power consumption (0.55W standard) for solenoid valve.

Remark

- Maximum number of stations with fieldbus system (MVE series)
4E1: 12 stations, 4E2 & 4E2C.P.R: 11 stations.

Please contact sales for ordering

Method of choosing model

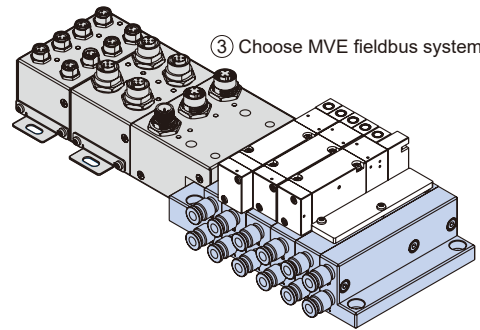
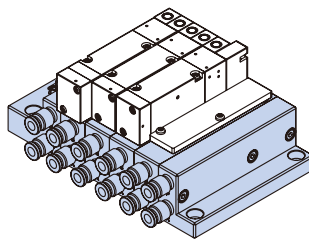
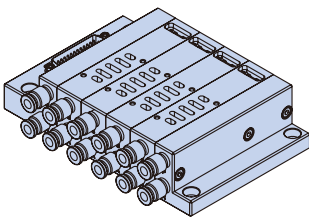
① Choose number of manifold and tube fitting type.



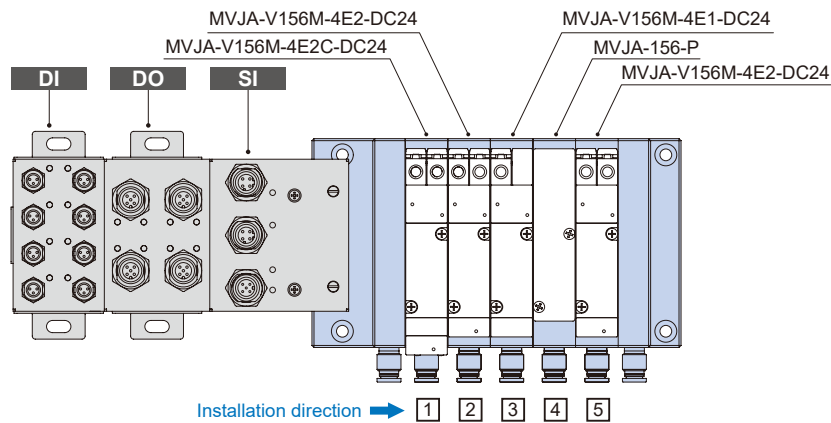
② Choose solenoid valve and blocking plate.



③ Choose MVE fieldbus system.



Order example



Step ① Model of manifold	MVJA-156M-S5C6-MVE-BC8												
Step ② Solenoid valve / Block plate	Qty	Installation position											
		1	2	3	4	5	6	7	8	9	10	11	12
MVJA-V156M-4E1-DC24	1			●									
MVJA-V156M-4E2-DC24	2		●			●							
MVJA-V156M-4E2C-DC24	1	●											
MVJA-V156M-4E2P-DC24	0												
MVJA-V156M-4E2R-DC24	0												
MVJA-156-P	1				●								
Step ③ MVE Fieldbus system													
MVE-100-SEA-P	1	-											
MVE-100-DOPB-B5	1												
MVE-100-DIPA-B5	1	The total number of DI+DO is 8.											

Step ① Manifold number + Tube fitting type MVJA-156M-S5C6-MVE-BC8 × 1 set
Step ② Solenoid valve / Blocking plate MVJA-V156M-4E2C-DC24 × 1 set MVJA-V156M-4E1-DC24 × 1 set MVJA-V156M-4E2-DC24 × 2 set MVJA-156-P × 1 set
Step ③ MVE fieldbus system (SI/ DI/ DO unit) MVE-100-SEA-P × 1 set MVE-100-DOPB-B5 × 1 set MVE-100-DIPA-B5 × 1 set

MVJA-156 Order example



MULTI CONNECTOR SYSTEM / FIELDBUS SYSTEM (EtherNet/IP)

Mindman

Step 1 Order example of Manifold

MVJA — 156M — S4 C6 — 25D — B L8

MODEL

SPEC.

MANIFOLD NUMBER
0, 1, 2, 3..., 12

CONNECTOR TYPE

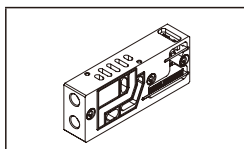
25D: 25 pin D-Sub
MVE: MVE fieldbus system

M: Manifold type

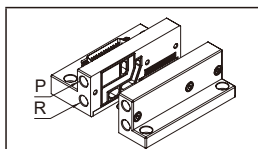
MANIFOLD TUBE FITTING TYPE

END BLOCK TUBE FITTING

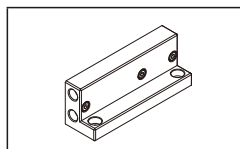
END BLOCK TUBE FITTING TYPE



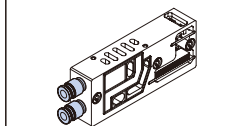
Blank: Without tube fitting or the manifold number is 0



Blank: Without tube fitting & plug

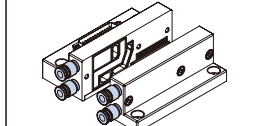


Blank: Without tube fitting

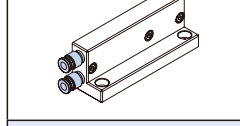


C6: Straight (dia. ø6mm)

C8: Straight (dia. ø8mm)

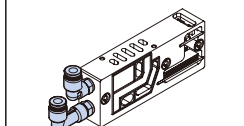


B: Tube fitting both sides



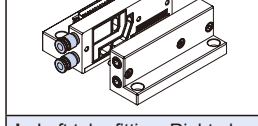
C6: Straight (dia. ø6mm)

C8: Straight (dia. ø8mm)

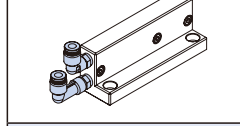


L6: Elbow (dia. ø6mm)

L8: Elbow (dia. ø8mm)

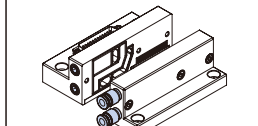


L: Left tube fitting, Right plug



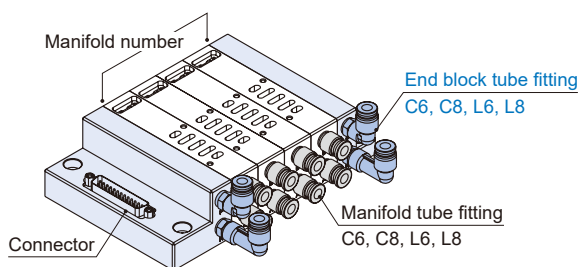
L6: Elbow (dia. ø6mm)

L8: Elbow (dia. ø8mm)



R: Left plug, Right tube fitting

* P(SUP) / R(EXH)



MVJA-156 Order example

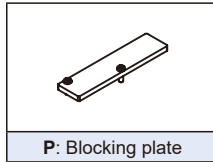
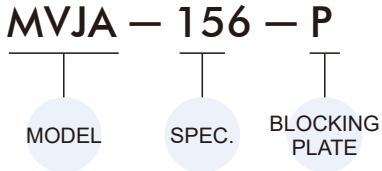


MULTI CONNECTOR SYSTEM / FIELD BUS SYSTEM (EtherNet/IP)

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Step 2 Order example of Solenoid valve / blocking plate

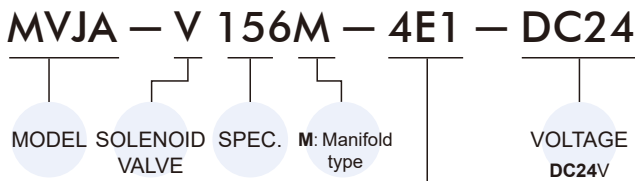
Blocking plate



Specification of Solenoid valve

Model	4E1	4E2	4E2 C.P.R
No. of port	5		
No. of position	2	3	
Medium	Air		
Operating pressure range	0.15~0.7 MPa		0.2~0.7 MPa
Proof pressure	1 MPa		
Effective orifice	10 mm ²	7.5/ 13/ 8 mm ²	
Response time	19 ms		20 ms
Ambient temperature	+5~+50°C		
Max operating frequency	5 Hz		
Voltage	DC24V		
Power consumption	0.55W		
Available voltage range	±10%		
Insulation class	B		
Weight	129 g	126 g	139 g

Solenoid valve



TYPE OF ACTUATION

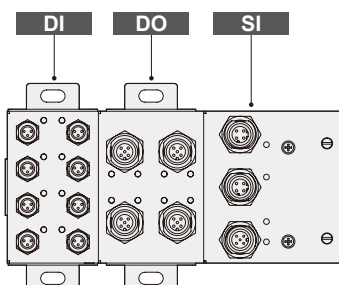
4E1: 5/2 Single solenoid	4E2: 5/2 Double solenoid	4E2C: 5/3 Double solenoid	4E2P: 5/3 Double solenoid	4E2R: 5/3 Double solenoid

Step 3 Order example of SI unit

MVE — 100 — SEA — N

PROTOCOL OUTPUT TYPE

EA: EtherNet / IP P: PNP (-COM)
N: NPN (+COM)



Order example of DI digital input unit

MVE — 100 — DI P A — B5

Input type	Number of input and connector			Bracket
	Symbol	Number	Connector	
P	PNP	A	8 input	M8 connector (3 PIN) 8 pcs
N	NPN			B5: B-MVE-JA156M

Order example of DO digital output unit

MVE — 100 — DO P B — B5

Output type	Number of output and connector			Bracket
	Symbol	Number	Connector	
P	PNP	B	8 output	M12 connector (5 PIN) 4 pcs
N	NPN			B5: B-MVE-JA156M

* Use the same units with MVE, please refer to pages 1-129~131.

MVJA-156 Order example



MULTI CONNECTOR SYSTEM / FIELDBUS SYSTEM (EtherNet/IP)

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Order example of Valve block for expansion

MVJA — C 156M — 4E1 — DC24 — C6

MODEL VALVE BLOCK SPEC. M: Manifold type

* The valve block includes connecting screw and gasket.

VOLTAGE DC24V

* Only the solenoid valve type is available.

Cable

MVB — 100 — D

MODEL

D-SUB CABLE

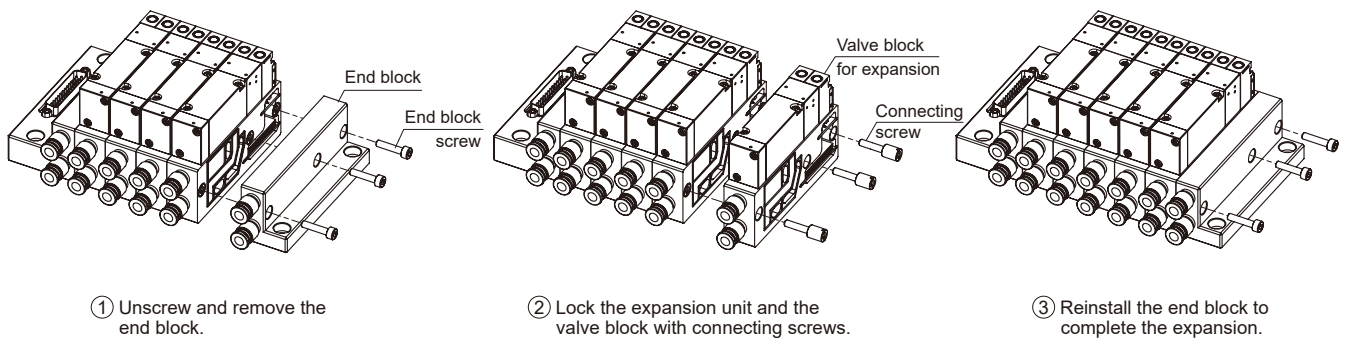
* Use the same cable with MVB-100, please refer to page 1-100.

SOLENOID VALVE / BLOCKING PLATE

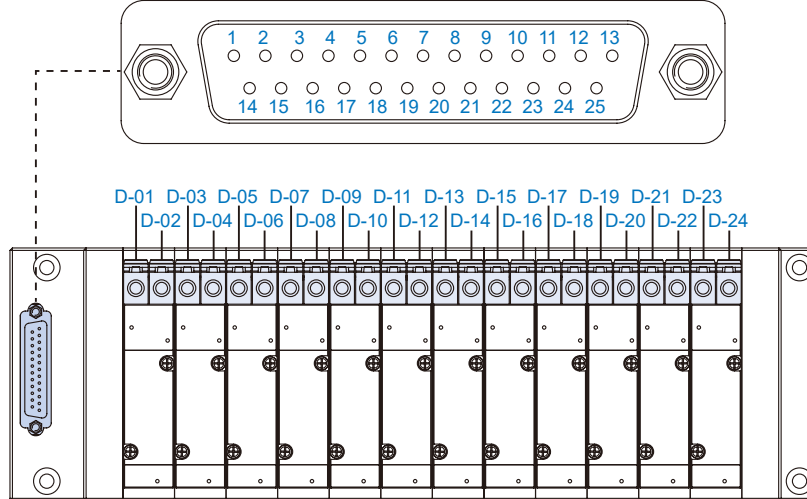
TUBE FITTING TYPE

4E1: 5/2 Single solenoid	B: Manifold with blocking plate	Blank: without fitting
4E2: 5/2 Double solenoid	M: Manifold	C6: Straight (dia. ø6mm)
4E2C: 5/3 Double solenoid		C8: Straight (dia. ø8mm)
4E2P: 5/3 Double solenoid		L6: Elbow (dia. ø6mm)
4E2R: 5/3 Double solenoid		L8: Elbow (dia. ø8mm)

Manifold expansion method



D-Sub plug pin wiring



Pin	1	2	3	4	5	6	7	8	9	10	11	12	13
Coil	D-01	D-03	D-05	D-07	D-09	D-11	D-13	D-15	D-17	D-19	D-21	D-23	COM
Pin	14	15	16	17	18	19	20	21	22	23	24	25	
Coil	D-02	D-04	D-06	D-08	D-10	D-12	D-14	D-16	D-18	D-20	D-22	D-24	

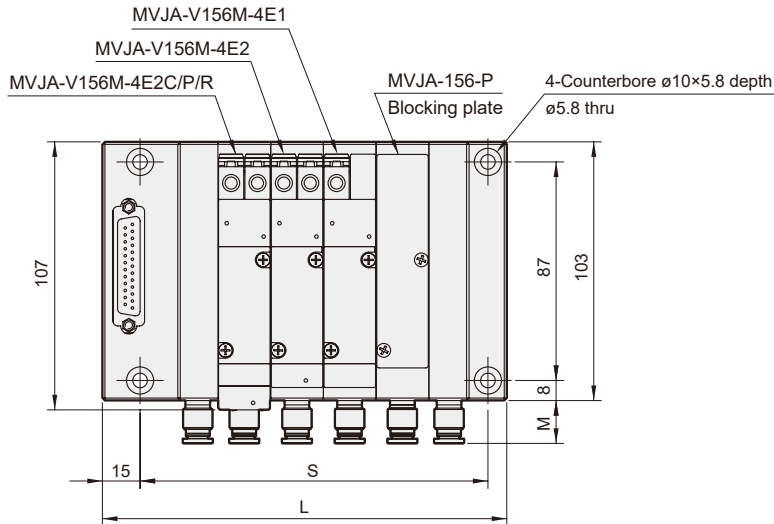
MVJA-156 Dimensions

MULTI CONNECTOR SYSTEM / FIELDBUS SYSTEM (EtherNet/IP)



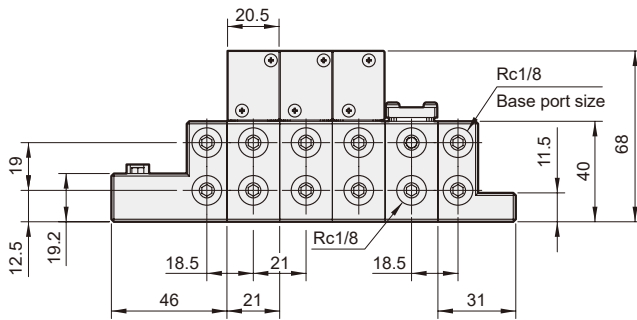
MVJA-156M-S*-25D

with D-Sub Connector

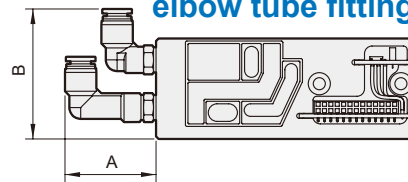


No. of stations	L	L1	S
1	98	149	75.5
2	119	170	96.5
3	140	191	117.5
4	161	212	138.5
5	182	233	159.5
6	203	254	180.5
7	224	275	201.5
8	245	296	222.5
9	266	317	243.5
10	287	338	264.5
11	308	359	285.5
12	329	380	306.5

Code Tube fitting	A	B	M
ø6	36.5	52	17
ø8	41	54.5	20



The dimension of elbow tube fitting



MVJA-156M-S*-MVE

with MVE Fieldbus system

