

MVJA-156 series

MULTI CONNECTOR SYSTEM / FIELDBUS SYSTEM (EtherNet/IP)



Features



Inquiry sheet



Technical data



Caution for safety

(Read before installing)



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

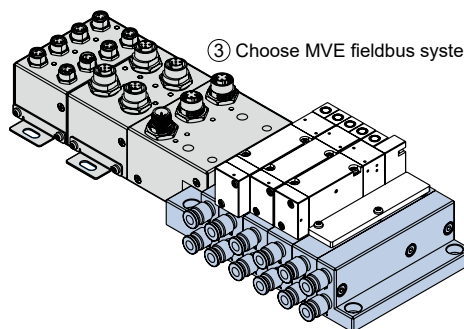
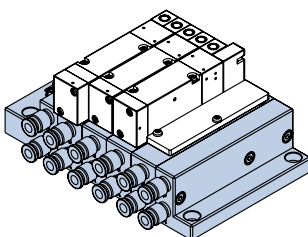
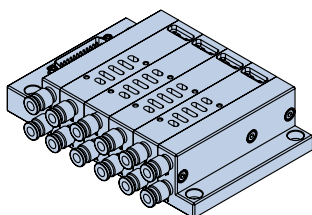
① Choose number of manifold and tube fitting type.



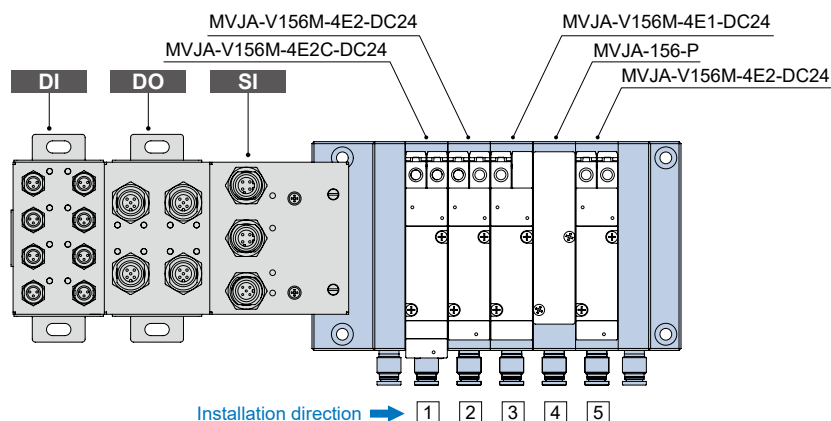
② Choose solenoid valve and blocking plate.



③ Choose MVE fieldbus system.



Order example



Step① Model of manifold	MVJA-156M-S5C6-MVE-BC8												
Step② 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				●								
Step③ MVE Fieldbus system													
MVE-100-SEA-P	1	—											
MVE-100-DOPB-B5	1	The total number of DI+DO is 8.											
MVE-100-DIPA-B5	1												

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)



Step 1 Order example of Manifold

MVJA — 156M — S4 C6 — 25D — B L8

MODEL

SPEC.

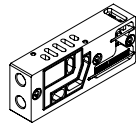
M: Manifold type

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

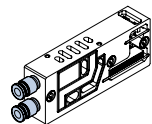
CONNECTOR
TYPE

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

MANIFOLD
TUBE FITTING TYPE

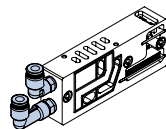


Blank: Without tube fitting
or the manifold number is 0



C6: Straight (dia. ø6mm)

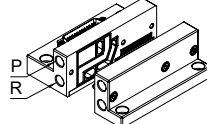
C8: Straight (dia. ø8mm)



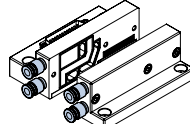
L6: Elbow (dia. ø6mm)

L8: Elbow (dia. ø8mm)

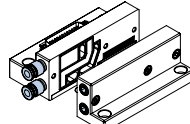
END BLOCK
TUBE FITTING



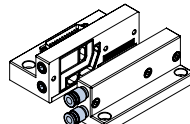
Blank: Without tube fitting
& plug



B: Tube fitting both sides



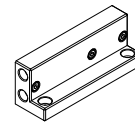
L: Left tube fitting, Right plug



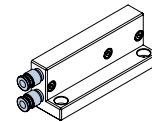
R: Left plug, Right tube fitting

* P(SUP) / R(EXH)

END BLOCK
TUBE FITTING TYPE

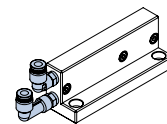


Blank: Without tube fitting



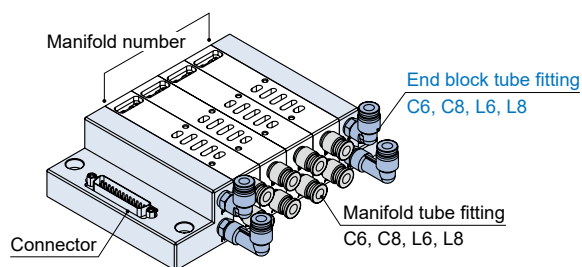
C6: Straight (dia. ø6mm)

C8: Straight (dia. ø8mm)



L6: Elbow (dia. ø6mm)

L8: Elbow (dia. ø8mm)



MVJA-156 Order example

MULTI CONNECTOR SYSTEM / FIELDBUS SYSTEM (EtherNet/IP)



Mindman

Step 2 Order example of Solenoid valve / blocking plate

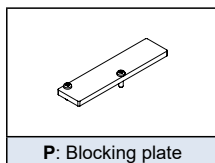
Blocking plate

MVJA — 156 — P

MODEL

SPEC.

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 perssure 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	
Reponse 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

MVJA — V 156M — 4E1 — DC24

MODEL

SOLENOID
VALVE

SPEC.

M: Manifold
type

VOLTAGE
DC24V

TYPE OF ACTUATION

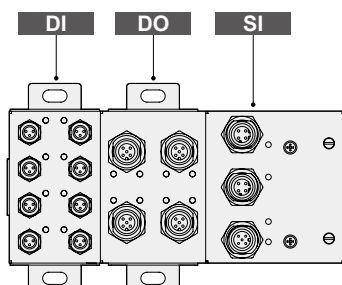
4E1: 5/2 Single solenoid	4E2: 5/2 Double solenoid	4E2C: 5/3 Double solenoid	4E2P: 5/3 Double solenoid	4E2R: 5/3 Double solenoid

Step 3 Order example of SI unit

MVE — 100 — SEA — N

PROTOCOL
EA: EtherNet / IP

OUTPUT TYPE
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

	Symbol	Number	Connector
P	PNP	A	8 input
N	NPN		M8 connector (3 PIN) 8 pcs

Bracket

B5: B-MVE-JA156M

Order example of DO digital output unit

MVE — 100 — DO P B — B5

Output type

Number of output and connector

	Symbol	Number	Connector
P	PNP	B	8 output
N	NPN		M12 connector (5 PIN) 4 pcs

Bracket

B5: B-MVE-JA156M

* Use the same units with MVE-100

MVJA-156 Order example

MULTI CONNECTOR SYSTEM / FIELDBUS SYSTEM (EtherNet/IP)



Mindman

Order example of Valve block for expansion

MVJA — C 156M — 4E1 — DC24 — C6

MODEL

VALVE
BLOCK

SPEC.

M: Manifold
type

VOLTAGE
DC24V

* Only the solenoid
valve type is available.

* The valve block
includes connecting
screw and gasket.

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	C8: Straight (dia. ø8mm)
4E2C: 5/3 Double solenoid		L8: Elbow (dia. ø8mm)
4E2P: 5/3 Double solenoid		
4E2R: 5/3 Double solenoid		

Cable

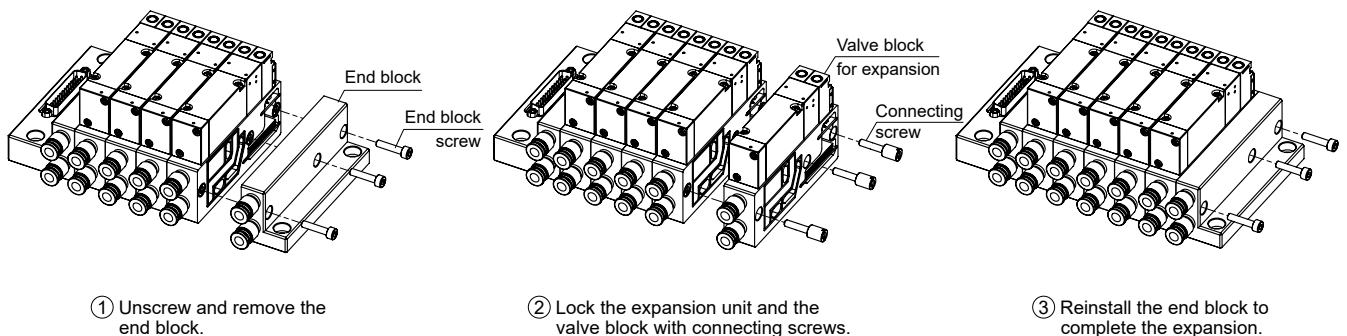
MVB — 100 — D

MODEL

D-SUB CABLE

* Use the same cable with MVB-100

Manifold expansion method

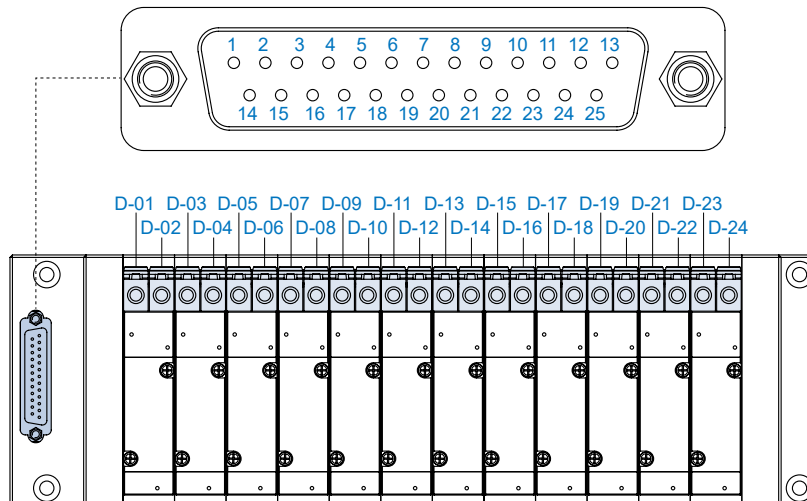


MVJA-156 Wiring

MULTI CONNECTOR SYSTEM / FIELDBUS SYSTEM (EtherNet/IP)



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

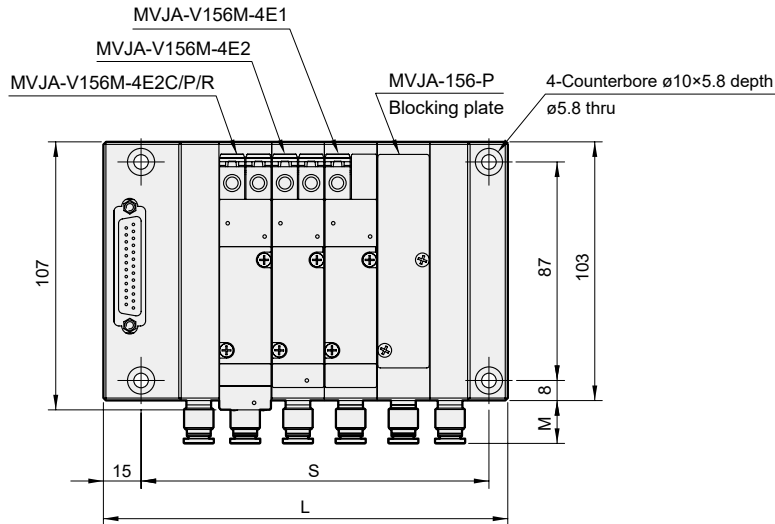
MULTI CONNECTOR SYSTEM / FIELDBUS SYSTEM (EtherNet/IP)



mindman

MVJA-156M-S*-25D

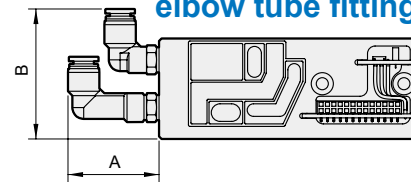
with D-Sub Connector



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

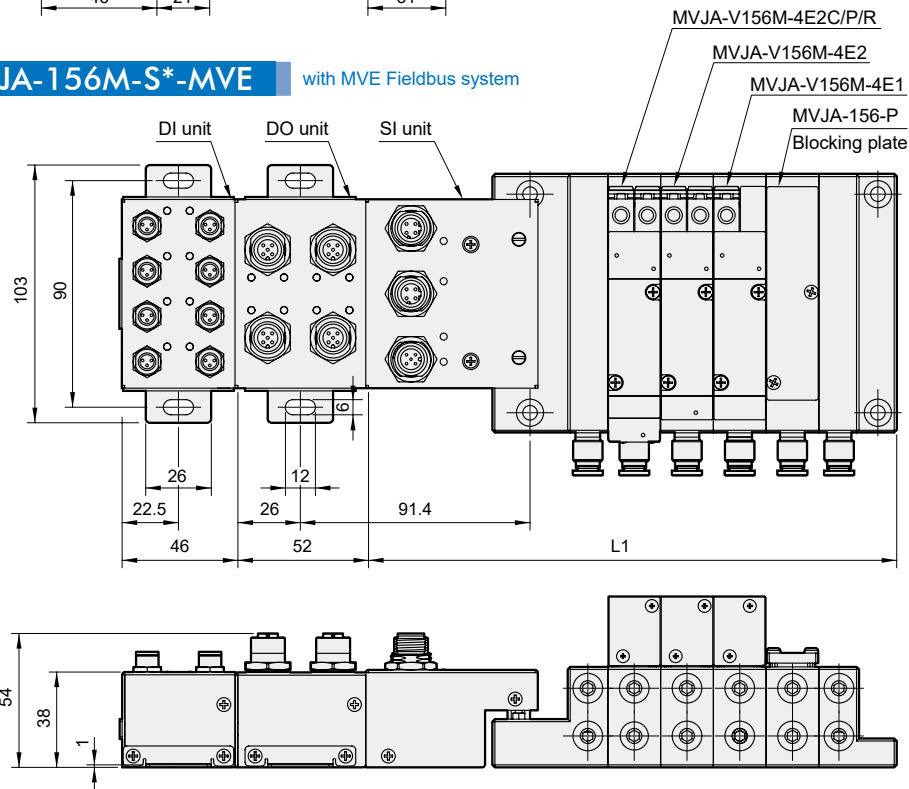
Code Tube fitting	A	B	M
ø6	36.5	52	17
ø8	41	54.5	20

The dimension of elbow tube fitting



MVJA-156M-S*-MVE

with MVE Fieldbus system



MVJA-156 Order form

MULTI CONNECTOR SYSTEM / FIELDBUS SYSTEM (EtherNet/IP)



Mindman

CUSTOMER INFORMATION

Date issued

Quantity

Company

Delivery date

Contact

Mr/Ms

Order taker

MODEL OF MANIFOLD

MVJA – 156M – S

Manifold number & Tube fitting type

Connector type

End block tube fitting & Tube fitting type

Serial number

SOLENOID VALVE / BLOCKING PLATE	Qty	Installation position												Note
		1	2	3	4	5	6	7	8	9	10	11	12	
MVJA-V156M-4E1-DC24														
MVJA-V156M-4E2-DC24														
MVJA-V156M-4E2C-DC24														
MVJA-V156M-4E2P-DC24														
MVJA-V156M-4E2R-DC24														
MVJA-156-P														

MVE FIELDBUS SYSTEM	Qty	Note
MVE-100-SEA- ☐		—
MVE-100-DO ☐ B-B5		The total number of DI+DO is 8 (Please select input/ output type ☐ P: PNP, ☐ N: NPN)
MVE-100-DI ☐ A-B5		

Note