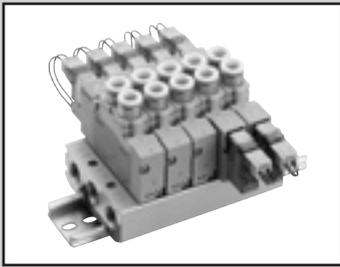


SCPD3  
SCM  
SSD2  
MDC2  
SMG  
LCM  
LCR  
LCG  
LCX  
STM  
STG  
STR2  
MRL2  
GRC  
Cylinder switch  
MN3E  
MN4E  
4GA/B  
M4GA/B  
MN4GA/B  
F.R (module unit)  
Clean F.R  
Precision R  
Press gauge  
Diff. press gauge  
Electro-pneumatic R  
Speed controller  
Auxiliary valve  
Fitting/tube  
Clean air unit  
Pressure sensor  
Flow rate sensor  
Valve for air blow  
Ending



Individual wiring manifold  
Body piping  
Direct mount DIN rail mount

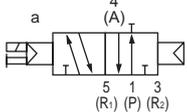
# M3GA1, 2, 3-(D)/M4GA1, 2, 3-(D) Series

● Applicable cylinder bore size:  $\phi 20$  to  $\phi 100$

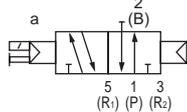


## JIS symbol

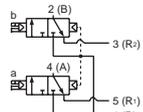
● 3-port valve  
2-position single NC



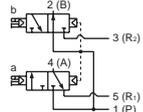
2-position single NO



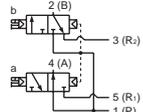
● Dual 3-port valve integrated  
(A side valve: NC, B side valve: NC)



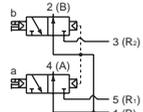
(A side valve: NC, B side valve: NO)



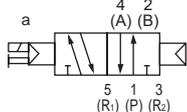
(A side valve: NO, B side valve: NC)



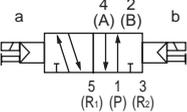
(A side valve: NO, B side valve: NO)



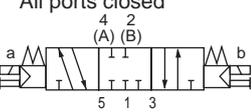
● 5-port valve  
2-position single



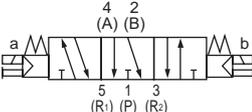
2-position double



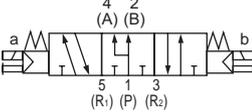
3-position  
All ports closed



3-position A/B/R connection



3 positions P/A/B connection



## Structure and material restriction

	Structure	Material restriction			Model No.
P7 Series	Dust generation preventing				— P70
	Dust generation preventing	Copper-based materials prohibited	Silicon-based materials prohibited	Halogen-based materials prohibited (fluorine, chlorine, bromine)	— P74 Custom order product

## Manifold common specifications

Item	Description	
Manifold	Integrated base	
Mounting method	Direct mount/DIN rail mount	
Air supply and exhaust method	Common supply/common exhaust (With internal exhaust check valve)	
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (Pilot exhaust check valve built-in)
	External pilot	Main valve/pilot valve individual exhaust
Piping direction	Valve top direction	
Valve and operation	Pilot operated soft spool valve	
Working fluid	Compressed air	
Max. working pressure MPa	0.7	
Min. working pressure MPa	0.2 (*3)	
Proof pressure MPa	1.05	
Ambient temperature °C	-5 to 55 (no freezing)	
Fluid temperature °C	5 to 55	
Manual override	Non-locking/locking common (standard)	
Lubrication (*1)	Not required	
Degree of protection (*2)	Dust-proof	
Vibration resistance m/s <sup>2</sup>	50 or less	
Shock resistance m/s <sup>2</sup>	300 or less	
Atmosphere	Cannot be used in corrosive gas environments	

\*1: Use turbine oil Class 1 ISO VG32 for lubrication. Excessive or intermittent lubrication results in unstable operation.  
\*2: Avoid water drops or oil, etc., during use. IP65 (water jet proof) applies for DIN terminal box specifications. However, the specified outer diameter of the cord and tightening torque must be used for fixing in place.  
\*3: The working pressure range is 0 to 0.7MPa when the external pilot (option code: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.

## Electrical specifications

Item	Description	Rated voltage					
		24 VDC	12 VDC	5 VDC	3 VDC	100 VAC	200 VAC
Rated voltage	V	24 VDC	12 VDC	5 VDC	3 VDC	100 VAC	200 VAC
Voltage fluctuation range		±10%					
Holding current	Standard	0.015 (0.017)	0.030 (0.034)	0.072 (0.082)	0.120 (0.136)	0.009 (0.009)	0.006 (0.006)
	A (*4) Low exoergic/energy-saving circuit built-in	0.005	0.010	-		-	
Power consumption	Standard	0.35 (0.40)		0.35 (0.40)		-	
	A (*4) Low exoergic/energy-saving circuit built-in	0.1		-		-	
Apparent power	Standard	-		-		0.93 (0.98)	1.40
	A (*4) (*5)	-		-		-	
Thermal class	B						
Surge suppressor	Option						
Indicator	Lamp (option)						

\*4: Values in ( ) apply when with lamp option. A of low exoergic/energy-saving circuit built-in is only available with a lamp attached.  
\*5: The value for 200 VAC applies DIN terminal box (with lamp).

# M3GA1, 2, 3/M4GA1, 2, 3 Series

Individual wiring manifold; body piping

## Individual specifications

Descriptions		M3GA1/M4GA1		M3GA2/M4GA2		M3GA3/M4GA3		
		Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount	
Max. station number	Standard (Internal pilot)	20 stations	16 stations	20 stations	16 stations	20 stations	16 stations	
	External pilot	12 stations	12 stations					
Port size	Rc thread, M5	A/B port	Barbed fitting $\phi 1.8$ Push-in fitting $\phi 1.8, \phi 4, \phi 6$ M5	Push-in fitting $\phi 4, \phi 6, \phi 8$ Rc1/8		Push-in fitting $\phi 6, \phi 8, \phi 10$ Rc1/4		
		P/R1/R2 port	Rc1/8	Rc1/4		Rc3/8		
	NPT thread, M5	A/B port	Push-in fitting $\phi 1.8$ inch, $\phi 5/32$ inch M5		Push-in fitting $\phi 1/4$ inch, $\phi 5/16$ inch 1/8NPT		Push-in fitting $\phi 5/16$ inch, $\phi 3/8$ inch 1/4NPT (*6)	
		P/R1/R2 port	1/8NPT		1/4NPT		3/8NPT (*6)	
	G thread, M5	A/B port	Push-in fitting $\phi 4, \phi 6$ M5		Push-in fitting $\phi 4, \phi 6, \phi 8$ G1/8		-	
		P/R1/R2 port	G1/8		G1/4		-	
Manifold base		Standard	23n + 52	25n + 60	47n + 64	49n + 92	74n + 88	76n + 117
Weight calculation formula (n: station No.)		g External pilot	36n + 105	38n + 113	88n + 135	90n + 163	136n + 194	138n + 223

\*6: This is a custom order product.

Refer to "Cautions for Mounting the DIN Rail" (page 754), and select the manifold.

For 10 or over manifold station No. (5 stations for 4G3), use ports on both side for air supply and exhaust.

The manifold base weight is the value for screw specifications.

## Performance/characteristics by model

Item		M3GA1		M3GA2		M3GA3		M4GA1		M4GA2		M4GA3		
		ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	
Response time ms	Two 3-port valves integrated	9	12	12	29	-	-	-	-	-	-	-	-	
	2 position	Single	12	12	19	19	25	28	12	12	19	19	25	28
		Double	-	-	-	-	-	-	9	-	18	-	24	-
	3 position	ABR connection	-	-	-	-	-	-	8	15	17	30	23	45

Values with lamp/surge suppressor are shown. The response times are values with working pressure of 0.5 MPa at 20°C, without lubrication. They depend on the pressure and the lubricant quality.

## Flow characteristics

Model No.	Solenoid position	P → A/B		A/B → R1/R2		
		C [dm <sup>3</sup> /(s·bar)]	b	C [dm <sup>3</sup> /(s·bar)]	b	
M3GA1 M4GA1	Dual 3-port valve integrated	0.86	0.31	1.1 (0.66)	0.19 (0.22)	
	2-position	0.99	0.20	1.2 (0.70)	0.20 (0.12)	
	3-position	All ports closed	0.94	0.23	1.1 -	0.20 -
		ABR connection	0.93	0.18	1.3 (0.70)	0.23 (0.02)
	PAB connection	1.1	0.28	1.1 -	0.23 -	
M3GA2 M4GA2	Dual 3-port valve integrated	1.7	0.40	2.3 (1.7)	0.29 (0.32)	
	2-position	2.3	0.36	2.9 (1.7)	0.24 (0.33)	
	3-position	All ports closed	2.1	0.35	2.5 -	0.32 -
		ABR connection	2.2	0.37	2.9 (1.8)	0.32 (0.29)
	PAB connection	2.4	0.34	2.5 -	0.33 -	
M3GA3 M4GA3	2-position	3.2	0.37	3.8 (2.5)	0.13 (0.28)	
	3-position	All ports closed	2.9	0.35	3.3 -	0.35 -
		ABR connection	3.0	0.34	3.8 (2.6)	0.12 (0.27)
		PAB connection	3.3	0.30	3.3 -	0.32 -

\*1: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .

\*2: Values in ( ) apply when the exhaust check valve attached.

Ozone proof specifications • Cutting oil prohibited specifications

This can be set by selecting option "A" of (E) in how to order on page 507.

# M4GA1/2/3 Series

Individual wiring manifold; body piping

## How to order

Manifold model No.

**M** 4GA1 **1** 0R - **C6** - **E2** **H** **D** - **3** - **P70**

3-port manifold model No.

**M** 3GA1 **1** 0R - **C6** - **E2** **H** **D** - **3** - **P70**

● Discrete valve for mounting base

4GA1 **1** 9R - **C6** - **E2** **H** - **3** - **P70**

● Discrete 3-port valve for mounting base

3GA1 **1** 9R - **C6** - **E2** **H** - **3** - **P70**

**B** Solenoid position

**A** Model No.

**I** Clean room specifications

**C** Port size

**D** Electrical connections

**E** Option

**F** Mount

**G** Station No.

**H** Voltage

\* Be sure to fill in the "manifold specifications" (pages 609 through 623).

		A Model No.					
		3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
<b>B Solenoid position</b>							
1	2-position single				●	●	●
2	2-position double				●	●	●
3	3-position all ports closed				●	●	●
4	3-position ABR connection				●	●	●
5	3-position P/A/B connection				●	●	●
1	2-position single normally closed (*1)	●	●	●			
11	2-position single normally open (*1)	●	●	●			
66	Dual 3-port valve integrated (*1, *2)	●	●				
67		●	●				
76		●	●				
77		●	●				
8	Mixed manifold (In case of multiple solenoid positions)	●	●	●	●	●	●

Code	Content	3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
<b>B Solenoid position</b>							
1	2-position single				●	●	●
2	2-position double				●	●	●
3	3-position all ports closed				●	●	●
4	3-position ABR connection				●	●	●
5	3-position P/A/B connection				●	●	●
1	2-position single normally closed (*1)	●	●	●			
11	2-position single normally open (*1)	●	●	●			
66	Dual 3-port valve integrated (*1, *2)	●	●				
67		●	●				
76		●	●				
77		●	●				
8	Mixed manifold (In case of multiple solenoid positions)	●	●	●	●	●	●

<b>C Port size</b>							
Port	4 (A)/2 (B) port	P/R1/R2 port (2)=Rc1/8 (3)=Rc1/4 (4)=Rc3/8					
CF	ø1.8 barbed fitting (applicable tube UP-9102-**) (2)			(2)			
C18	ø1.8 push-in fitting (applicable tube UP-9402-**) (2)			(2)			
C4	ø4 push-in fitting (2)	(3)		(2)	(3)		
C6	ø6 push-in fitting (2)	(3)	(4)	(2)	(3)	(4)	
C8	ø8 push-in fitting (3)	(4)		(3)	(4)		
C10	ø10 push-in fitting (4)			(4)		(4)	
CX	Push-in fitting mix (*3) (2)	(3)	(4)	(2)	(3)	(4)	
M5	M5 (2)			(2)			
06	Rc1/8 (3)			(3)			
08	Rc1/4 (4)			(4)			(4)
Port	4 (A)/2 (B) port	P/R1/R2 port (5)=1/8NPT (3)=1/4NPT (4)=3/8NPT					
C3N	ø1/8 inch push-in fitting (5)			(5)			
C4N	ø5/32 inch push-in fitting (5)			(5)			
C6N	ø1/4 inch push-in fitting (6)			(6)		(6)	
C8N	ø5/16 inch push-in fitting (6)	(7)		(6)	(7)		
C10N	ø3/8 inch push-in fitting (7)			(7)		(7)	
CXN	Push-in fitting mix (*3) (5)	(6)	(7)	(5)	(6)	(7)	
M5N	M5 (5)			(5)			
06N	1/8NPT (6)			(6)			
08N	1/4NPT (*4) (7)			(7)			(7)
Port	4 (A)/2 (B) port	P/R1/R2 port (8)=G1/8 (9)=G1/4					
C4G	ø4 push-in fitting (8)	(9)		(8)	(9)		
C6G	ø6 push-in fitting (8)	(9)		(8)	(9)		
C8G	ø8 push-in fitting (9)	(10)		(9)	(10)		
C10G	ø10 push-in fitting (10)			(10)		(10)	
CXG	Push-in fitting mix (*3) (8)	(9)	(10)	(8)	(9)	(10)	
M5G	M5 (8)			(8)			
06G	G1/8 (9)			(9)		(9)	
08G	G1/4 (10)			(10)		(10)	

## ⚠ Precautions for model No. selection

- \*1: Select M4GA\*80R when mixing with the 3, 5-port valves. Select M3GA\*80R when mixing with the masking plate.
- \*2: Combination with the external pilot (K) is not available. Dimensions are the same as the respective 2-position double solenoid.
- \*3: The push-in fitting cannot be mixed with the discrete valve's 4 (A) or 2 (B) port.
- \*4: Custom order product.

# M4GA1/2/3 Series

Individual wiring manifold; body piping

		A Model No.					
		3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
<b>D Electrical connections</b>							
Blank	Grommet lead wire (300 mm) (*12)	●	●	●	●	●	●
B	DIN terminal box (Pg7) with surge suppressor/lamp (*13)(*15)		●	●			●
BN	DIN terminal box (Pg7) (no terminal box) with surge suppressor (*13)(*15)		●	●		●	●
E connector (up/lateral common)							
E0	Lead wire (300 mm) (*14)	●	●	●	●	●	●
E00	Lead wire (500 mm) (*14)	●	●	●	●	●	●
E01	Lead wire (1000 mm) (*14)	●	●	●	●	●	●
E02	Lead wire (2000 mm) (*14)	●	●	●	●	●	●
E03	Lead wire (3000 mm) (*14)	●	●	●	●	●	●
E0N	Without lead wire (without socket) (*14)	●	●	●	●	●	●
E1	Without lead wire (with socket/terminal) (*14)	●	●	●	●	●	●
E2	Lead wire (300 mm) with surge suppressor/lamp	●	●	●	●	●	●
E20	Lead wire (500 mm) with surge suppressor/lamp	●	●	●	●	●	●
E21	Lead wire (1000 mm) with surge suppressor/lamp	●	●	●	●	●	●
E22	Lead wire (2000 mm) with surge suppressor/lamp	●	●	●	●	●	●
E23	Lead wire (3000 mm) with surge suppressor/lamp	●	●	●	●	●	●
E2N	Without lead wire (without socket) with surge suppressor/lamp	●	●	●	●	●	●
E3	Without lead wire (with socket/terminal) with surge suppressor/lamp	●	●	●	●	●	●
EJ connector (socket with cover, up/lateral common)							
E01J	Lead wire (1000 mm) (*14)	●	●	●	●	●	●
E02J	Lead wire (2000 mm) (*14)	●	●	●	●	●	●
E03J	Lead wire (3000 mm) (*14)	●	●	●	●	●	●
E21J	Lead wire (1000 mm) with surge suppressor/lamp	●	●	●	●	●	●
E22J	Lead wire (2000 mm) with surge suppressor/lamp	●	●	●	●	●	●
E23J	Lead wire (3000 mm) with surge suppressor/lamp	●	●	●	●	●	●
<b>E Option</b>							
Blank	Non-locking and locking model shared manual override	●	●	●	●	●	●
M	Non-locking manual override	●	●	●	●	●	●
H	With exhaust check valve (*5)	●	●	●	●	●	●
K	External pilot (*6)	●	●	●	●	●	●
A	Ozone/cutting oil compatible	●	●	●	●	●	●
S	Surgeless (*7)	●	●	●	●	●	●
E	Low exoergic/energy-saving circuit (*7) (*8)	●	●	●	●	●	●
F	Built-in A/B port filter (*9)	●	●	●	●	●	●
Z1	Air supply spacer (*10)	●	●	●	●	●	●
Z3	Exhaust spacer (*10)	●	●	●	●	●	●
<b>F Mount</b>							
Blank	Direct mount	●	●	●	●	●	●
D	DIN rail mount	●	●	●	●	●	●
<b>G Station No.</b>							
2	2 stations						
to	to	●	●	●	●	●	●
20	Refer to page 505 for the maximum station number for each model.						
<b>H Voltage</b>							
1	100 VAC (with rectifier circuit)	●	●	●	●	●	●
2	200 VAC (with rectifier circuit) (*11)		●	●	●	●	●
3	24 VDC	●	●	●	●	●	●
4	12 VDC	●	●	●	●	●	●
7	3 VDC	○	○	○	○	○	○
8	5 VDC	○	○	○	○	○	○
<b>I Clean room specifications (*15, 16, 17)</b>							
	Structure	Material restriction					
P70	Exhaust treatment	-					
P74	Exhaust treatment	Copper-/silicon-/halogen-based materials (fluorine, chlorine, bromine) are prohibited.	○	○	○	○	○

is not available.

○ Custom order products. Contact CKD for details.

\*5: 3-position all ports closed and P/A/B connection are not provided with the exhaust check valve (H).

Refer to page 751 for details on the exhaust check.

\*6: Contact CKD when using a vacuum with the external pilot (K).

\*7: Only E2\* and E2\*J connectors and 12/24 VDC are supported.

In addition, selecting a combination of surgeless "S" and the low exoergic/energy-saving circuit "E" is not allowed.

Electrical connections	
Discrete valve/individual wiring manifold	
Blank	Grommet lead wire
E1	E connector with socket/terminal
E3	
● Lead wire length	300 mm
E0	E connector
E2	DIN terminal box
● Lead wire length	300 mm 500 mm 1000 mm 2000 mm 3000 mm
E0N	E connector without socket
E2N	DIN terminal box (no terminal box)
E0*J	EJ connector
E2*J	
● Lead wire length	1 m 2 m 3 m

\*8: Applicable to surgeless specifications

\*9: P port is equipped with a filter as standard.

\*10: The mounting position and the quantity of spacers should be specified in the manifold specifications of each catalog. Stacking multiple spacers is not supported. Combination with the masking plate is not supported. Refer to pages 592 to 595 for details.

\*11: Supported only for the DIN terminal box.

\*12: The grommet lead wire specifications are only applicable to DC voltages.

\*13: AC voltage and 12/24 VDC are supported. The lamp is incorporated in the terminal box.

\*14: AC voltage is provided with a rectifier circuit.

\*15: The terminal box is a EN175301-803Type C (old DIN 43650-C) compliant product. Refer to page 756 for details.

\*16: A (ozone compatible) and 1 clean room specifications P74 cannot be combined.

\*17: Copper-, silicon-, and halogen-free specifications are available as main valve part support.

\*18: P74 Series is a custom order product.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# M4GA1 Series

Individual wiring manifold; body piping

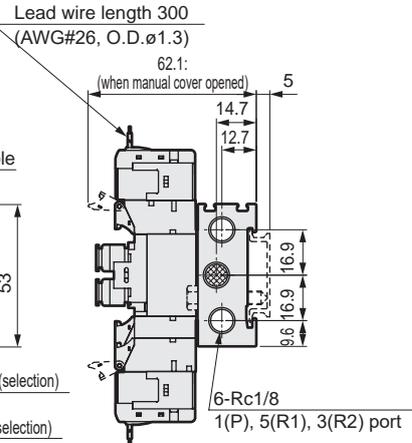
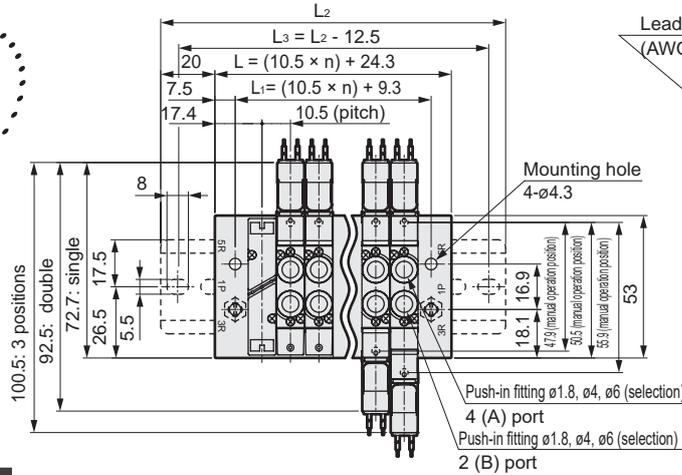
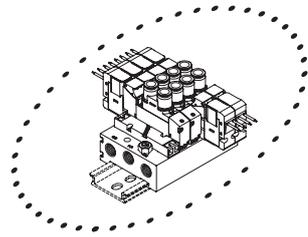
## Dimensions



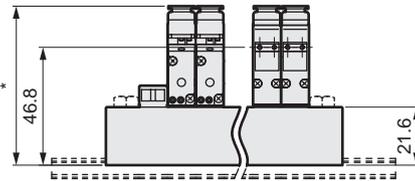
### M4GA1-P7\*

- Grommet lead wire (blank)

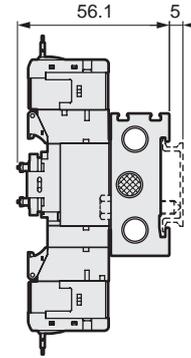
- \* For 2-position single 3-port valve, port A or port B is a plug.
- In addition, the dual 3-port valve integrated has the same dimensions as the double model.
- \* Refer to page 755 for details on mounting holes.



Push-in fitting bore size	*Dimensions
ø1.8	54
ø4	58
ø6	59.2
ø1/8 inch	58.5
ø5/32 inch	58



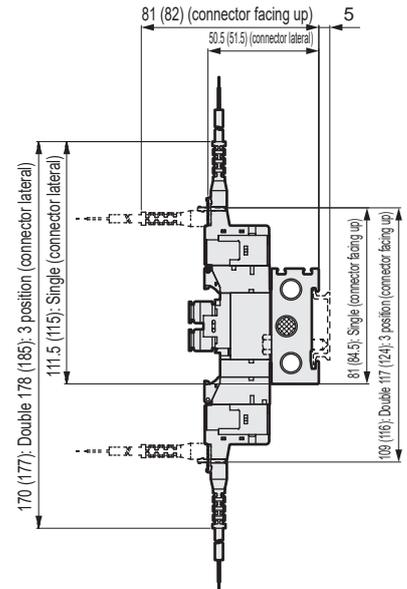
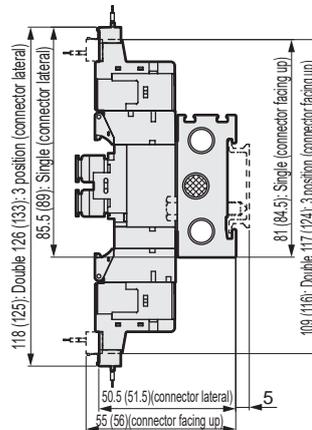
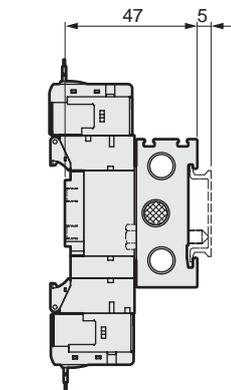
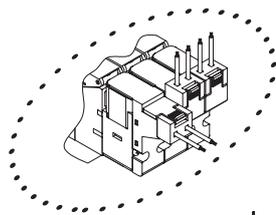
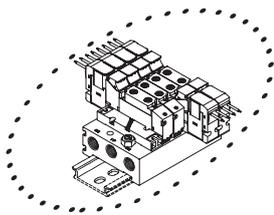
- ø1.8 barbed fitting (CF)



- EJ connector (E \*\* J)

- M5 female thread (M5)

- E connector (E)



Note: Values in ( ) are applicable to AC voltages.

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	45.3	55.8	66.3	76.8	87.3	97.8	108.3	118.8	129.3	139.8	150.3	160.8	171.3	181.8	192.3	202.8	213.3	223.8	234.3
L1	30.3	40.8	51.3	61.8	72.3	82.8	93.3	103.8	114.3	124.8	135.3	145.8	156.3	166.8	177.3	187.8	198.3	208.8	219.3
L2	87.5	100.0	112.5	125.0	137.5	150.0	150.0	162.5	175.0	187.5	200.0	212.5	212.5	225.0	237.5				
L3	75.0	87.5	100.0	112.5	125.0	137.5	137.5	150.0	162.5	175.0	187.5	200.0	200.0	212.5	225.0				

# M4GA1 Series

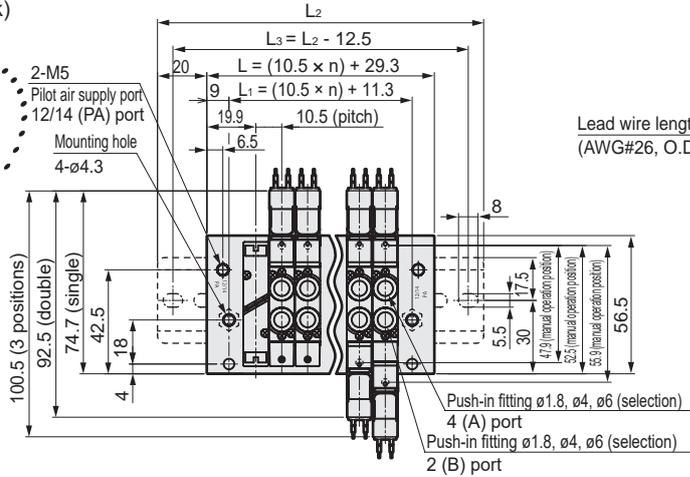
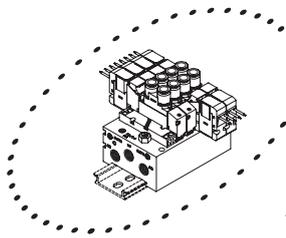
Individual wiring manifold; body piping

## Dimensions

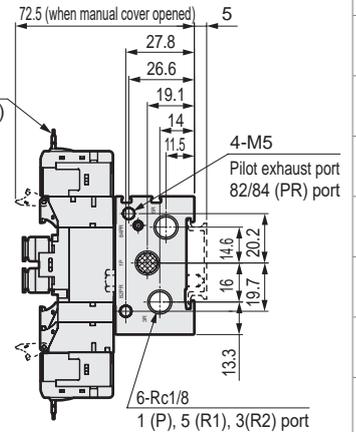


### M4GA1-P7\*

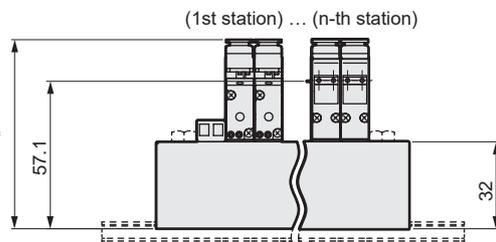
- External pilot (K)  
Grommet lead wire (blank)



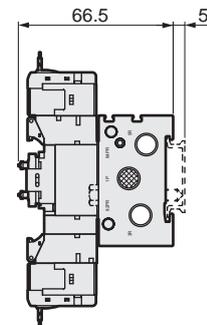
- \* For 2-position single 3-port valve, port A or port B is a plug.
- \* Refer to page 755 for details on mounting holes.



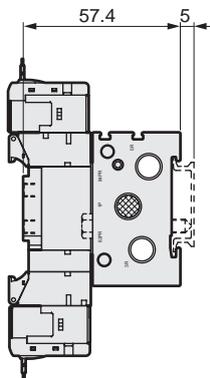
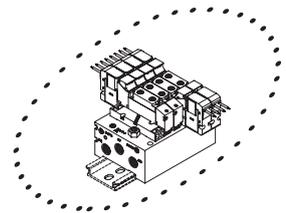
Push-in fitting bore size	*Dimensions
ø1.8	64.4
ø4	68.4
ø6	69.6
ø1/8 inch	68.9
ø5/32 inch	68.4



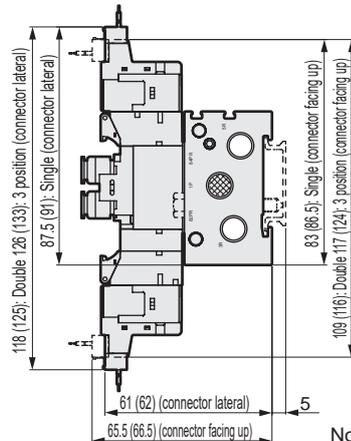
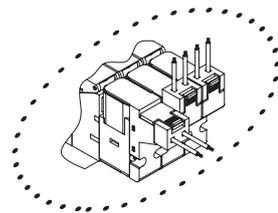
- ø1.8 barbed fitting (CF)



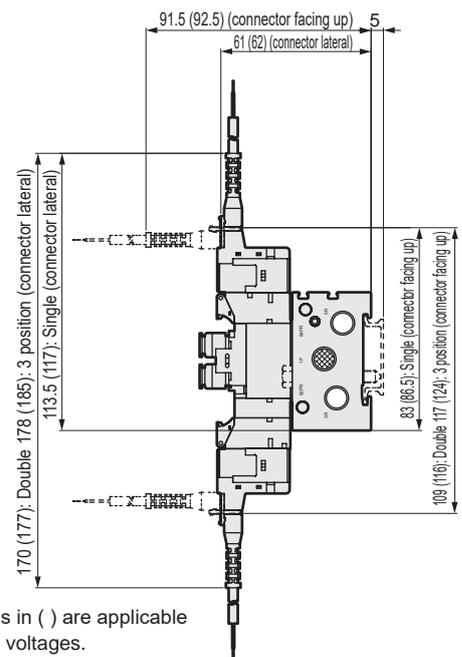
- External pilot (K)  
M5 female thread (M5)



- External pilot (K)  
E connector (E)



- External pilot (K)  
EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

Station No.	2	3	4	5	6	7	8	9	10	11	12
L	50.3	60.8	71.3	81.8	92.3	102.8	113.3	123.8	134.3	144.8	155.3
L1	32.3	42.8	53.3	63.8	74.3	84.8	95.3	105.8	116.3	126.8	137.3
L2	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0
L3	87.5	100.0	100.0	112.5	125.0	137.5	150.0	162.5	162.5	175.0	187.5

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge

Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# M4GA2 Series

Individual wiring manifold; body piping

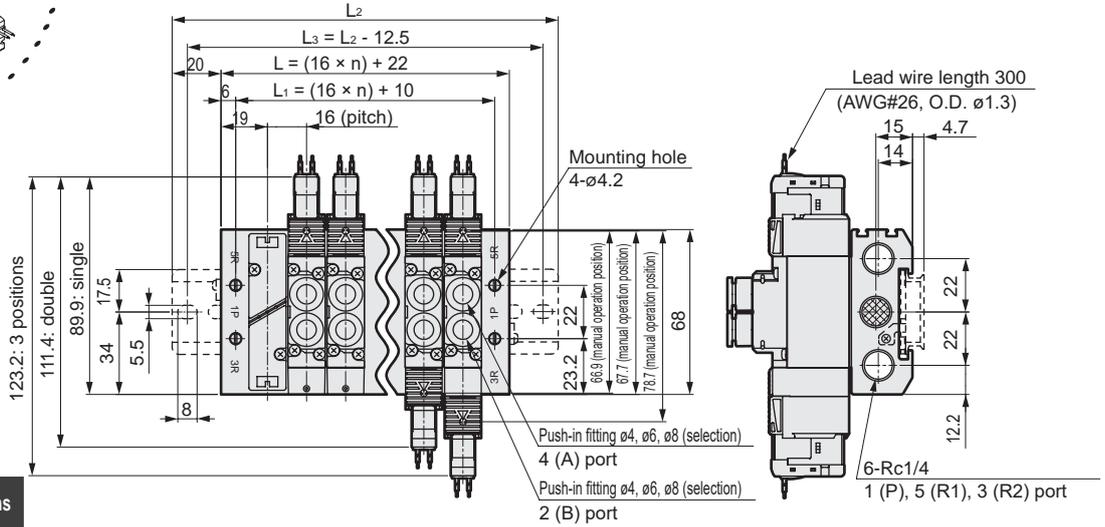
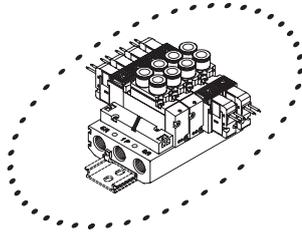
## Dimensions



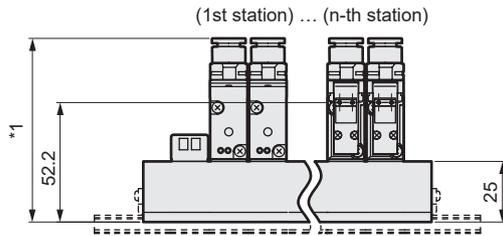
### M4GA2-P7\*

● Grommet lead wire (blank)

\* For 2-position single 3-port valve, port A or port B is a plug. In addition, the dual 3-port valve integrated has the same dimensions as the double model.  
\* Refer to page 754 for details on mounting holes.

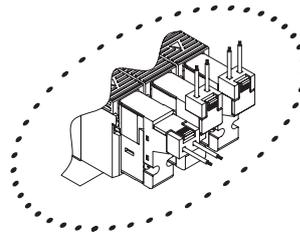
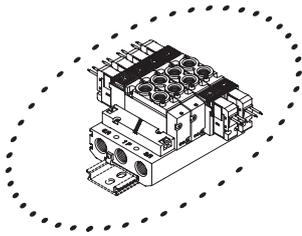


Push-in fitting bore size	*1 Dimensions
ø4	76
ø6	
ø8	
ø1/4 inch	76.9
ø5/16 inch	76.2

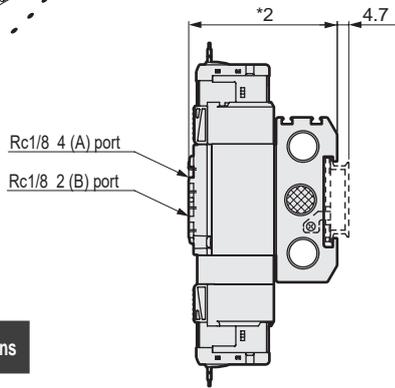


● Rc1/8 female thread (06)

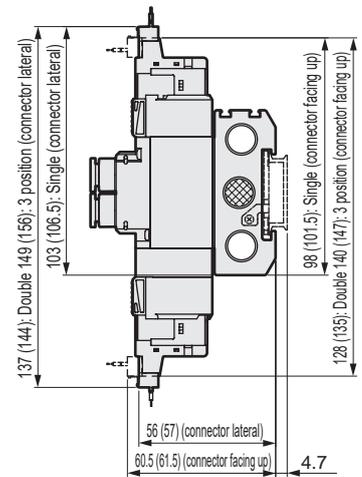
● E connector (E)



Note: Values in ( ) are applicable to AC voltages.



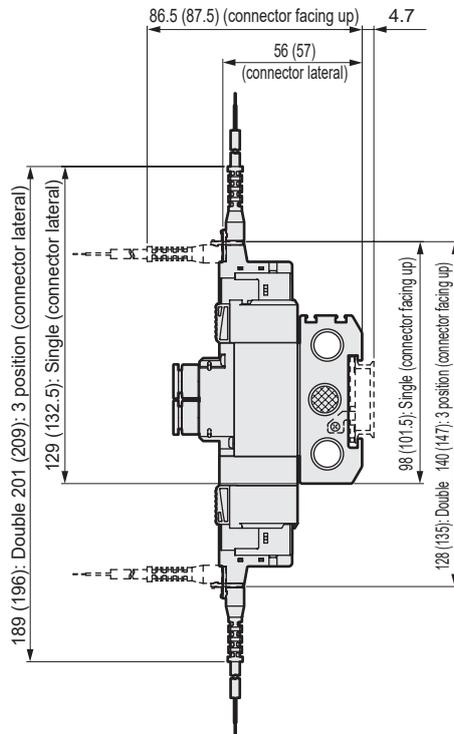
Female thread size	*2 Dimensions
Rc1/8	60.8
1/8NPT	62.1
G1/8	



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	54.0	70.0	86.0	102.0	118.0	134.0	150.0	166.0	182.0	198.0	214.0	230.0	246.0	262.0	278.0	294.0	310.0	326.0	342.0
L1	42.0	58.0	74.0	90.0	106.0	122.0	138.0	154.0	170.0	186.0	202.0	218.0	234.0	250.0	266.0	282.0	298.0	314.0	330.0
L2	100.0	112.5	137.5	150.0	162.5	175.0	200.0	212.5	225.0	250.0	262.5	275.0	287.5	312.5	325.0				
L3	87.5	100.0	125.0	137.5	150.0	162.5	187.5	200.0	212.5	237.5	250.0	262.5	275.0	300.0	312.5				

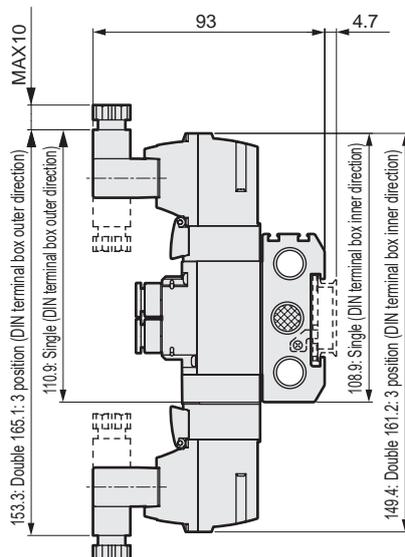
### Dimensions

● EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

● DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# M4GA2 Series

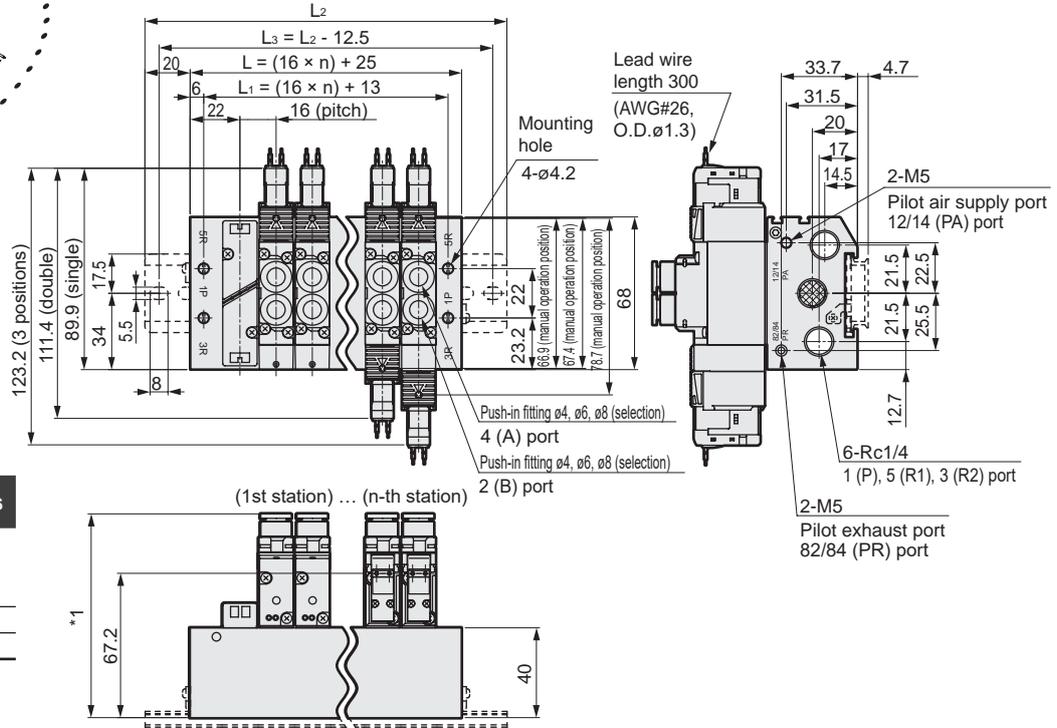
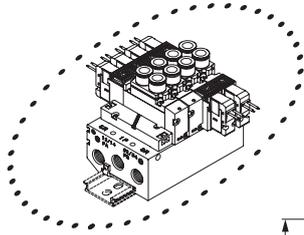
Individual wiring manifold; body piping

## Dimensions

### M4GA2-P7\*

- External pilot (K)  
Grommet lead wire (blank)

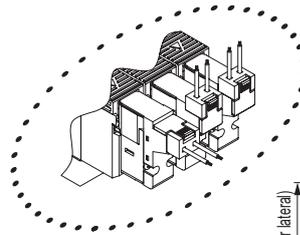
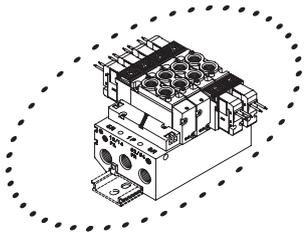
\* For 2-position single 3-port valve, port A or port B is a plug.  
\* Refer to page 754 for details on mounting holes.



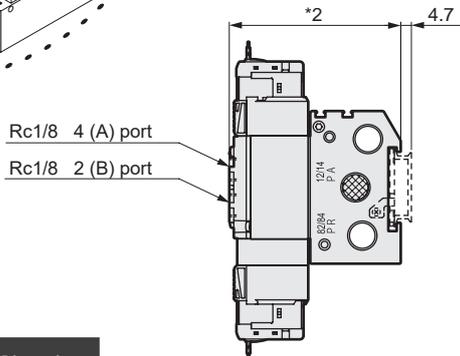
Push-in fitting bore size	*1 Dimensions
$\phi 4$	91
$\phi 6$	
$\phi 8$	
$\phi 1/4$ inch	91.9
$\phi 5/16$ inch	91.2

- External pilot (K)  
Rc1/8 female thread (06)

- External pilot (K)  
E connector E



Note: Values in ( ) are applicable to AC voltages.

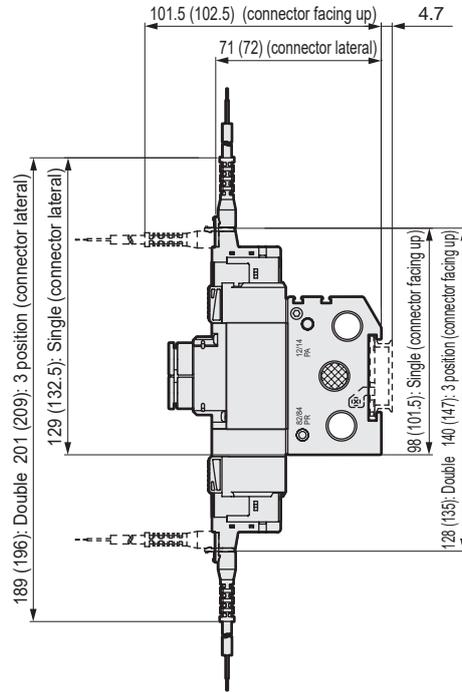


Female thread size	*2 Dimensions
Rc1/8	75.8
1/8NPT	77.1
G1/8	

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	57.0	73.0	89.0	105.0	121.0	137.0	153.0	169.0	185.0	201.0	217.0	233.0	249.0	265.0	281.0	297.0	313.0	329.0	345.0
L1	45.0	61.0	77.0	93.0	109.0	125.0	141.0	157.0	173.0	189.0	205.0	221.0	237.0	253.0	269.0	285.0	301.0	317.0	333.0
L2	100.0	125.0	137.5	150.0	162.5	187.5	200.0	212.5	225.0	250.0	262.5	275.0	300.0	312.5	325.0				
L3	87.5	112.5	125.0	137.5	150.0	175.0	187.5	200.0	212.5	237.5	250.0	262.5	287.5	300.0	312.5				

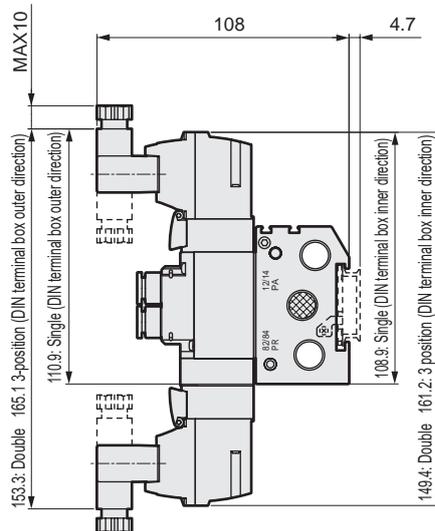
## Dimensions

- External pilot (K)  
EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

- External pilot (K)  
DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# M4GA3 Series

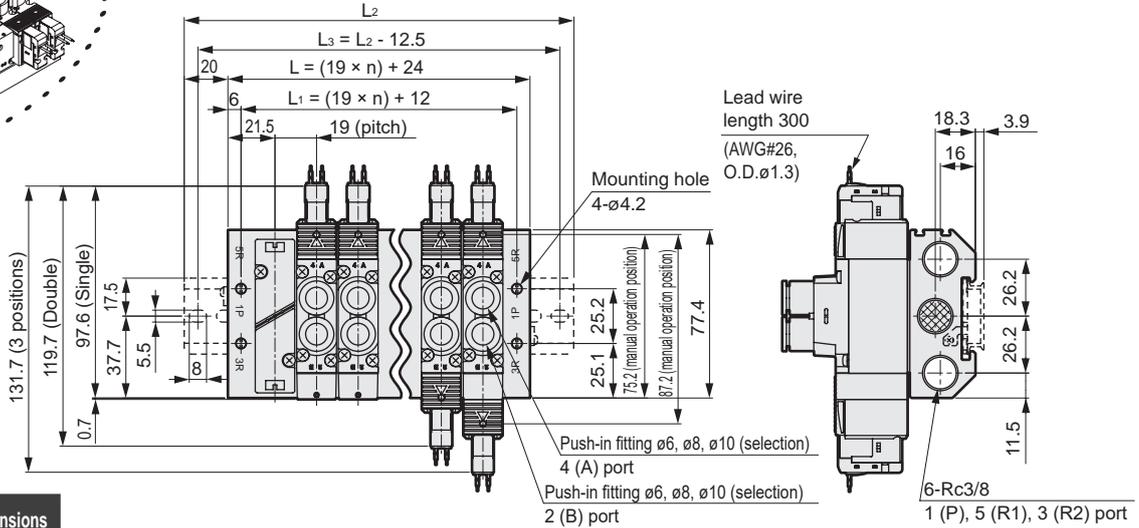
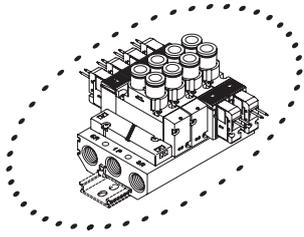
Individual wiring manifold; body piping

## Dimensions

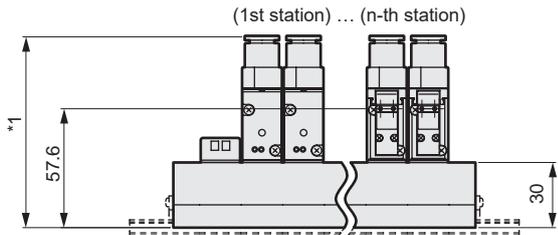
### M4GA3-P7\*

- Grommet lead wire (blank)

\* For 2-position single 3-port valve, port A or port B is a plug.  
\* Refer to page 754 for details on mounting holes.

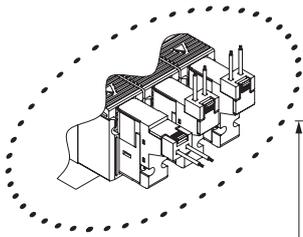
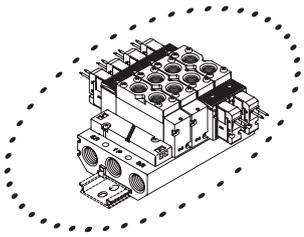


Push-in fitting bore size	*1 Dimensions
$\phi 6$	82.8
$\phi 8$	88.3
$\phi 10$	89
$\phi 5/16$ inch	92.2
$\phi 3/8$ inch	

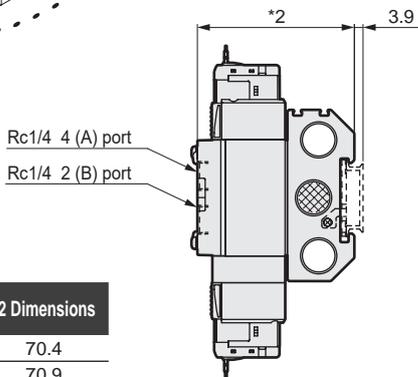


- Rc1/4 female thread (08)

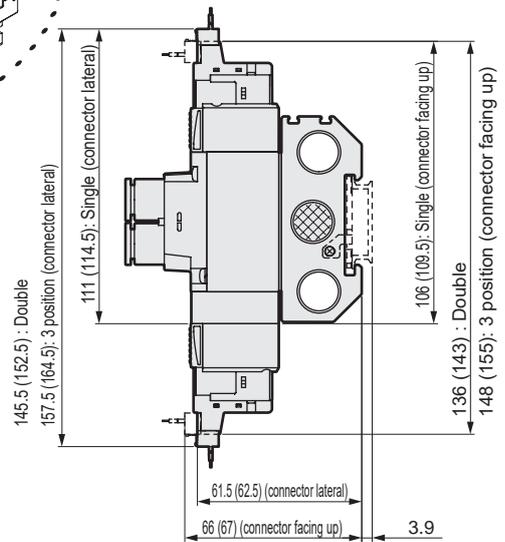
- E connector (E)



Note: Values in ( ) are applicable to AC voltages.



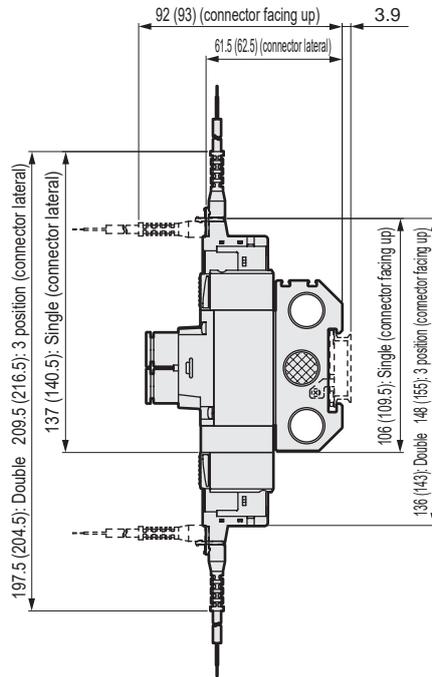
Female thread size	*2 Dimensions
Rc1/4	70.4
1/4NPT	70.9
G1/4	70.9



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	62.0	81.0	100.0	119.0	138.0	157.0	176.0	195.0	214.0	233.0	252.0	271.0	290.0	309.0	328.0	347.0	366.0	385.0	404.0
L1	50.0	69.0	88.0	107.0	126.0	145.0	164.0	183.0	202.0	221.0	240.0	259.0	278.0	297.0	316.0	335.0	354.0	373.0	392.0
L2	112.5	125.0	150.0	162.5	187.5	200.0	225.0	237.5	262.5	275.0	300.0	312.5	337.5	350.0	375.0				
L3	100.0	112.5	137.5	150.0	175.0	187.5	212.5	225.0	250.0	262.5	287.5	300.0	325.0	337.5	362.5				

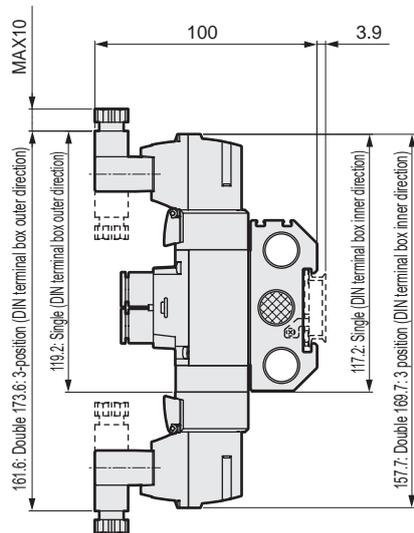
### Dimensions

- EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.

- DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

**M4GA/B**

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# M4GA3 Series

Individual wiring manifold; body piping

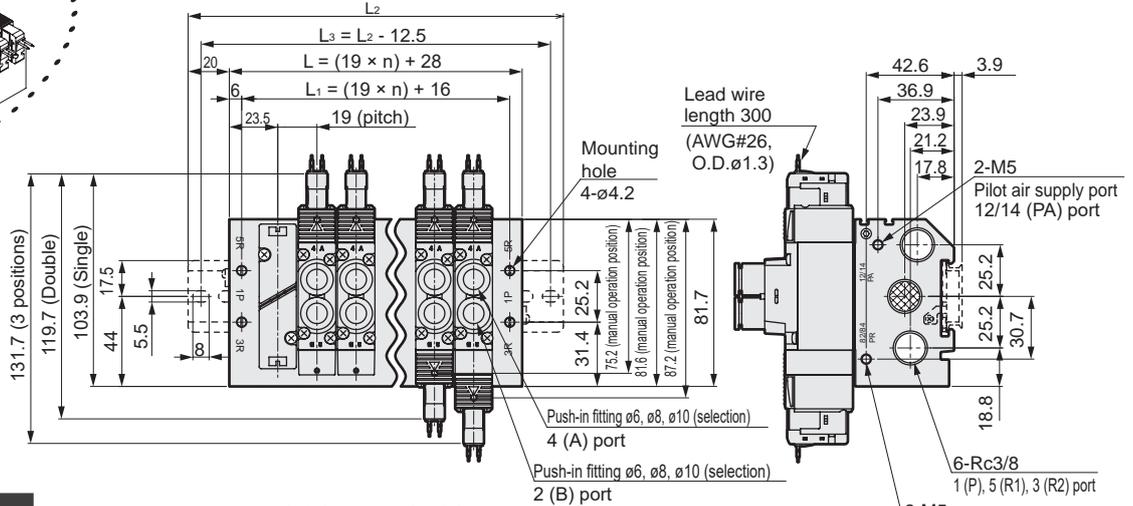
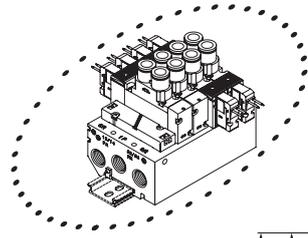
## Dimensions



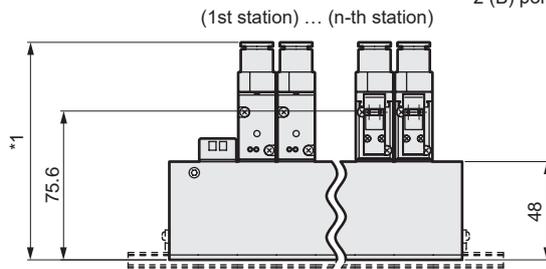
### M4GA3-P7\*

- External pilot (K)  
Grommet lead wire (blank)

- \* For 2-position single 3-port valve, port A or port B is a plug.
- \* Refer to page 754 for details on mounting holes.

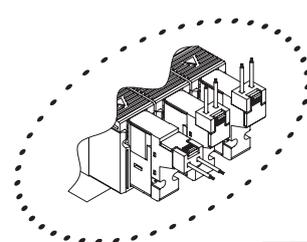
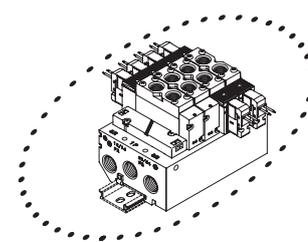


Push-in fitting bore size	*1 Dimensions
ø6	100.8
ø8	106.3
ø10	107
ø5/16 inch	107
ø3/8 inch	110.2

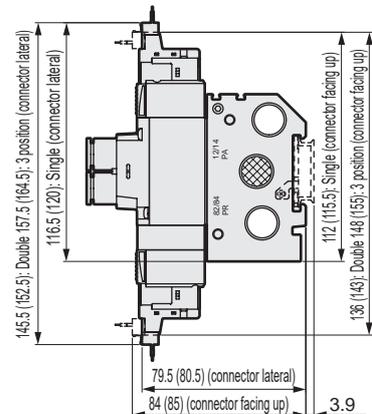
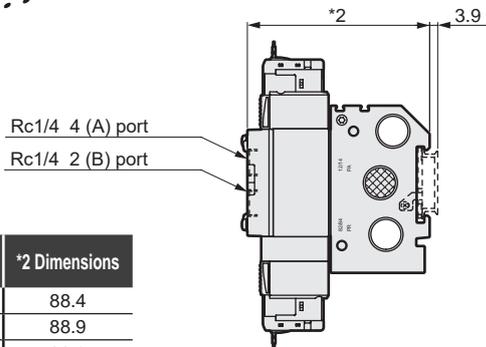


- External pilot (K)  
Rc1/4 female thread (08)

- External pilot (K)  
E connector (E)



Note: Values in ( ) are applicable to AC voltages.

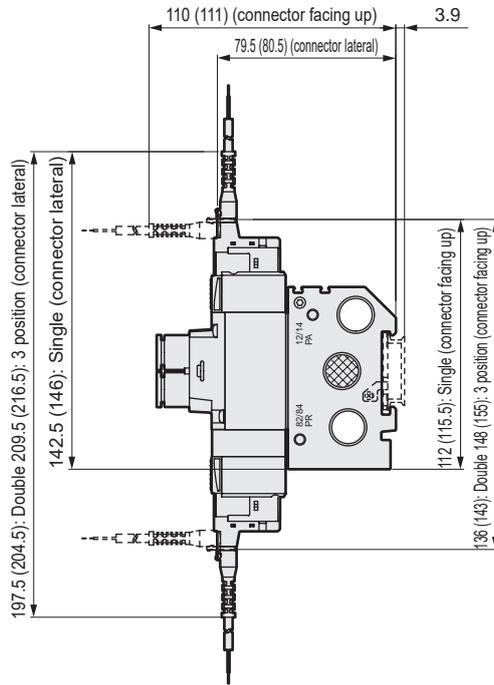


Female thread size	*2 Dimensions
Rc1/4	88.4
1/4NPT	88.9
G1/4	88.9

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	66.0	85.0	104.0	123.0	142.0	161.0	180.0	199.0	218.0	237.0	256.0	275.0	294.0	313.0	332.0	351.0	370.0	389.0	408.0
L1	54.0	73.0	92.0	111.0	130.0	149.0	168.0	187.0	206.0	225.0	244.0	263.0	282.0	301.0	320.0	339.0	358.0	377.0	396.0
L2	112.5	125.0	150.0	175.0	187.5	212.5	225.0	250.0	262.5	287.5	300.0	325.0	337.5	362.5	375.0				
L3	100.0	112.5	137.5	162.5	175.0	200.0	212.5	237.5	250.0	275.0	287.5	312.5	325.0	350.0	362.5				

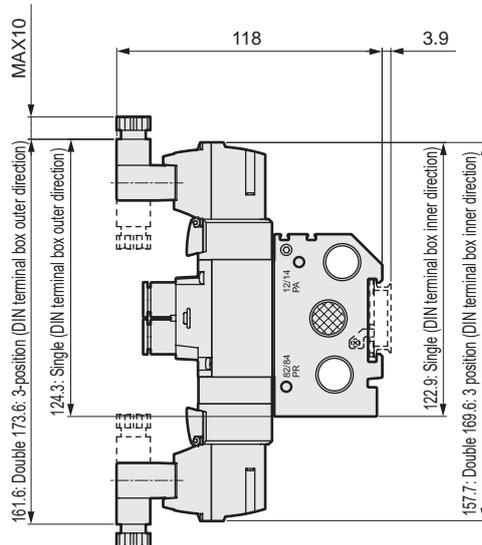
## Dimensions

- External pilot (K)  
EJ connector (E\*\*J)



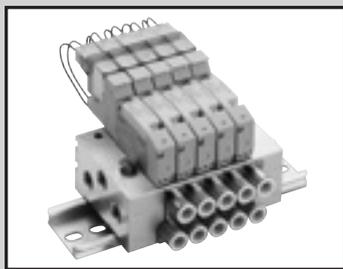
Note: Values in ( ) are applicable to AC voltages.

- External pilot (K)  
DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
<b>M4GA/B</b>
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending



Individual wiring manifold  
Base piping  
Direct mount DIN rail mount

# M3GB1, 2/M4GB1, 2, 3-(D) Series

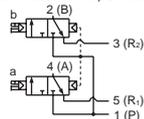
● Applicable cylinder bore size:  $\varnothing 20$  to  $\varnothing 100$



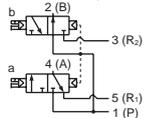
- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder switch
- MN3E  
MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R (module unit)
- Clean F.R
- Precision R
- Press gauge  
Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/  
tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

## JIS symbol

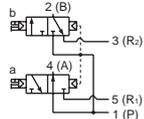
● Dual 3-port valve integrated  
(A side valve: NC, B side valve: NC)



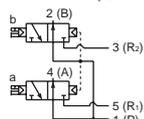
(A side valve: NC, B side valve: NO)



(A side valve: NO, B side valve: NC)

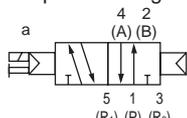


(A side valve: NO, B side valve: NO)

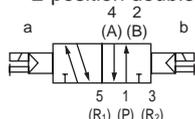


● 5-port valve

2-position single

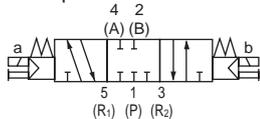


2-position double

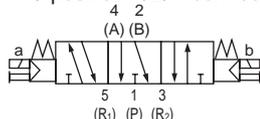


3-position

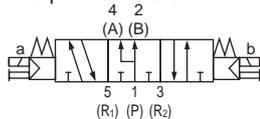
All ports closed



3-position A/B/R connection



3 positions P/A/B connection



## Structure and material restriction

	Structure	Material restriction			Model No.
P7 Series	Dust generation preventing				— P70
	Dust generation preventing	Copper-based materials prohibited	Silicon-based materials prohibited	Halogen-based materials prohibited (fluorine, chlorine, bromine)	— P74 Custom order product

## Manifold common specifications

Item	Description	
Manifold	Integrated base	
Mounting method	Direct mount/DIN rail mount	
Air supply and exhaust method	Common supply/common exhaust (With internal exhaust check valve)	
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (Pilot exhaust check valve built-in)
	External pilot	Main valve/pilot valve individual exhaust
Piping direction	Valve top direction	
Valve and operation	Pilot operated soft spool valve	
Working fluid	Compressed air	
Max. working pressure MPa	0.7	
Min. working pressure MPa	0.2 (*3)	
Proof pressure MPa	1.05	
Ambient temperature °C	-5 to 55 (no freezing)	
Fluid temperature °C	5 to 55	
Manual override	Non-locking/locking common (standard)	
Lubrication (*1)	Not required	
Degree of protection (*2)	Dust-proof	
Vibration resistance m/s <sup>2</sup>	50 or less	
Shock resistance m/s <sup>2</sup>	300 or less	
Atmosphere	Cannot be used in corrosive gas environments	

\*1: Use turbine oil Class 1 ISO VG32 for lubrication. Excessive or intermittent lubrication results in unstable operation.

\*2: Avoid water drops or oil, etc., during use. IP65 (water jet proof) applies for DIN terminal box specifications. However, the specified outer diameter of the cord and tightening torque must be used for fixing in place.

\*3: The working pressure range is 0 to 0.7MPa when the external pilot (option code: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.

## Electrical specifications

Descriptions							
Rated voltage	V	DC 24	DC 12	DC 5	DC 3	AC 100	AC 200
Voltage fluctuation range		±10%					
Holding current A	Standard	0.015 (0.017)	0.030 (0.034)	0.072 (0.082)	0.120 (0.136)	0.009 (0.009)	0.006 (0.006)
	Low exoergic/energy-saving circuit built-in	0.005	0.010	-	-	-	-
Power consumption W	Standard	0.35 (0.40)		0.35 (0.40)		-	
	Low exoergic/energy-saving circuit built-in	0.1		-		-	
Apparent power VA	(*4) (*5)	-		-		0.93 (0.98)	1.40
		-		-		-	
Thermal class		B					
Surge suppressor		Option					
Indicator		Lamp (option)					

\*4: Values in ( ) apply when with lamp option. A type of low exoergic/energy-saving circuit built-in is only available with a lamp attached.

\*5: The value for 200 VAC applies DIN terminal box (with lamp).

# M3GB1, 2/M4GB1, 2, 3 Series

Individual wiring manifold; base piping

## Individual specifications

Descriptions		M3GB1/M4GB1		M3GB2/M4GB2		M4GB3		
		Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount	
Max. station number	Standard (Internal pilot)	20 stations	16 stations	20 stations	16 stations	20 stations	16 stations	
	External pilot	12 stations	12 stations					
Port size	Rc thread, M5	A/B port	Barbed fitting $\phi 1.8$ Push-in fitting $\phi 1.8, \phi 4, \phi 6, \phi 8$ (*6) M5	Push-in fitting $\phi 4, \phi 6, \phi 8, \phi 10$ (*6) Rc1/8	Push-in fitting $\phi 6, \phi 8, \phi 10$ Rc1/4			
		P/R1/R2 port	Rc1/8	Rc1/4	Rc3/8			
	NPT thread, M5	A/B port	Push-in fitting $\phi 1/8$ inch, $\phi 5/32$ inch M5	Push-in fitting $\phi 1/4$ inch, $\phi 5/16$ inch 1/8NPT	Push-in fitting $\phi 5/16$ inch, $\phi 3/8$ inch 1/4NPT (*6)			
		P/R1/R2 port	1/8NPT	1/4NPT	3/8NPT (*6)			
	G thread, M5	A/B port	Push-in fitting $\phi 4, \phi 6$ M5	Push-in fitting $\phi 4, \phi 6, \phi 8$ G1/8	-			
		P/R1/R2 port	G1/8	G1/4	-			
Manifold base Weight calculation formula (n: station No.) g		Standard	35n + 61	36n + 115	71n + 106	73n + 134	113n + 170	115n + 119
		External pilot	35n + 106	36n + 114	76n + 135	78n + 166	118n + 194	120n + 223

Refer to "Cautions for Mounting the DIN Rail" (page 754), and select the manifold.

For 10 or over manifold station No. (5 stations for 4G3), use ports on both side for air supply and exhaust. The manifold base weight is the value for screw specifications.

\*6: This is a custom order product.

## Performance/characteristics by model

Item			M3GB1/M4GB1		M3GB2/M4GB2		M4GB3	
			ON	OFF	ON	OFF	ON	OFF
Response time ms	Two 3-port valves integrated		9	12	12	29	-	-
	2-position	Single	12	12	19	19	25	28
		Double	9	-	18	-	24	-
	3-position	ABR connection	8	15	17	30	23	45

Values with a lamp/surge suppressor are shown. The response times are values with working pressure of 0.5 MPa at 20°C, without lubrication. They depend on the pressure and the lubricant quality.

## Flow characteristics

Model No.	Solenoid position	P→A/B		A/B→R1/R2		
		C [dm <sup>3</sup> /(s·bar)]	b	C [dm <sup>3</sup> /(s·bar)]	b	
M3GB1 M4GB1	Dual 3-port valve integrated		0.86	0.35	1.1 (0.67)	0.22 (0.23)
	2-position		1.1	0.22	1.2 (0.70)	0.20 (0.10)
	3-position	All ports closed	0.98	0.22	1.1 -	0.24 -
		ABR connection	0.97	0.35	1.3 (0.68)	0.22 (0.24)
	PAB connection	1.1	0.38	1.1 -	0.21 -	
M3GB2 M4GB2	Dual 3-port valve integrated		1.7	0.44	2.1 (1.6)	0.32 (0.30)
	2-position		2.4	0.34	2.7 (1.7)	0.24 (0.31)
	3-position	All ports closed	2.2	0.34	2.4 -	0.29 -
		ABR connection	2.2	0.34	2.8 (1.8)	0.24 (0.27)
PAB connection		2.4	0.29	2.4 -	0.29 -	
M4GB3	2-position		3.5	0.34	3.8 (2.6)	0.11 (0.27)
	3-position	All ports closed	3.1	0.33	3.3 -	0.22 -
		ABR connection	3.0	0.30	3.8 (2.7)	0.11 (0.22)
		PAB connection	3.6	0.36	3.3 -	0.28 -

\*1: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .

\*2: Values in ( ) apply when the exhaust check valve is attached.

Ozone proof specifications • Cutting oil prohibited specifications

This can be set by selecting option "A" of (E) in how to order on page 521.

# M4GB1/2/3 Series

Individual wiring manifold; base piping

## How to order

Manifold model No.

**M** 4GB1 **1** 0R - **C6** - **E2** **H** **D** - **3** - **P70**

3-port manifold model No.

**M** 3GB1 **66** 0R - **C6** - **E2** **H** **D** - **3** - **P70**

● Discrete valve for mounting base

**4GB1** **1** 9R - **00** - **E2** **H** - **3** - **P70**

● 3-port discrete valve for mounting base

**3GB1** **66** 9R - **00** - **E2** **H** - **3** - **P70**

**B** Solenoid position

**I** Clean room specifications

**A** Model No.

**C** Port size  
\*3  
\*4

**D** Electrical connections

**E** Option

**F** Mount

**G** Station No.

**H** Voltage

## ⚠ Precautions for model No. selection

\*1: Select M4GB\*80R when mixing with the 3, 5-port valves. Select M3GB\*80R when mixing with the masking plate.

\*2: Combinations with an external pilot (K) are not supported. In addition, the external dimensions are the same dimensions as each of the 2-position double solenoids.

\*3: CL\* radial push-in fitting will only support single solenoid manifolds. The configuration comprises an A port: long elbow, and B port: short elbow.

\*4: A/B port sizes do not differ for the radial push-in fitting (facing up/down).

\*5: Both C8 for 4G1 and C10 for 4G2 do not support push-in fitting mix.

\*6: Custom order product.

\* Be sure to fill in the "manifold specifications" (pages 609 through 623).

A Model No.				
3GB1	3GB2	4GB1	4GB2	4GB3

Code	Content	3GB1	3GB2	4GB1	4GB2	4GB3
<b>B Solenoid position</b>						
1	2-position single			●	●	●
2	2-position double			●	●	●
3	3-position all ports closed			●	●	●
4	3-position ABR connection			●	●	●
5	3-position P/A/B connection			●	●	●
66	Dual 3-port valve integrated (*1, *2)	A side valve: Normally closed B side valve: Normally closed	●	●		
67			A side valve: Normally closed B side valve: Normally open	●	●	
76		A side valve: Normally open B side valve: Normally closed		●	●	
77			A side valve: Normally open B side valve: Normally open	●	●	
8	Mixed manifold (In case of multiple solenoid positions)	●	●	●	●	●

<b>C Port size</b>						
Port	4(A)/2(B) port	P/R1/R2 port (2)=Rc1/8 (3)=Rc1/4 (4)=Rc3/8				
CF	ø1.8 barbed fitting (applicable tube UP-9102-**) (2)	(2)	(2)			
C18	ø1.8 push-in fitting (applicable tube UP-9402-**) (2)	(2)	(2)			
C4	ø4 push-in fitting (2) (3) (2) (3)	(2)	(3)	(2)	(3)	
C6	ø6 push-in fitting (2) (3) (2) (3) (4)	(2)	(3)	(2)	(3)	(4)
C8	ø8 push-in fitting (*5, *6) (2) (3) (2) (3) (4)	(2)	(3)	(2)	(3)	(4)
C10	ø10 push-in fitting (*5, *6) (3) (3) (3) (4)	(3)	(3)	(3)	(4)	
CL18	ø1.8 radial facing-up push-in fitting (applicable tube UP-9402-**) (2)	(2)				
CL4	ø4 radial facing-up push-in fitting (2) (2)	(2)				
CL6	ø6 radial facing-up push-in fitting (2) (3) (3)	(2)	(3)			
CL8	ø8 radial facing-up push-in fitting (3) (4)			(3)	(4)	
CL10	ø10 radial facing-up push-in fitting (4)				(4)	
CD18	ø1.8 radial facing-down push-in fitting (applicable tube UP-9402-**) (2)	(2)	(2)			
CD4	ø4 radial facing-down push-in fitting (2) (2)	(2)	(2)			
CD6	ø6 radial facing-down push-in fitting (2) (3) (2) (3)	(2)	(3)	(2)	(3)	
CD8	ø8 radial facing-down push-in fitting (3) (3) (3) (4)		(3)	(3)	(3)	(4)
CD10	ø10 radial facing-down push-in fitting (4)				(4)	
CX	Push-in fitting mix (2) (3) (2) (3) (4)	(2)	(3)	(2)	(3)	(4)
M5	M5 (2) (2)	(2)	(2)			
06	Rc1/8 (3) (3)		(3)	(3)		
08	Rc1/4 (4)				(4)	
Port	4(A)/2(B) port	P/R1/R2 port (5)=1/8NPT (6)=1/4NPT (7)=3/8NPT				
C3N	ø1/8 inch push-in fitting (5) (5)	(5)	(5)			
C4N	ø5/32 inch push-in fitting (5) (5)	(5)	(5)			
C6N	ø1/4 inch push-in fitting (6) (6) (6)		(6)	(6)	(6)	
C8N	ø5/16 inch push-in fitting (6) (6) (6) (7)		(6)	(6)	(6)	(7)
C10N	ø3/8 inch push-in fitting (7)				(7)	
CL3N	ø1/8 inch radial facing-up push-in fitting (*6) (5) (5)			(5)	(5)	
CL4N	ø5/32 inch radial facing-up push-in fitting (*6) (5) (5)			(5)	(5)	
CL6N	ø1/4 inch radial facing-up push-in fitting (*6) (6) (6)			(6)	(6)	
CL8N	ø5/16 inch radial facing-up push-in fitting (*6) (6) (6) (7)			(6)	(6)	(7)
CXN	Push-in fitting mix (5) (6) (5) (6) (7)	(5)	(6)	(5)	(6)	(7)
M5N	M5 (5) (5)	(5)	(5)			
06N	1/8NPT (6) (6) (6)		(6)	(6)	(6)	
08N	1/4NPT (*6) (7)				(7)	
Port	4(A)/2(B) port	P/R1/R2 port (8)=G1/8 (9)=G1/4 (10)=G3/8				
C4G	ø4 push-in fitting (8) (9) (8) (9)	(8)	(9)	(8)	(9)	
C6G	ø6 push-in fitting (8) (9) (8) (9)	(8)	(9)	(8)	(9)	
C8G	ø8 push-in fitting (9) (9) (10)		(9)	(9)	(10)	
C10G	ø10 push-in fitting (10)				(10)	
CL4G	ø4 radial facing-up push-in fitting (*6) (8) (8)			(8)	(8)	
CL6G	ø6 radial facing-up push-in fitting (*6) (8) (9)			(8)	(9)	
CL8G	ø8 radial facing-up push-in fitting (*6) (9) (9)			(9)	(9)	
CXG	Push-in fitting mix (8) (9) (8) (9) (10)	(8)	(9)	(8)	(9)	(10)
M5G	M5 (8) (8)	(8)	(8)			
06G	G1/8 (9) (9) (9)		(9)	(9)	(9)	
08G	G1/4 (10)				(10)	
00	Discrete valve for mounting base	●	●	●	●	●

# M4GB1/2/3 Series

Individual wiring manifold; base piping

		A Model No.				
		3GB1	3GB2	4GB1	4GB2	4GB3
<b>D Electrical connections</b>						
Blank	Grommet lead wire (300 mm)	(*15)	●	●	●	●
B	DIN terminal box (Pg7) with surge suppressor/lamp	(*16)(*18)	●	●	●	●
BN	DIN terminal box (Pg7) (no terminal box) with surge suppressor	(*16)(*18)	●	●	●	●
E connector (up/lateral common)						
E0	Lead wire (300 mm)	(*17)	●	●	●	●
E00	Lead wire (500 mm)	(*17)	●	●	●	●
E01	Lead wire (1000 mm)	(*17)	●	●	●	●
E02	Lead wire (2000 mm)	(*17)	●	●	●	●
E03	Lead wire (3000 mm)	(*17)	●	●	●	●
E0N	Without lead wire (without socket)	(*17)	●	●	●	●
E1	Without lead wire (with socket/terminal)	(*17)	●	●	●	●
E2	Lead wire (300 mm) with surge suppressor/lamp		●	●	●	●
E20	Lead wire (500 mm) with surge suppressor/lamp		●	●	●	●
E21	Lead wire (1000 mm) with surge suppressor/lamp		●	●	●	●
E22	Lead wire (2000 mm) with surge suppressor/lamp		●	●	●	●
E23	Lead wire (3000 mm) with surge suppressor/lamp		●	●	●	●
E2N	Without lead wire (without socket) with surge suppressor/lamp		●	●	●	●
E3	Without lead wire (with socket/terminal) with surge suppressor/lamp		●	●	●	●
EJ connector (socket with cover, up/lateral common)						
E01J	Lead wire (1000 mm)	(*17)	●	●	●	●
E02J	Lead wire (2000 mm)	(*17)	●	●	●	●
E03J	Lead wire (3000 mm)	(*17)	●	●	●	●
E21J	Lead wire (1000 mm) with surge suppressor/lamp		●	●	●	●
E22J	Lead wire (2000 mm) with surge suppressor/lamp		●	●	●	●
E23J	Lead wire (3000 mm) with surge suppressor/lamp		●	●	●	●
<b>E Option</b>						
Blank	Non-locking and locking model shared manual override		●	●	●	●
M	Non-locking manual override		●	●	●	●
H	With exhaust check valve	(*7)	●	●	●	●
K	External pilot	(*8)	●	●	●	●
A	Ozone/cutting oil compatible		●	●	●	●
S	Surgeless	(*9)	●	●	●	●
E	Low exoergic/energy-saving circuit	(*9, 10)	●	●	●	●
F	Built-in A/B port filter	(*11)	●	●	●	●
Z1	Air supply spacer	(*12)	●	●	●	●
Z3	Exhaust spacer	(*12)	●	●	●	●
<b>F Mount</b>						
Blank	Direct mount	(*13)	●	●	●	●
D	DIN rail mount		●	●	●	●
<b>G Station No.</b>						
2	2 stations		●	●	●	●
to	to		●	●	●	●
20	Refer to page 519 for the max. station number per port size.		●	●	●	●
<b>H Voltage</b>						
1	100 VAC (with rectifier circuit)		●	●	●	●
2	200 VAC (with rectifier circuit)	(*14)	●	●	●	●
3	24 VDC		●	●	●	●
4	12 VDC		●	●	●	●
7	3 VDC		○	○	○	○
8	5 VDC		○	○	○	○
<b>I Clean room specifications (*18, 19, 20)</b>						
	Structure	Material restriction				
P70	Exhaust treatment	-	●	●	●	●
P74	Exhaust treatment	Copper-/silicon-/halogen-based materials (fluorine, chlorine, bromine) are prohibited.	○	○	○	○

is not available. ○ Custom order products. Contact CKD for details.

\*7: 3-position all ports closed and PAB connection are not provided with the exhaust check valve (H). Refer to page 751 for details on the exhaust check valve.

\*8: Contact CKD when using a vacuum with the external pilot (K).

\*9: Only E2\* and E2\*J connectors and 12/24 VDC are supported. In addition, selecting a combination of surgeless "S" and the low-heat-generating/power-saving circuit "E" is not allowed.

\*10: Applicable to surgeless specifications

\*11: P port is equipped with a filter as standard.

\*12: Specify the spacer mounting position and quantity in manifold specifications. Stacking multiple spacers is not supported. Combination with the masking plate is not supported. Refer to pages 592 to 595 for details.

\*13: When purchasing the direct mount of M4GB1, it cannot be changed to the DIN rail mount afterward.

\*14: Supported only for DIN terminal box.

\*15: The grommet lead wire specifications are only applicable to DC voltages.

\*16: AC voltage and 12/24 VDC are supported. The lamp is incorporated in the terminal box.

\*17: For AC voltage, a rectifier circuit is equipped.

\*18: Terminal box is EN175301-803Type C (old DIN 43650-C) compliant product. Refer to page 756 for details.

\*19: A (ozone compatible) and ① clean room specifications P74 cannot be combined.

\*20: Specifications which do not allow copper-based/silicon-based/halogen-based materials apply to the main valve section.

\*21: P74 Series is a custom order product.

Electrical connections		SCPD3
Discrete valve/individual wiring manifold		SCM
Blank	Grommet lead wire	SSD2
	E1 E connector with socket/terminal	MDC2
E0 E2	E connector	SMG
	B DIN terminal box	LCM
E0N E2N	E connector without socket	LCR
	BN DIN terminal box (no terminal box)	LCG
E0*J E2*J	EJ connector	LCX
		STM
		STG
		STR2
		MRL2
		GRC
		Cylinder Switch
		MN3E MN4E
		4GA/B
		M4GA/B
		MN4GA/B
		F.R. (module unit)
		Clean F.R
		Precision R
		Press gauge Diff. press gauge
		Electro-pneumatic R
		Speed controller
		Auxiliary valve
		Fitting/tube
		Clean air unit
		Pressure sensor
		Flow rate sensor
		Valve for air blow
		Ending

# M4GB1 Series

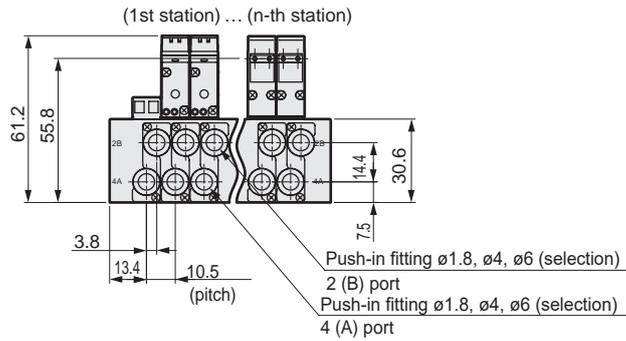
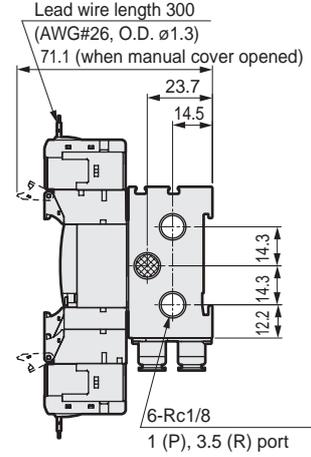
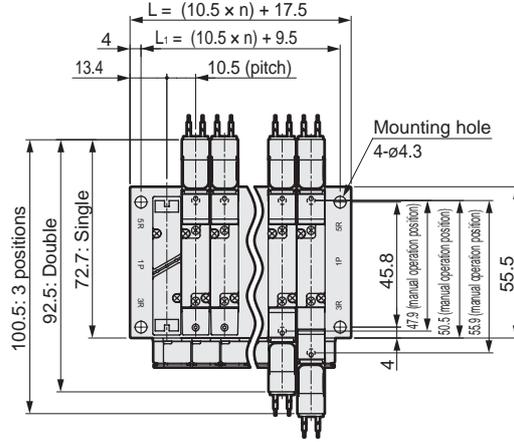
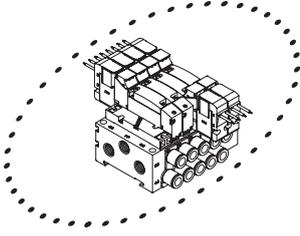
Individual wiring manifold; base piping

## Dimensions



### M4GB1-P7\*

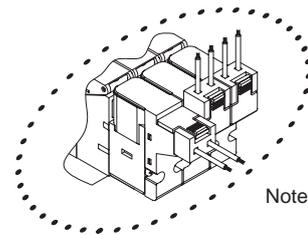
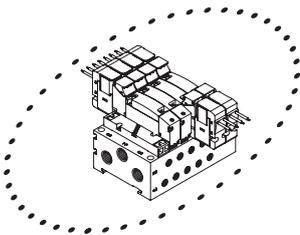
- Direct mount installation
- Grommet lead wire (blank)



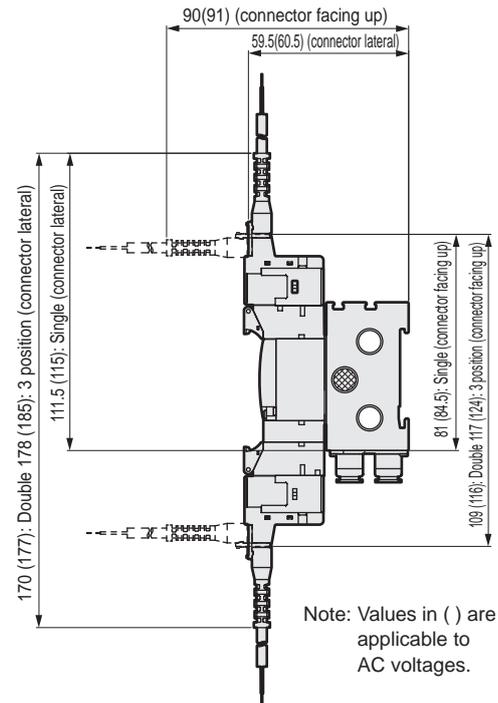
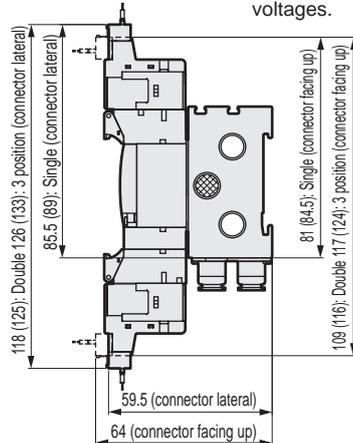
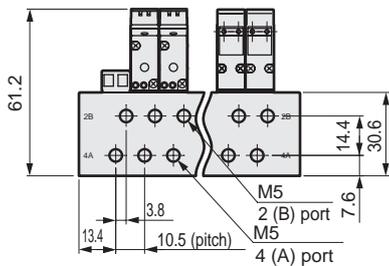
- M5 female thread (M5)

- E connector (E)

- EJ connector (E\*\*J)



Note: Values in ( ) are applicable to AC voltages.



Note: Values in ( ) are applicable to AC voltages.

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	38.5	49.0	59.5	70.0	80.5	91.0	101.5	112.0	122.5	133.0	143.5	154.0	164.5	175.0	185.5	196.0	206.5	217.0	227.5
L1	30.5	41.0	51.5	62.0	72.5	83.0	93.5	104.0	114.5	125.0	135.5	146.0	156.5	167.0	177.5	188.0	198.5	209.0	219.5

# M4GB1-D Series

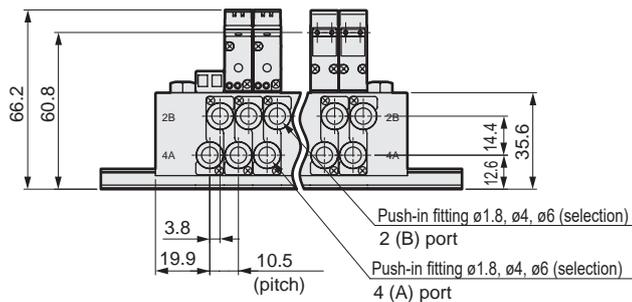
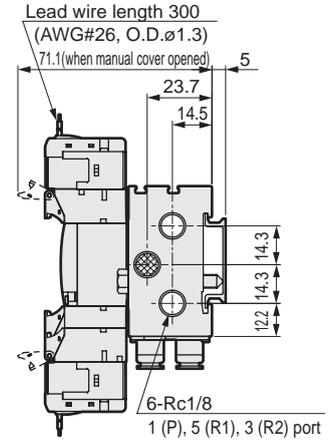
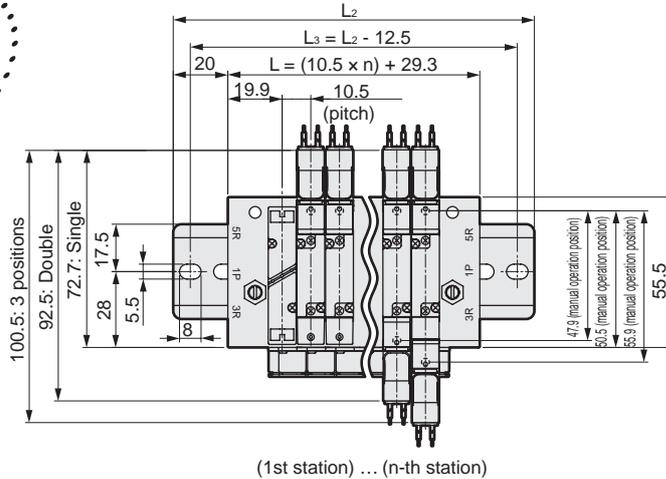
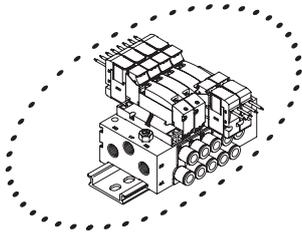
Individual wiring manifold; base piping

## Dimensions

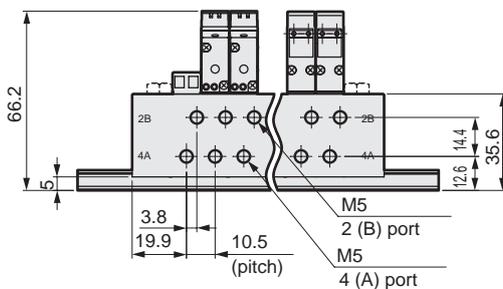
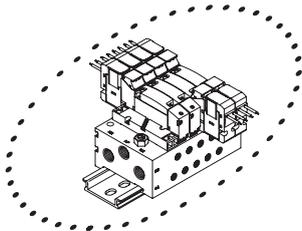


### M4GB1-P7\*

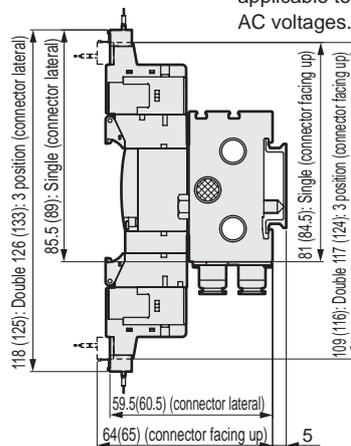
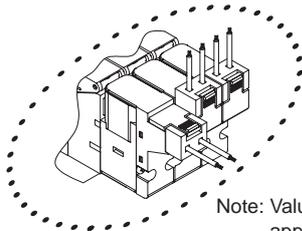
- DIN rail mounting (D)  
Grommet lead wire (blank)



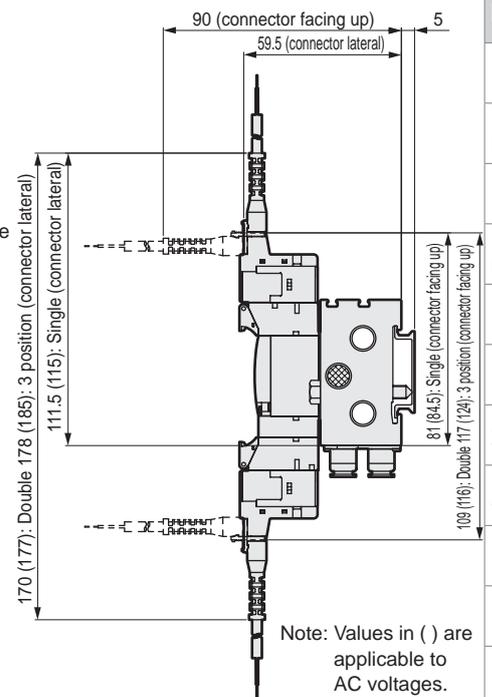
- DIN rail mounting (D)  
M5 female thread (M5)



- DIN rail mounting (D)  
E connector (E)



- EJ connector (E\*\*J)



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	50.3	60.8	71.3	81.8	92.3	102.8	113.3	123.8	134.3	144.8	155.3	165.8	176.3	186.8	197.3
L <sub>2</sub>	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0	212.5	225.0	237.5	237.5
L <sub>3</sub>	87.5	100.0	100.0	112.5	125.0	137.5	150.0	162.5	162.5	175.0	187.5	200.0	212.5	225.0	225.0

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# M4GB1 Series

Individual wiring manifold; base piping

## Dimensions

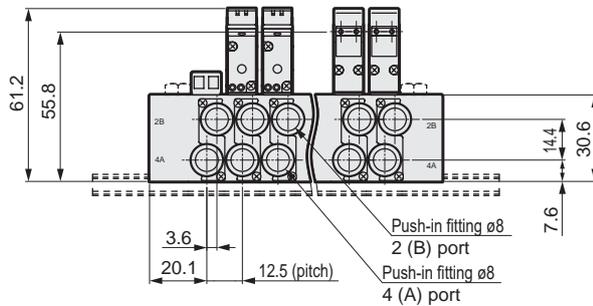
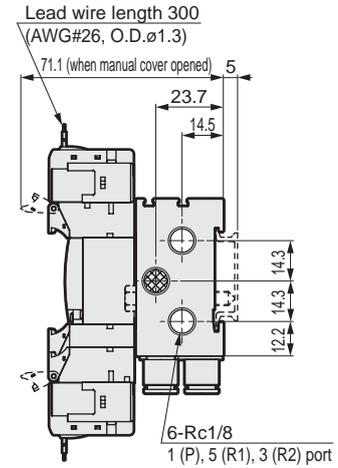
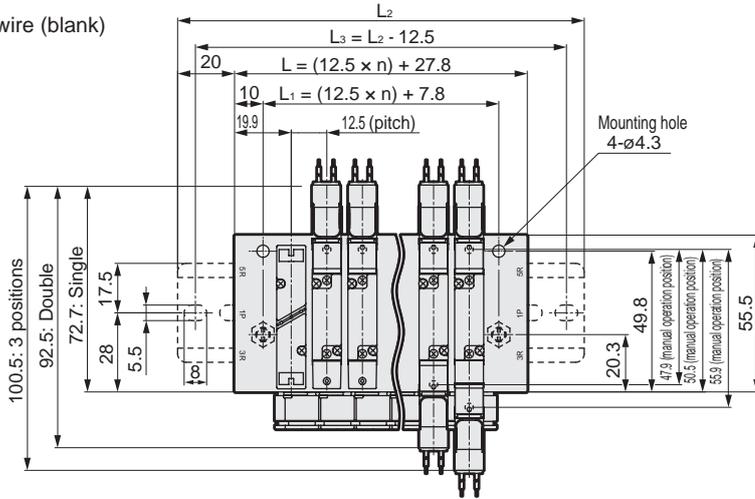


### M4GB1-C8-P7\*

Note: This is a dedicated manifold base.

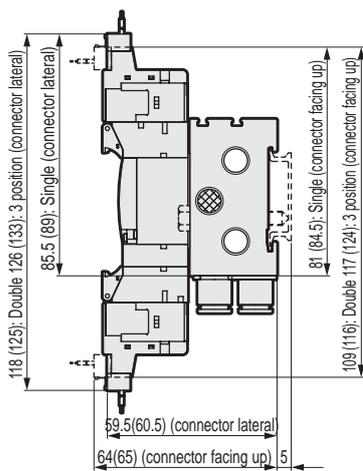
\*Refer to page 755 for details on mounting holes.

● Grommet lead wire (blank)

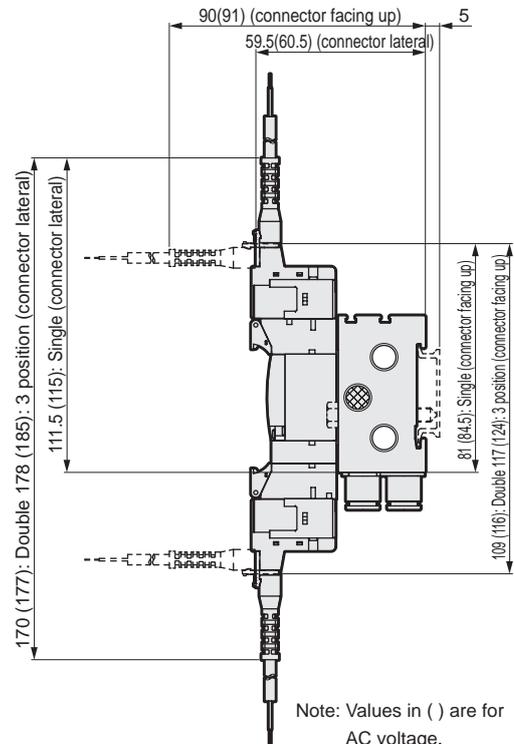


● E connector (E)

● EJ connector (E\*\*J)



Note: Values in ( ) are for AC voltage.



Note: Values in ( ) are for AC voltage.

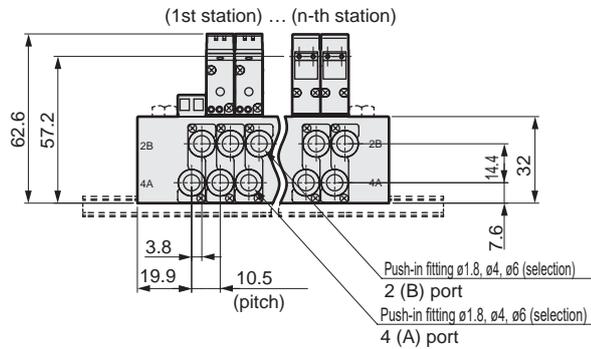
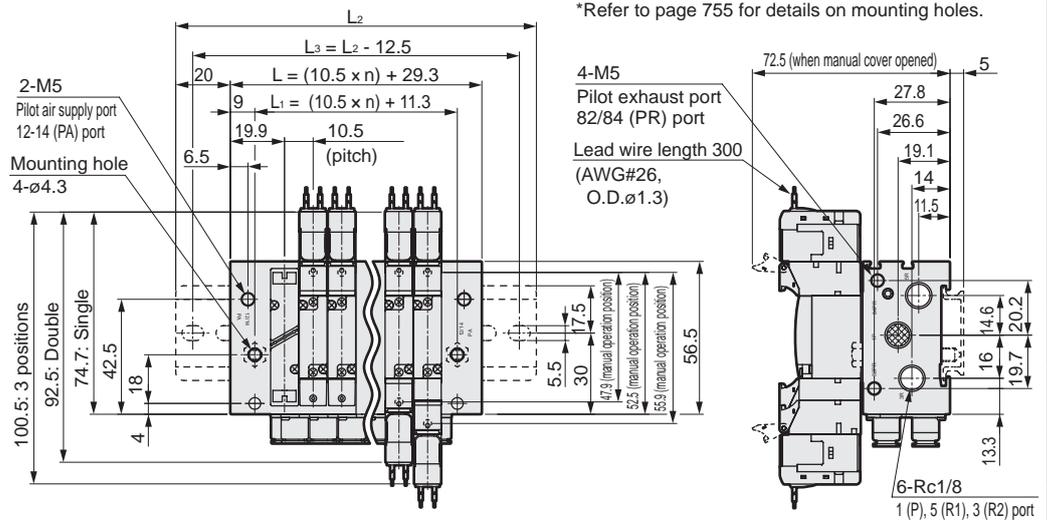
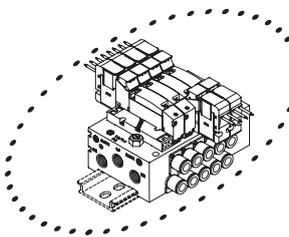
Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	52.8	65.3	77.8	90.3	102.8	115.3	127.8	140.3	152.8	165.3	177.8	190.3	202.8	215.3	227.8	240.3	252.8	265.3	277.8
L1	32.8	45.3	57.8	70.3	82.8	95.3	107.8	120.3	132.8	145.3	157.8	170.3	182.8	195.3	207.8	220.3	232.8	245.3	257.8
L2	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0				
L3	87.5	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5				

### Dimensions

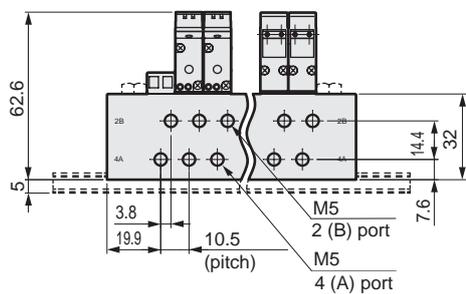
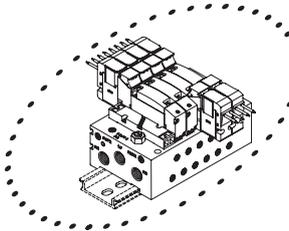


#### M4GB1-P7\*

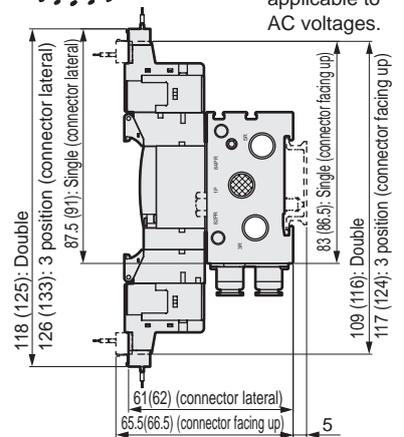
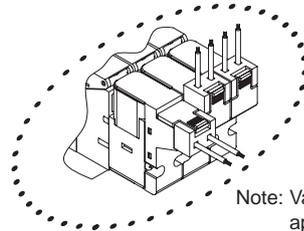
- External pilot (K)  
Grommet lead wire (blank)



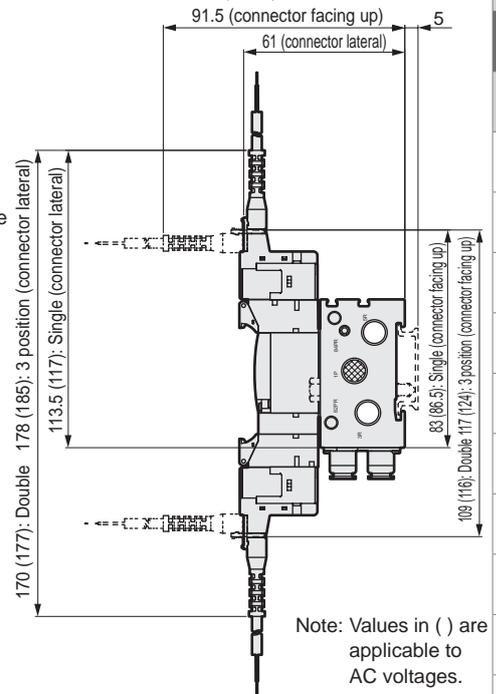
- External pilot (K)  
M5 female thread (M5)



- External pilot (K)  
E connector (E)



- External pilot (K)  
EJ connector (E\*\*J)



Station No.	2	3	4	5	6	7	8	9	10	11	12
L	50.3	60.8	71.3	81.8	92.3	102.8	113.3	123.8	134.3	144.8	155.3
L1	32.3	42.8	53.3	63.8	74.3	84.8	95.3	105.8	116.3	126.8	137.3
L2	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0
L3	87.5	100.0	100.0	112.5	125.0	137.5	150.0	162.5	162.5	175.0	187.5

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R. (module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

# M4GB1 Series

Individual air wiring manifold; base piping

## Dimensions

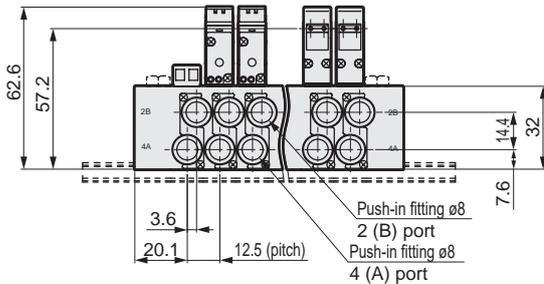
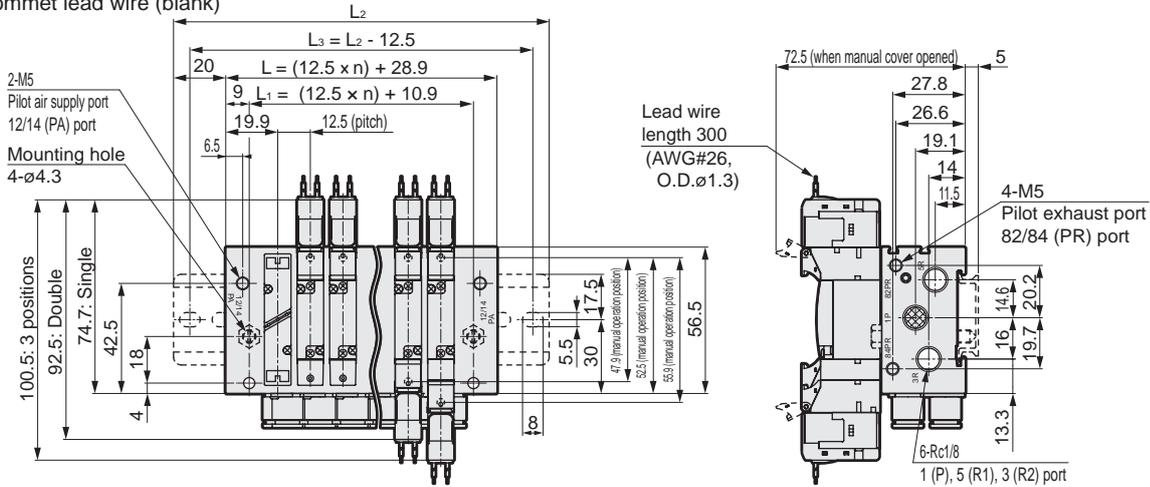
### M4GB1-C8-K-P7\*

Note: This is a dedicated manifold base.

\*Refer to page 755 for details on mounting holes.

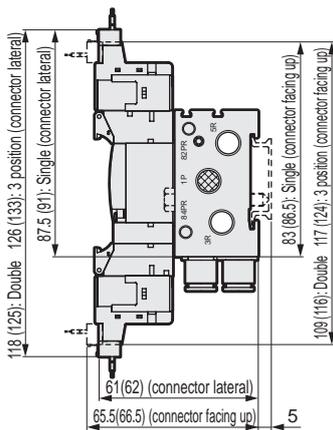
● External pilot (K)

Grommet lead wire (blank)



● External pilot (K)

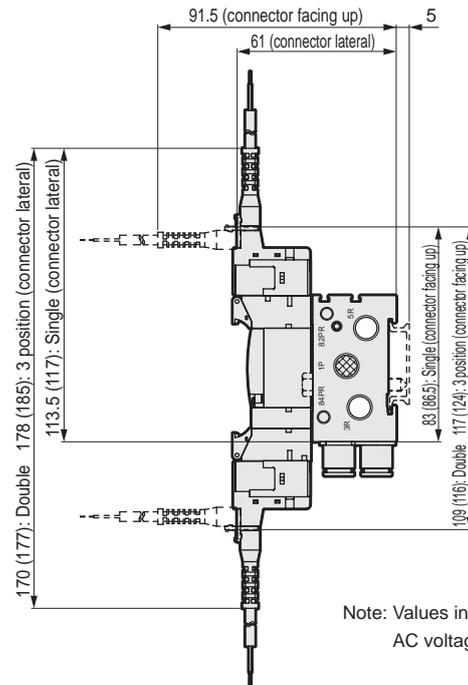
E connector (E)



Note: Values in ( ) are for AC voltage.

● External pilot (K)

EJ connector (E\*\*J)



Note: Values in ( ) are for AC voltage.

Station No.	2	3	4	5	6	7	8	9	10	11	12
L	53.9	66.4	78.9	91.4	103.9	116.4	128.9	141.4	153.9	166.4	178.9
L1	35.9	48.4	60.9	73.4	85.9	98.4	110.9	123.4	135.9	148.4	160.9
L2	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0
L3	87.5	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5

## Dimensions



### ● Straight fitting

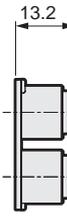
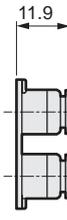
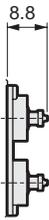
●  $\varnothing 1.8$  (CF)

●  $\varnothing 1.8$  (C18)

●  $\varnothing 4$  (C4)

●  $\varnothing 6$  (C6)

●  $\varnothing 8$  (C8)



### ● Straight fitting, single plug

●  $\varnothing 1.8$  (CFNC)

●  $\varnothing 1.8$  (C18NC)

●  $\varnothing 4$  (C4NC)

●  $\varnothing 6$  (C6NC)

●  $\varnothing 8$  (C8NC)

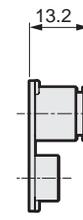
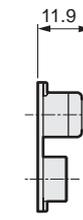
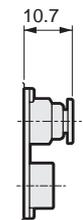
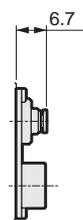
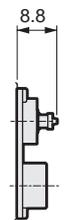
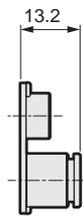
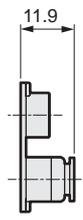
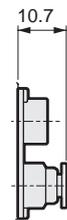
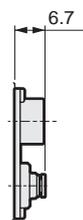
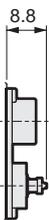
●  $\varnothing 1.8$  (CFNO)

●  $\varnothing 1.8$  (C18NO)

●  $\varnothing 4$  (C4NO)

●  $\varnothing 6$  (C6NO)

●  $\varnothing 8$  (C8NO)

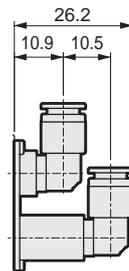
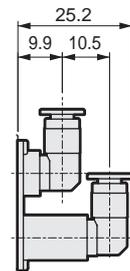
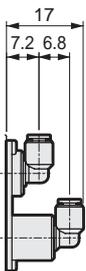


### ● Radial fitting (facing up)

●  $\varnothing 1.8$  (CL18)

●  $\varnothing 4$  (CL4)

●  $\varnothing 6$  (CL6)

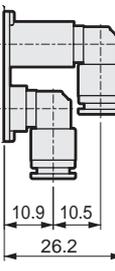
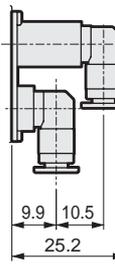
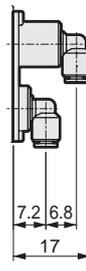


### ● Radial fitting (facing down)

●  $\varnothing 1.8$  (CD18)

●  $\varnothing 4$  (CD4)

●  $\varnothing 6$  (CD6)



### ● Radial fitting (facing up), single plug

●  $\varnothing 1.8$  (CL18NC)

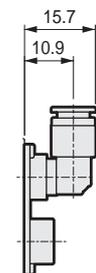
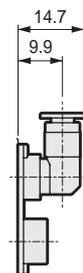
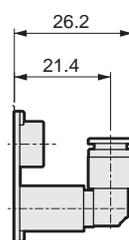
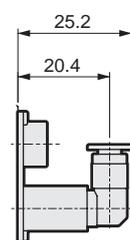
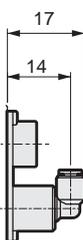
●  $\varnothing 4$  (CL4NC)

●  $\varnothing 6$  (CL6NC)

●  $\varnothing 1.8$  (CL18NO)

●  $\varnothing 4$  (CL4NO)

●  $\varnothing 6$  (CL6NO)



### ● Radial push-in fitting (facing down), single plug

●  $\varnothing 1.8$  (CD18NC)

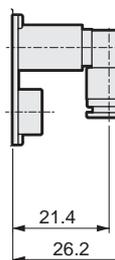
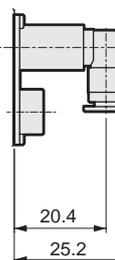
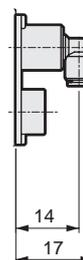
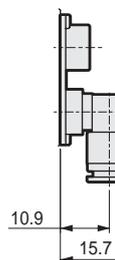
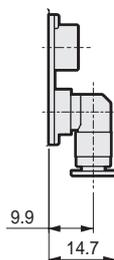
●  $\varnothing 4$  (CD4NC)

●  $\varnothing 6$  (CD6NC)

●  $\varnothing 1.8$  (CD18NO)

●  $\varnothing 4$  (CD4NO)

●  $\varnothing 6$  (CD6NO)



SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge

Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/ tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# M4GB1 Series

Individual wiring manifold; base piping

## Dimensions

SCPD3	● Straight fitting			
SCM	● $\varnothing 1/8$ inch (C3N)		● $\varnothing 5/32$ inch (C4N)	
SSD2				
MDC2				
SMG				
LCM				
LCR	● Straight fitting, single plug			
LCG	● $\varnothing 1/8$ inch (C3NCN)		● $\varnothing 5/32$ inch (C4NCN)	
LCX				
STM				
STG				
STR2				
MRL2	● Radial fitting (facing up)			
GRC	● $\varnothing 1/8$ inch (CL3N)		● $\varnothing 5/32$ inch (CL4N)	
Cylinder switch				
MN3E MN4E				
4GA/B				
M4GA/B				
MN4GA/B				
F.R (module unit)	● Radial fitting (facing up), single plug			
Clean F.R	● $\varnothing 1/8$ inch (CL3NCN)		● $\varnothing 5/32$ inch (CL4NCN)	
Precision R				
Press gauge Diff. press gauge				
Electro-pneumatic R				
Speed controller				
Auxiliary valve				
Fitting/tube	● Radial push-in fitting (facing down), single plug			
Clean air unit	● $\varnothing 1/8$ inch (CD3NCN)		● $\varnothing 5/32$ inch (CD4NCN)	
Pressure sensor				
Flow rate sensor				
Valve for air blow				
Ending				

# MEMO

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

**MN3E**  
**MN4E**

**4GA/B**

**M4GA/B**

**MN4GA/B**

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending



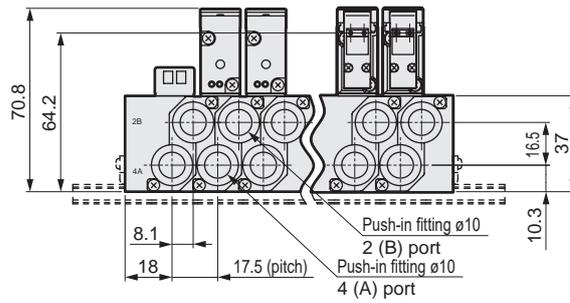
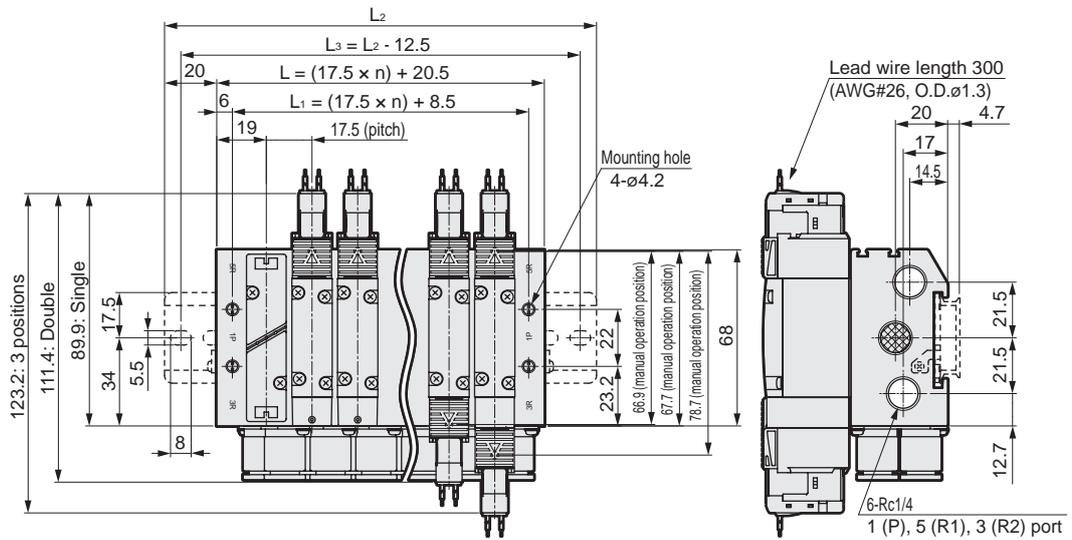
### Dimensions

#### M4GB2-C10-P7\*

- Grommet lead wire (blank)

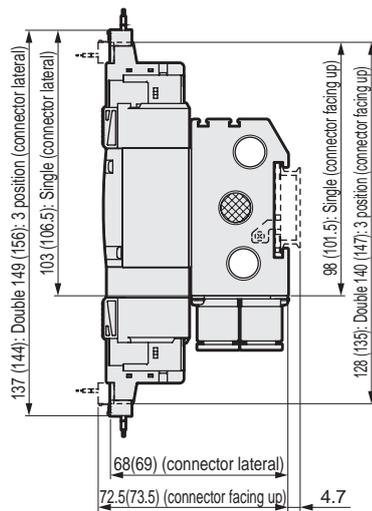
Note: This is a dedicated manifold base.

\*Refer to page 754 for details on mounting holes.

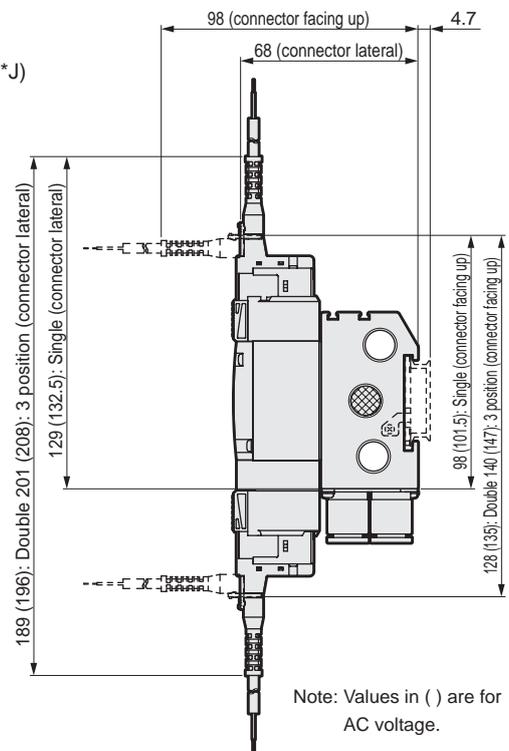


- E connector (E)

- EJ connector (E\*\*J)



Note: Values in ( ) are for AC voltage.



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	55.5	73.0	90.5	108.0	125.5	143.0	160.5	178.0	195.5	213.0	230.5	248.0	265.5	283.0	300.5	318.0	335.5	353.0	370.5
L <sub>1</sub>	43.5	61.0	78.5	96.0	113.5	131.0	148.5	166.0	183.5	201.0	218.5	236.0	253.5	271.0	288.5	306.0	323.5	341.0	358.5
L <sub>2</sub>	100.0	125.0	137.5	150.0	175.0	187.5	212.5	225.0	237.5	262.5	275.0	300.0	312.5	325.0					
L <sub>3</sub>	87.5	112.5	125.0	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5					

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B**
- MN4GA/B
- F.R. (module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

# M4GB2 Series

Individual wiring manifold; base piping

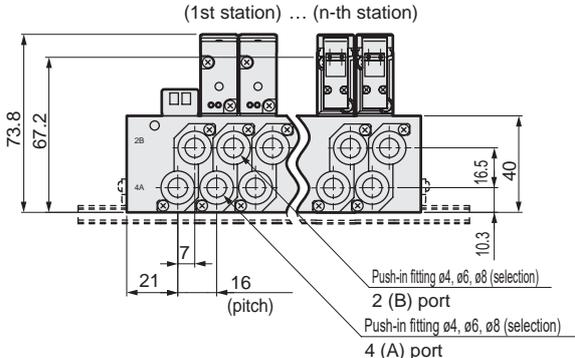
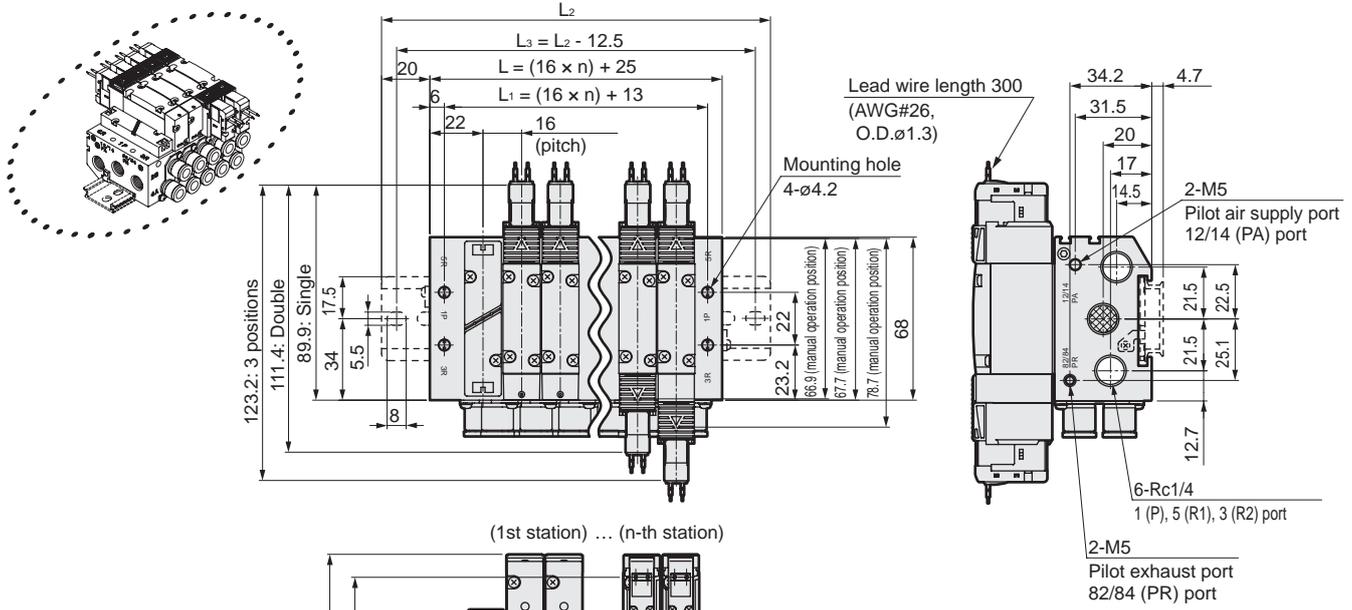
## Dimensions



### M4GB2-P7\*

- External pilot (K)
- Grommet lead wire (blank)

\*Refer to page 754 for details on mounting holes.

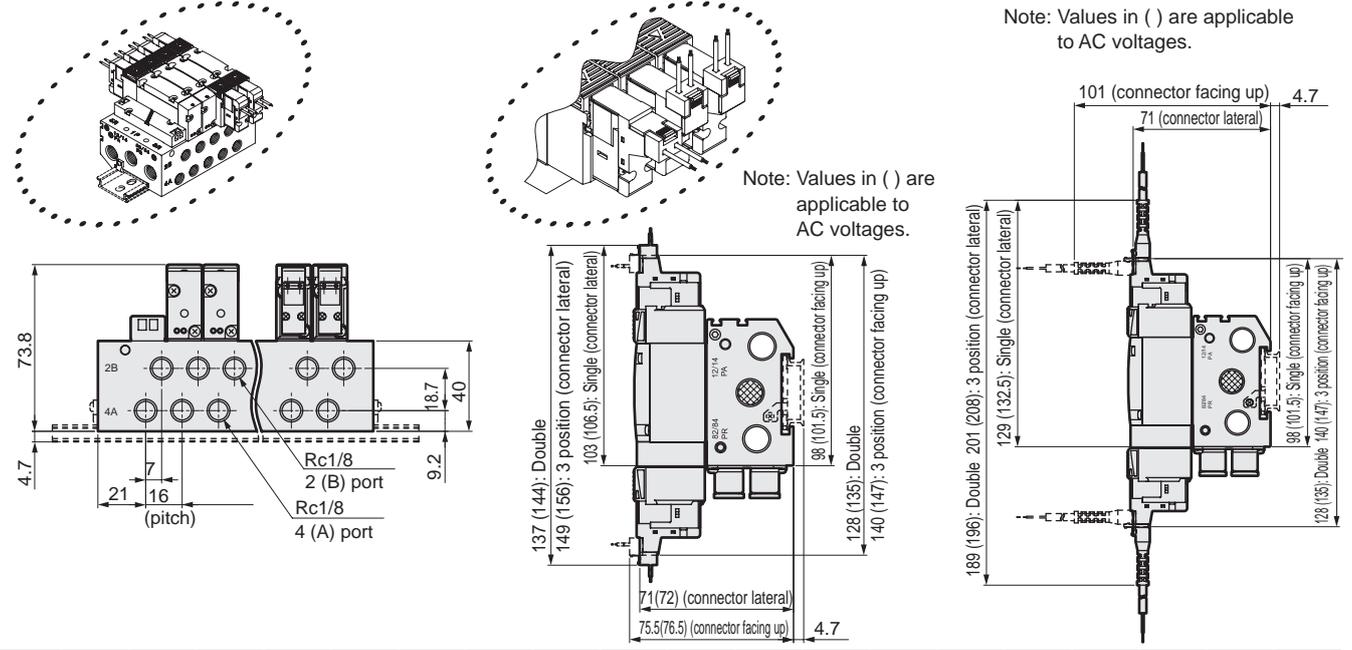


- External pilot (K)
- Rc1/8 female thread (06)

- External pilot (K)
- E connector (E)

- External pilot (K)
- EJ connector (E\*\*J)

Note: Values in ( ) are applicable to AC voltages.



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	57.0	73.0	89.0	105.0	121.0	137.0	153.0	169.0	185.0	201.0	217.0	233.0	249.0	265.0	281.0	297.0	313.0	329.0	345.0
L1	45.0	61.0	77.0	93.0	109.0	125.0	141.0	157.0	173.0	189.0	205.0	221.0	237.0	253.0	269.0	285.0	301.0	317.0	333.0
L2	100.0	125.0	137.5	150.0	162.5	187.5	200.0	212.5	225.0	250.0	262.5	275.0	300.0	312.5	325.0				
L3	87.5	112.5	125.0	137.5	150.0	175.0	187.5	200.0	212.5	237.5	250.0	262.5	287.5	300.0	312.5				

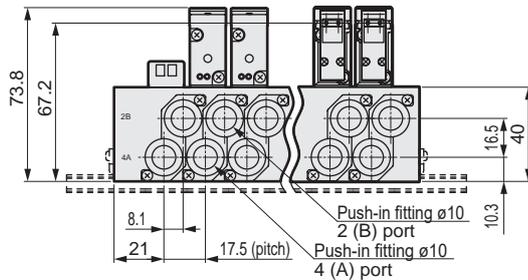
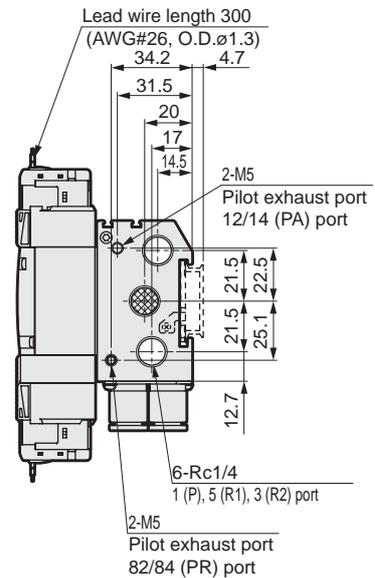
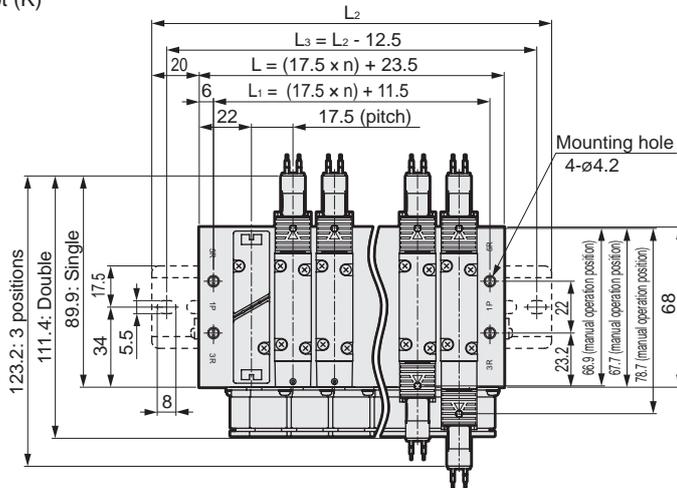
### Dimensions

#### M4GB2-C10-K-P7\*

Note: This is a dedicated manifold base.

\*Refer to page 754 for details on mounting holes.

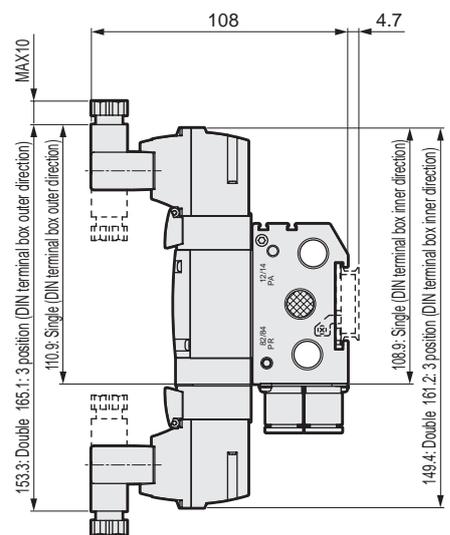
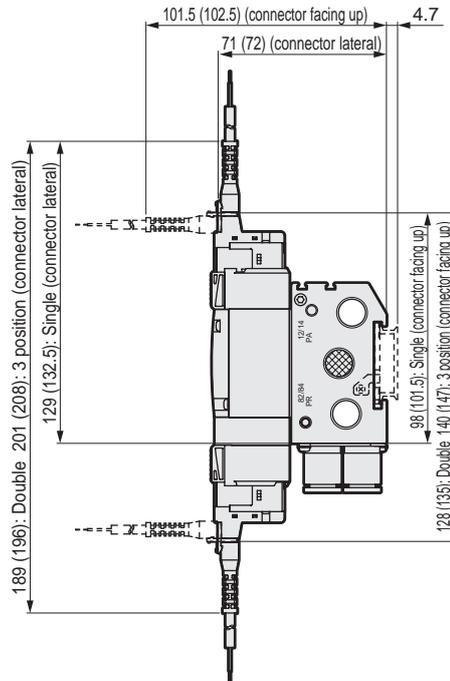
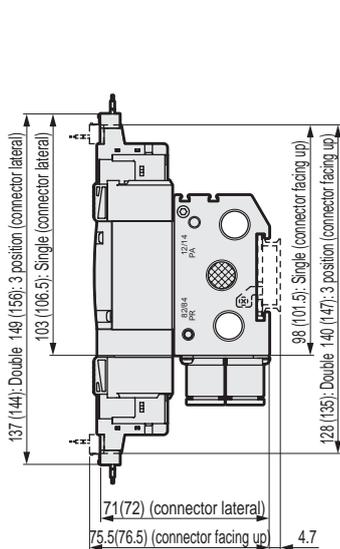
- Grommet lead wire (blank)
- External pilot (K)



- External pilot (K)
- E connector (E)

- External pilot (K)
- EJ connector (E\*\*J)

- External pilot (K)
- DIN terminal box (B)



Note: Values in ( ) are for AC voltage.

Note: Values in ( ) are for AC voltage.

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	58.5	76.0	93.5	111.0	128.5	146.0	163.5	181.0	198.5	216.0	233.5	251.0	268.5	286.0	303.5	321.0	338.5	356.0	373.5
L <sub>1</sub>	46.5	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5
L <sub>2</sub>	100.0	125.0	137.5	162.5	175.0	187.5	212.5	225.0	250.0	262.5	275.0	300.0	312.5	337.5	350.0				
L <sub>3</sub>	87.5	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5				

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# M4GB2 Series

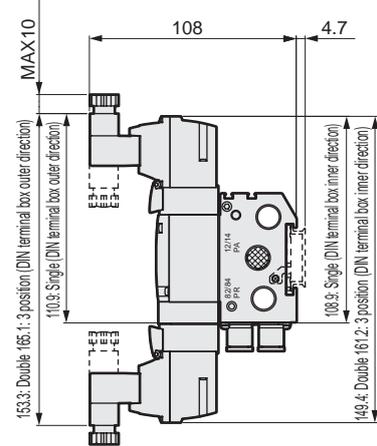
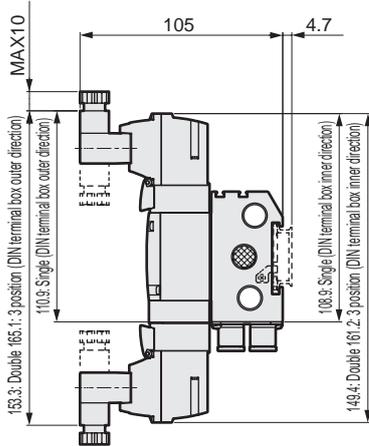
Individual wiring manifold; base piping

## Dimensions

● DIN terminal box (B)

● External pilot (K)

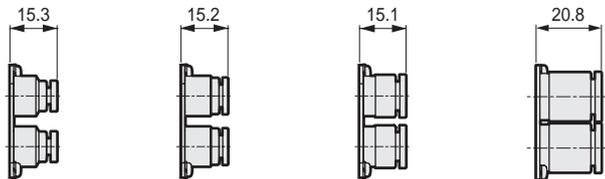
DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

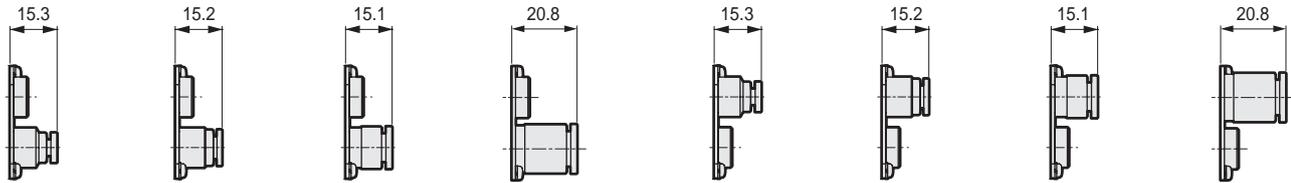
● Straight fitting

●  $\varnothing 4$  (C4)    ●  $\varnothing 6$  (C6)    ●  $\varnothing 8$  (C8)    ●  $\varnothing 10$  (C10)



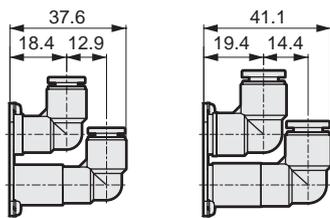
● Straight fitting, single plug

●  $\varnothing 4$  (C4NC)    ●  $\varnothing 6$  (C6NC)    ●  $\varnothing 8$  (C8NC)    ●  $\varnothing 10$  (C10NC)    ●  $\varnothing 4$  (C4NO)    ●  $\varnothing 6$  (C6NO)    ●  $\varnothing 8$  (C8NO)    ●  $\varnothing 10$  (C10NO)



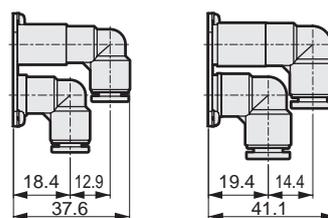
● Radial fitting (facing up)

●  $\varnothing 6$  (CL6)    ●  $\varnothing 8$  (CL8)



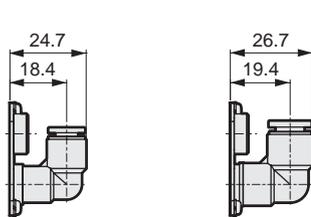
● Radial fitting (facing down)

●  $\varnothing 6$  (CD6)    ●  $\varnothing 8$  (CD8)



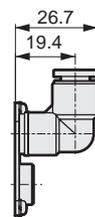
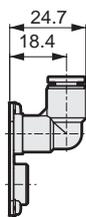
● Radial fitting (facing up), single plug

●  $\varnothing 6$  (CL6NC)    ●  $\varnothing 8$  (CL8NC)



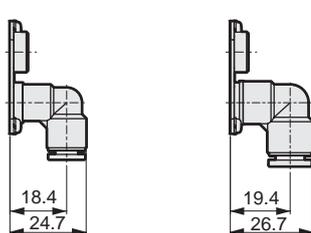
●  $\varnothing 6$  (CL6NO)

●  $\varnothing 8$  (CL8NO)



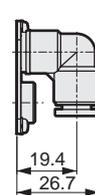
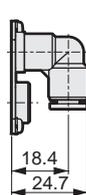
● Radial fitting (facing down), single plug

●  $\varnothing 6$  (CD6NC)    ●  $\varnothing 8$  (CD8NC)



●  $\varnothing 6$  (CD6NO)

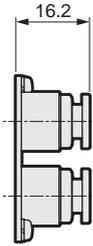
●  $\varnothing 8$  (CD8NO)



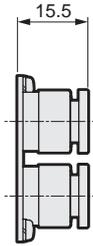
## Dimensions

● Straight fitting

●  $\varnothing 1/4$  inch (C6N)

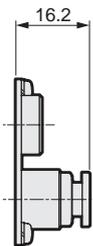


●  $\varnothing 5/16$  inch (C8N)

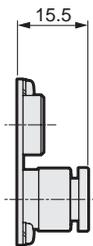


● Straight fitting, single plug

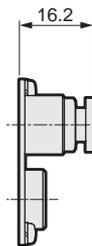
●  $\varnothing 1/4$  inch (C6NCN)



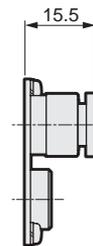
●  $\varnothing 5/16$  inch (C8NCN)



●  $\varnothing 1/4$  inch (C6NON)

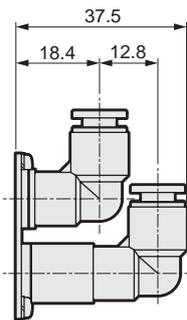


●  $\varnothing 5/16$  inch (C8NON)

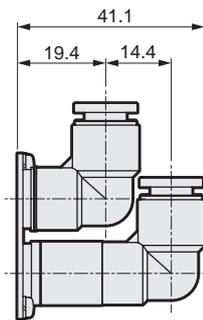


● Radial fitting (facing up)

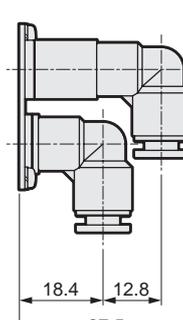
●  $\varnothing 1/4$  inch (CL6N)



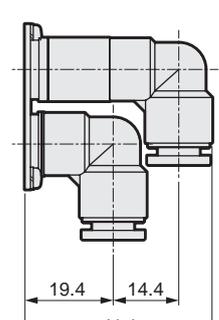
●  $\varnothing 5/16$  inch (CL8N)



●  $\varnothing 1/8$  inch (CD6N)

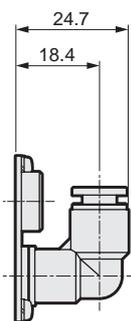


●  $\varnothing 5/32$  inch (CD8N)

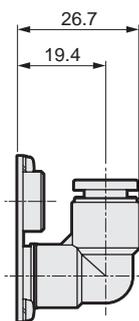


● Radial fitting (facing up), single plug

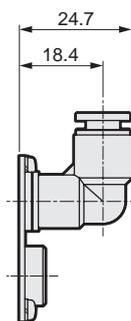
●  $\varnothing 1/4$  inch (CL6NCN)



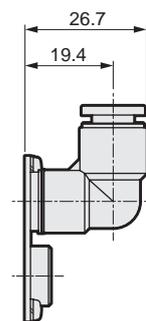
●  $\varnothing 5/16$  inch (CL8NCN)



●  $\varnothing 1/4$  inch (CL6NON)

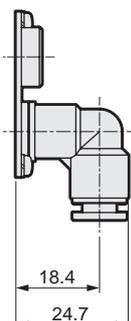


●  $\varnothing 5/16$  inch (CL8NON)

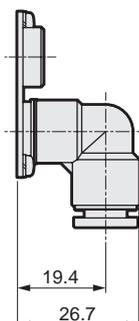


● Radial fitting (facing down), single plug

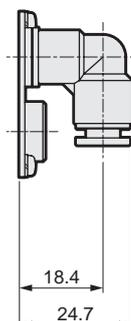
●  $\varnothing 1/4$  inch (CD6NCN)



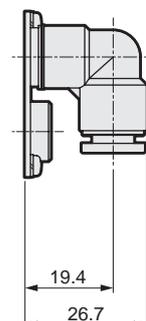
●  $\varnothing 5/16$  inch (CD8NCN)



●  $\varnothing 1/4$  inch (CD6NON)



●  $\varnothing 5/16$  inch (CD8NON)



SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# M4GB3 Series

Individual wiring manifold; base piping

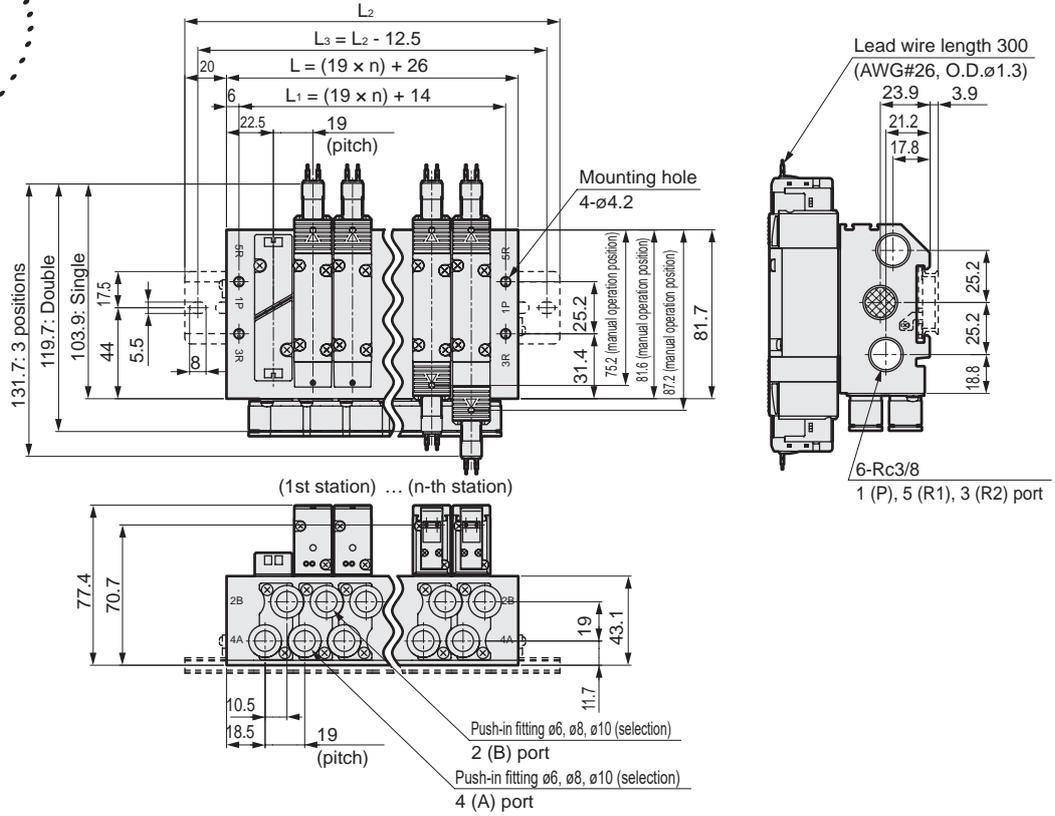
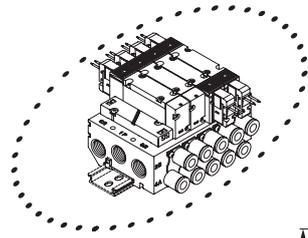
## Dimensions



### M4GB3-P7\*

● Grommet lead wire (blank)

\*Refer to page 754 for details on mounting holes.

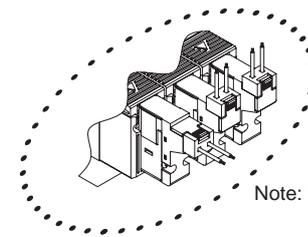
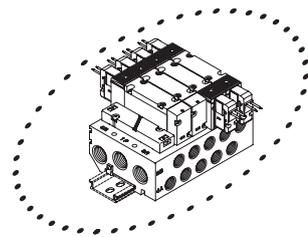


● RC1/4 female thread (08)

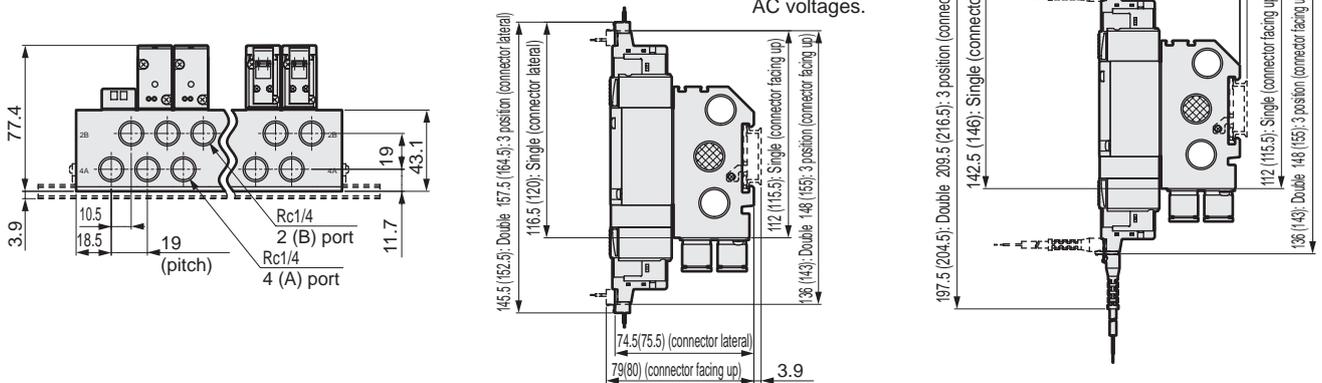
● E connector (E)

● EJ connector (E\*\*J)

Note: Values in ( ) are applicable to AC voltages.



Note: Values in ( ) are applicable to AC voltages.



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	83.0	102.0	121.0	140.0	159.0	178.0	197.0	216.0	235.0	254.0	273.0	292.0	311.0	330.0	349.0	368.0	387.0	406.0
L1	52.0	71.0	90.0	109.0	128.0	147.0	166.0	185.0	204.0	223.0	242.0	261.0	280.0	299.0	318.0	337.0	356.0	375.0	394.0
L2	112.5	125.0	150.0	162.5	187.5	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	375.0				
L3	100.0	112.5	137.5	150.0	175.0	187.5	212.5	225.0	250.0	262.5	287.5	312.5	325.0	350.0	362.5				

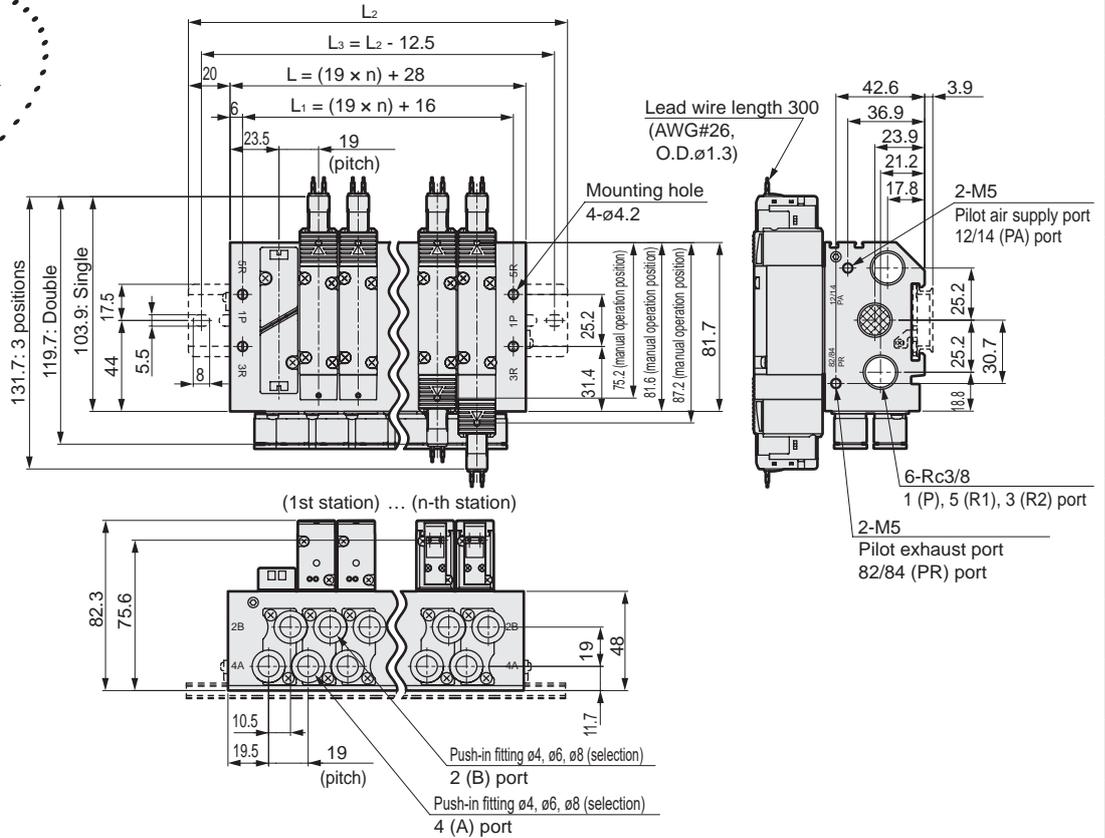
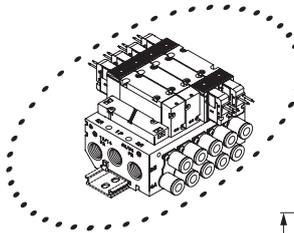
## Dimensions



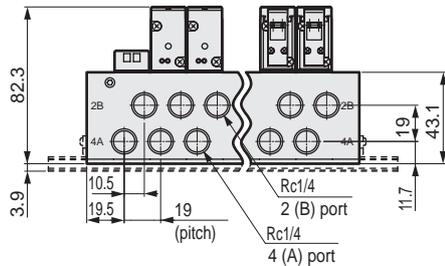
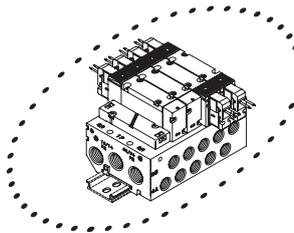
### M4GB3-P7\*

- External pilot (K)  
Grommet lead wire (blank)

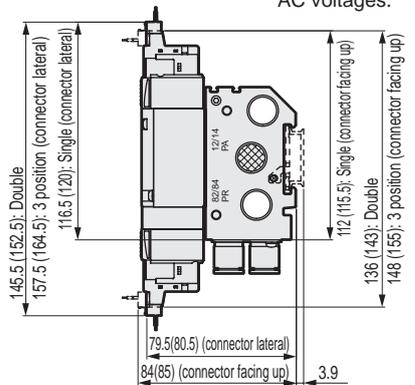
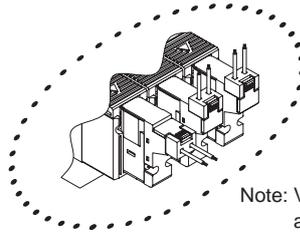
\*Refer to page 754 for details on mounting holes.



- External pilot (K)  
Rc1/4 female thread (ø8)

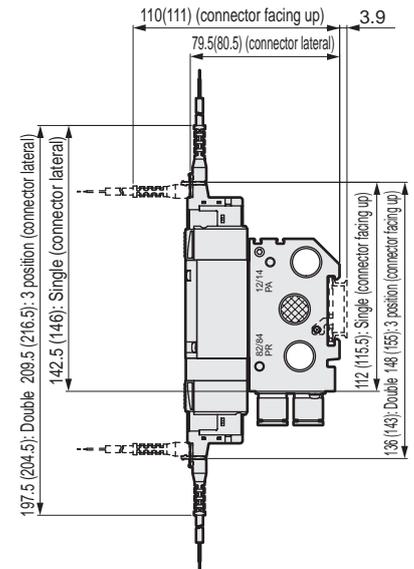


- External pilot (K)  
E connector (E)



- External pilot (K)  
EJ connector (E\*\*J)

Note: Values in ( ) are applicable to AC voltages.



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	66.0	85.0	104.0	123.0	142.0	161.0	180.0	199.0	218.0	237.0	256.0	275.0	294.0	313.0	332.0	351.0	370.0	389.0	408.0
L1	54.0	73.0	92.0	111.0	130.0	149.0	168.0	187.0	206.0	225.0	244.0	263.0	282.0	301.0	320.0	339.0	358.0	377.0	396.0
L2	112.5	125.0	150.0	175.0	187.5	212.5	225.0	250.0	262.5	287.5	300.0	325.0	337.5	362.5	375.0				
L3	100.0	112.5	137.5	162.5	175.0	200.0	212.5	237.5	250.0	275.0	287.5	312.5	325.0	350.0	362.5				

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R. (module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

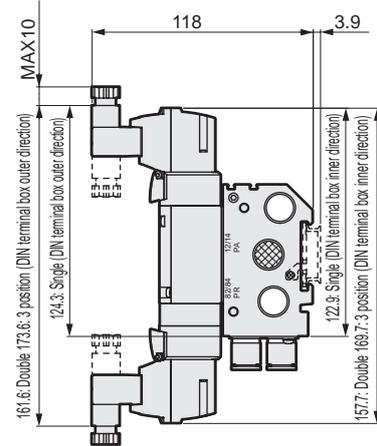
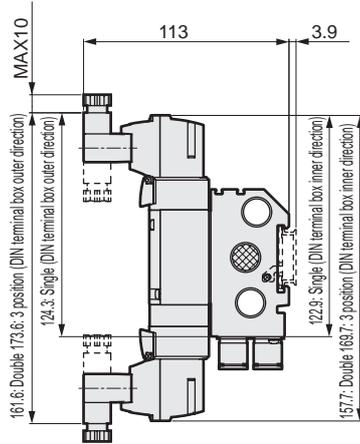
# M4GB3 Series

Individual wiring manifold; base piping

## Dimensions

● DIN terminal box (B)

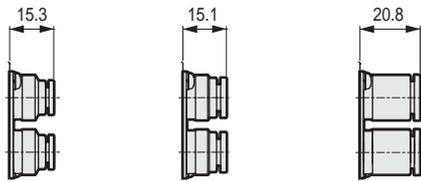
● External pilot (K)  
DIN terminal box (B)



Note: The DIN terminal box assembly is shipped facing inward.

● Straight fitting

●  $\phi 6$  (C6)      ●  $\phi 8$  (C8)      ●  $\phi 10$  (C10)



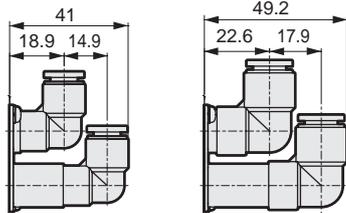
● Straight fitting, single plug

●  $\phi 6$  (C6NC)      ●  $\phi 8$  (C8NC)      ●  $\phi 10$  (C10NC)      ●  $\phi 6$  (C6NO)      ●  $\phi 8$  (C8NO)      ●  $\phi 10$  (C10NO)



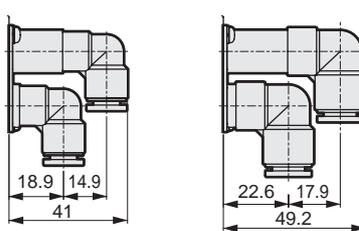
● Radial fitting (facing up)

●  $\phi 8$  (CL8)      ●  $\phi 10$  (CL10)



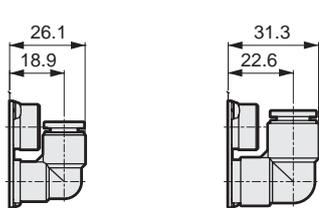
● Radial fitting (facing down)

●  $\phi 8$  (CD8)      ●  $\phi 10$  (CD10)



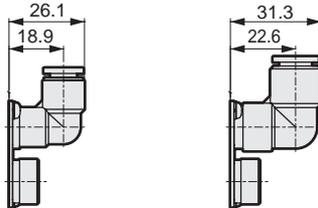
● Radial fitting (facing up), single plug

●  $\phi 8$  (CL8NC)      ●  $\phi 10$  (CL10NC)



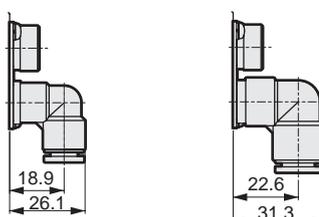
●  $\phi 8$  (CL8NO)

●  $\phi 10$  (CL10NO)



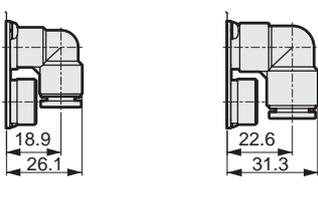
● Radial fitting (facing down), single plug

●  $\phi 8$  (CD8NC)      ●  $\phi 10$  (CD10NC)



●  $\phi 8$  (CD8NO)

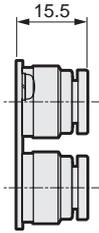
●  $\phi 10$  (CD10NO)



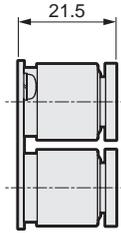
## Dimensions

● Straight fitting

●  $\varnothing 5/16$  inch (C8N)

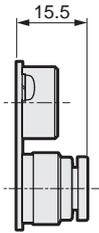


●  $\varnothing 3/8$  inch (C10N)

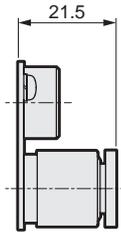


● Straight fitting, single plug

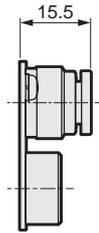
●  $\varnothing 5/16$  inch (C8NCN)



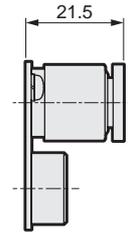
●  $\varnothing 3/8$  inch (C10NCN)



●  $\varnothing 5/16$  inch (C8NON)

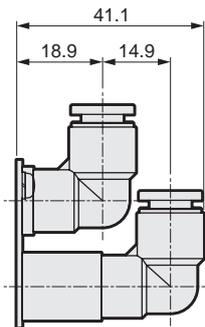


●  $\varnothing 3/8$  inch (C10NON)

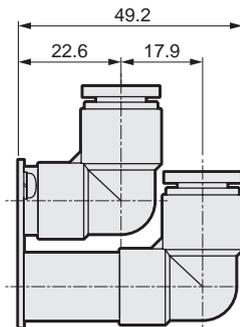


● Radial fitting (facing up)

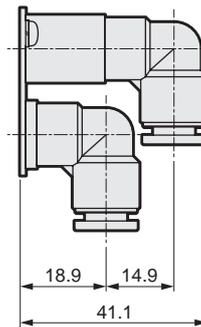
●  $\varnothing 5/16$  inch (CL8N)



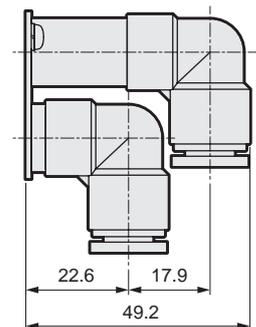
●  $\varnothing 3/8$  inch (CL10N)



●  $\varnothing 5/16$  inch (CD8N)

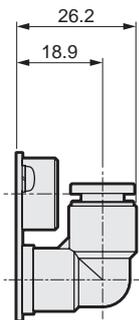


●  $\varnothing 3/8$  inch (CD10N)

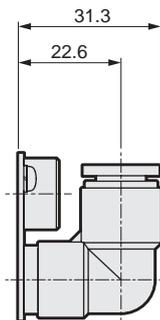


● Radial fitting (facing up), single plug

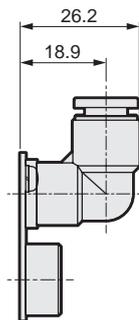
●  $\varnothing 5/16$  inch (CL8NCN)



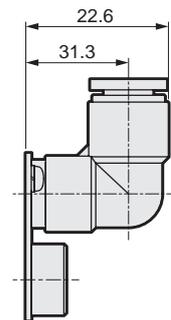
●  $\varnothing 3/8$  inch (CL10NCN)



●  $\varnothing 5/16$  inch (CL8NON)

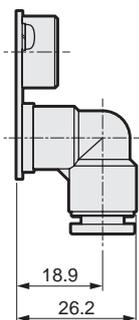


●  $\varnothing 3/8$  inch (CL10NON)

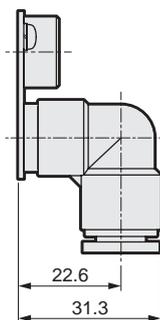


● Radial fitting (facing down), single plug

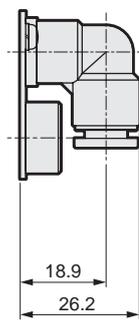
●  $\varnothing 5/16$  inch (CD8NCN)



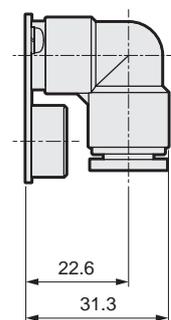
●  $\varnothing 3/8$  inch (CD10NCN)



●  $\varnothing 5/16$  inch (CD8NON)



●  $\varnothing 3/8$  inch (CD10NON)



SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

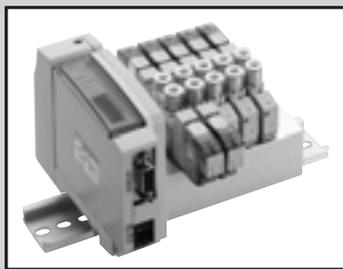
Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending



Reduced wiring manifold  
Body piping  
Direct mount DIN rail mount

# M3GA1/2/3-T\*(D) Series M4GA1/2/3-T\*(D) Series

● Applicable cylinder bore size: ø20 to ø100



SCPD3  
SCM  
SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R (module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

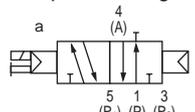
Flow rate sensor

Valve for air blow

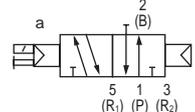
Ending

## JIS symbol

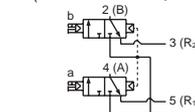
- 3-port valve  
2-position single NC



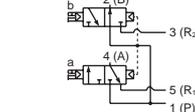
- 2-position single NO



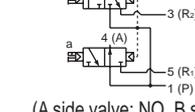
- Dual 3-port valve integrated  
(A side valve: NC, B side valve: NC)



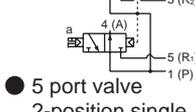
- (A side valve: NC, B side valve: NO)



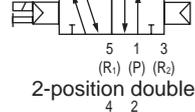
- (A side valve: NO, B side valve: NC)



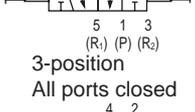
- (A side valve: NO, B side valve: NO)



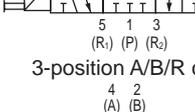
- 5 port valve  
2-position single



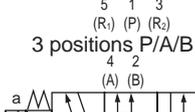
- 2-position double



- 3-position  
All ports closed



- 3-position A/B/R connection



- 3 positions P/A/B connection



## Structure and material restriction

	Structure	Material restriction			Model No.
P7 Series	Dust generation preventing				— P70
	Dust generation preventing	Copper-based materials prohibited	Silicon-based materials prohibited	Halogen-based materials prohibited (fluorine, chlorine, bromine)	— P74 Custom order product

## Manifold common specifications

Descriptions		
Manifold		Reduced wiring integrated base
Mounting method		Direct mount DIN rail mount
Supply and exhaust method		Common supply/common exhaust (With internal exhaust check valve)
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (Pilot exhaust check valve integrated)
	External pilot	Main valve/pilot valve individual exhaust
Piping direction		Top piping
Valve and operation		Pilot operated soft spool valve
Working fluid		Compressed air
Max. working pressure	MPa	0.7
Min. working pressure	MPa	0.2 (*3)
Proof pressure	MPa	1.05
Ambient temperature	°C	-5 to 55 (no freezing)
Fluid temperature	°C	5 to 55
Manual operating device		Common for non-locking/locking (standard)
Lubrication	(*1)	Not required
Degree of protection	(*2)	Dust proof
Vibration resistance	m/s <sup>2</sup>	50 or less
Shock resistance	m/s <sup>2</sup>	300 or less
Atmosphere		Containing corrosive gas is not permissible

- \*1: Use the turbine oil Class 1 ISO VG32 for lubrication. Excessive or intermittent lubrication results in unstable operation.
- \*2: Avoid water drops or oil, etc. during use.
- \*3: The working pressure range is 0 to 0.7 MPa when the external pilot (option Code: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.

## Electrical specifications

Descriptions		T1□, T30□, T5□	T6G1, T8□
Rated voltage	V	24 VDC	12 VDC
Voltage fluctuation range	(*4)	±10%	
Holding current	Standard	0.017	0.034
	Low exoergic/energy-saving circuit built-in	0.005	0.010
Power consumption	Standard	0.4	
	Low exoergic/energy-saving circuit built-in	0.1	
Thermal class		B	
Surge suppressor	(*5)	Zener diode	
Indicator		LED	

- \*4: As for T6G1 and T8□ (serial transmission), because a voltage drop may occur due to the internal circuit design, be careful to check for the voltage fluctuation range.
- \*5: When selecting the type of low-heat-generating/power-saving circuit built-in or surgeless, a diode is used.

## Common specifications

Descriptions		M3GA1/M4GA1	M3GA2/M4GA2	M3GA3/M4GA3
Port size	A/B port	Barbed fitting ø1.8 Push-in fitting ø1.8, ø4, ø6 M5	Push-in fitting ø4, ø6, ø8 Rc1/8	Push-in fitting ø6, ø8, ø10 Rc1/4
	P/R1/R2 port	Rc1/8	Rc1/4	Rc3/8

T1□, T30□, T5□

Descriptions		M3GA1/M4GA1		M3GA2/M4GA2		M3GA3/M4GA3	
		Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount
Max. station number	Standard (internal pilot) External pilot	20 stations 12 stations	16 stations	20 stations	16 stations	16 stations	
Manifold base weight calculation formula (n: station No.)	Standard	29n + 215	31n + 228	54n + 264	56n + 297	84n + 320	86n + 354
	g External pilot	44n + 334	46n + 347	96n + 433	96n + 468	149n + 554	151n + 583

T6G1

Descriptions		M3GA1/M4GA1		M3GA2/M4GA2		M3GA3/M4GA3	
		Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount
Max. station number	Standard (internal pilot) External pilot	16 stations 12 stations		16 stations		16 stations	
Manifold base weight calculation formula (n: station No.)	Standard	31n + 375		56n + 444		86n + 501	
	g External pilot	46n + 494		98n + 615		151n + 731	

T8□

Descriptions		M3GA1/M4GA1		M3GA2/M4GA2		M3GA3/M4GA3	
		Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount
Max. station number	Standard (internal pilot) External pilot	20 stations 12 stations		20 stations	16 stations	16 stations	
Manifold base weight calculation formula (n: station No.)	Standard	50n + 305	52n + 332	57n + 259	60n + 290	150n + 384	153n + 416
	g External pilot	51n + 313	54n + 340	102n + 336	105n + 368	169n + 417	173n + 449

Manifold base weight stands for a value for the screw connection specifications when a DIN rail, electrical component block, or slave unit is equipped. The max. station number of the manifold is limited by the max. number of solenoid for each of the following wiring specifications.

# M<sub>4</sub><sup>3</sup> GA1/2/3-T\*(D) Series

Reduced wiring manifold; body piping

## Flow characteristics

Model No.	Solenoid position	P → A/B		A/B → R1/R2		
		C [dm <sup>3</sup> /(s·bar)]	b	C [dm <sup>3</sup> /(s·bar)]	b	
M3GA1 M4GA1	Dual 3-port valve integrated	0.86	0.31	1.1 (0.66)	0.19 (0.22)	
	2-position	0.99	0.20	1.2 (0.70)	0.20 (0.12)	
	3-position	All ports closed	0.94	0.23	1.1 -	0.20 -
		ABR connection	0.93	0.18	1.3 (0.70)	0.23 (0.02)
M3GA2 M4GA2	Dual 3-port valve integrated	1.7	0.40	2.3 (1.7)	0.29 (0.32)	
	2-position	2.3	0.36	2.9 (1.7)	0.24 (0.33)	
	3-position	All ports closed	2.1	0.35	2.5 -	0.32 -
		ABR connection	2.2	0.37	2.9 (1.8)	0.32 (0.29)
PAB connection		2.4	0.34	2.5 -	0.33 -	
M3GA3 M4GA3	2-position	3.2	0.37	3.8 (2.5)	0.13 (0.28)	
	3-position	All ports closed	2.9	0.35	3.3 -	0.35 -
		ABR connection	3.0	0.34	3.8 (2.6)	0.12 (0.27)
		PAB connection	3.3	0.30	3.3 -	0.32 -

\*1: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .  
 \*2: Values in ( ) apply when the exhaust check valve is attached.

## Wiring specifications

Descriptions	T10	T11	T30	T50	T51	T52	T53																															
Connector and terminal block specifications	M3 thread tightening 18 terminals	Clamping 26 terminals	D sub-connector 25 pin	Flat cable 20 pin MIL-C-83503 standards conformed pressure welding socket 20 pin	Flat cable 20 pin MIL-C-83503 standards conformed pressure welding socket 20 pin	Flat cable 10 pin MIL-C-83503 standards conformed pressure welding socket 10 pin	Flat cable 26 pin MIL-C-83503 standards conformed pressure welding socket 26 pin																															
Max. number of solenoid	16 point	24 point	24 point	16 point	18 point	8 point	24 point																															
Manifold internal wiring	Details on page 714 to 721																																					
Electric block position Blank : Left side R : Right side	Left side: T			Right side: T R																																		
Arrangement Blank : Standard sequential W : Double wiring	(Example) T50		Standard wiring (sequential): Blank		Double wiring: W																																	
			<table border="1"> <tr> <td>Connector pin No.</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td> </tr> <tr> <td>Valve solenoid No.</td> <td>1a</td><td>2a</td><td>2b</td><td>3a</td><td>4a</td><td>4b</td> </tr> </table>		Connector pin No.	1	2	3	4	5	6	Valve solenoid No.	1a	2a	2b	3a	4a	4b	<table border="1"> <tr> <td>Connector pin No.</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> <tr> <td>Valve solenoid No.</td> <td>1a</td><td>Void</td><td>2a</td><td>2b</td><td>3a</td><td>Void</td><td>4a</td><td>4b</td> </tr> </table>			Connector pin No.	1	2	3	4	5	6	7	8	Valve solenoid No.	1a	Void	2a	2b	3a	Void	4a
Connector pin No.	1	2	3	4	5	6																																
Valve solenoid No.	1a	2a	2b	3a	4a	4b																																
Connector pin No.	1	2	3	4	5	6	7	8																														
Valve solenoid No.	1a	Void	2a	2b	3a	Void	4a	4b																														

## Serial transmission slave unit specifications

Download the communication configuration file from the CKD website (<https://www.ckd.co.jp/en/>).

Item	T6G1	
Network name	CC-Link ver 1.10	
Power supply voltage	Unit side	24 VDC ±10%
	Valve side	24 VDC +10% -5%
Current consumption	Unit side	100 mA or less (when all output points are ON)
	Valve side	15 mA or less (when all output points are OFF)
Output points	16 points	
Occupied number	1 station	
Operation display	LED (power and communication status)	

## Serial transmission slave unit specifications

Item	T6G1																	
	T8G1	T8GP1	T8P1	T8PP1	T8EC1	T8ECP1	T8EN1	T8ENP1	T8D1	T8DP1	T8EB1	T8EBP1	T8EF1	T8EFP1	T8EP1	T8EPP1	T8KC1	T8KCP1
Communication system name	CC-Link ver1.10	PROFIBUS-DP (V0)	EtherCAT				EtherNet/IP		DeviceNet		CC-Link IEF Basic		CC-Link IE Field		PROFINET		IO-LINK	
Power supply voltage	Unit side	24 VDC ±10% (*Only T8D is 11 to 25 VDC)																
	Valve side	24 VDC + 10%, -5%																
Current consumption	Unit side	60 mA or less (when all output points are ON)	60 mA or less (when all output points are ON)	110 mA or less (when all output points are ON)	120 mA or less (when all output points are ON)	70 mA or less (when all output points are ON)	130 mA or less (when all output points are ON)	140 mA or less (when all output points are ON)	130 mA or less (when all output points are ON)	50 mA or less (when all output points are ON)								
	Valve side	T8□1: 15 mA or less T8□2: 20 mA or less (when all output points are ON) Load current is not included								15 mA or less (when all output points are ON) Load current is not included								
Output points	T8□1: 16 points, T8□2: 32 points																	
Occupied number	1 station																	
Operation display	LED (power and communication status)																	
Output style	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output

# M<sub>4</sub> GA1/2/3-T\*(D) Series

Reduced wiring manifold; body piping

## How to order

Manifold model No.

**M** **4GA1** **1** **0R** - **C6** - **T30** **W** **H** **D** - **3** - **P70**

3-port manifold model No.

**M** **3GA1** **1** **0R** - **C6** - **T30** **W** **H** **D** - **3** - **P70**

● Discrete valve for mounting base

**4GA1** **1** **9R** - **C6** - **A2N** **H** - **3** - **P70**

● 3-port discrete valve for mounting base

**3GA1** **1** **9R** - **C6** - **A2N** **H** - **3** - **P70**

**B** Solenoid position

\*A2N indicates the A type (facing down) connector with a lamp/surge suppressor and no lead wire.

**A** Model No.

**C** Port size

**J** Clean specs.

● Refer to page 717 for the model No. of cables with a D sub-connector cable.

● Refer to page 713 for the model No. of the cable for a flat cable connector.

**D** Reduced wiring  
Zener diode is used for a surge suppressor.

**E** Terminal and connector pin wiring

**F** Option

**G** Mount

**H** Station No.

**I** Voltage

### ⚠ Precautions for model No. selection

\*1: Select M4GA\*80R when mixing with the 3, 5-port valves. Select M3GA\*80R when mixing with the masking plate.

\*2: Combinations with an external pilot (K) are not supported. Dimensions are the same as the respective 2-position double solenoid.

\*3: The push-in fitting cannot be mixed with the discrete valve's 4 (A) or 2 (B) port.

\*4: Blank ... Wired based on the type of valve used.  
W\* ... Wired for the double solenoid regardless of the type of valve used.

\*5: **For the single type, a spare wiring (A-type socket assembly) is attached on the cap side.**

**For the discrete valve (A2N), a holder for holding the socket assembly is attached. Refer to page 596 for details.**

\*Always indicate "manifold specifications" (page 609 to 623).

		<b>A Model No.</b>					
		3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
<b>B Solenoid position</b>							
<b>1</b>	2-position single				●	●	●
<b>2</b>	2-position double				●	●	●
<b>3</b>	3-position all ports closed				●	●	●
<b>4</b>	3-position ABR connection				●	●	●
<b>5</b>	3-position P/A/B connection				●	●	●
<b>1</b>	2-position single normally closed (*1)	●	●	●			
<b>11</b>	2-position single normally open (*1)	●	●	●			
<b>66</b>	Dual 3-port valve integrated	A side valve: Normally closed		B side valve: Normally closed			
<b>67</b>		A side valve: Normally closed		B side valve: Normally open			
<b>76</b>		A side valve: Normally open		B side valve: Normally closed			
<b>77</b>	(*1, *2)	A side valve: Normally open		B side valve: Normally open			
<b>8</b>	Mixed manifold (In case of multiple solenoid positions)	●	●	●	●	●	●

<b>C Port size</b>		P/R1/R2 port (2)=Rc1/8 (3)=Rc1/4 (4)=Rc3/8			
<b>Port</b>	4 (A)/2 (B) port				
<b>CF</b>	ø1.8 barbed fitting applicable tube UP-9102-**) (2)		(2)		
<b>C18</b>	ø1.8 push-in fitting (applicable tube UP-9402-**) (2)		(2)		
<b>C4</b>	ø4 push-in fitting (2) (3)	(2)	(3)	(2)	(3)
<b>C6</b>	ø6 push-in fitting (2) (3) (4)	(2)	(3)	(2)	(3)
<b>C8</b>	ø8 push-in fitting (3) (4)	(3)	(4)	(3)	(4)
<b>C10</b>	ø10 push-in fitting (4)	(4)			(4)
<b>CX</b>	Push-in fitting mix (*3) (2) (3) (4)	(2)	(3)	(4)	(2)
<b>M5</b>	M5 (2)			(2)	
<b>O6</b>	Rc1/8 (3)				(3)
<b>O8</b>	Rc1/4 (4)				(4)
<b>Port</b>		P/R1/R2 port (5)=1/8NPT (6)=1/4NPT (7)=3/8NPT			
<b>C3N</b>	ø1/8" push-in fitting (5)			(5)	
<b>C4N</b>	ø5/32" push-in fitting (5)			(5)	
<b>C6N</b>	ø1/4" push-in fitting (6)			(6)	
<b>C8N</b>	ø5/16" push-in fitting (6) (7)			(6)	(7)
<b>C10N</b>	ø3/8" push-in fitting (7)			(7)	
<b>CXN</b>	Push-in fitting mix (*3) (5) (6) (7)	(5)	(6)	(7)	(5)
<b>M5N</b>	M5 (5)			(5)	
<b>O6N</b>	NPT1/8 (6)				(6)
<b>O8N</b>	NPT1/4 (*4) (7)				(7)
<b>Port</b>		P/R1/R2 port (2)=Rc1/8 (3)=Rc1/4 (4)=Rc3/8			
<b>C4G</b>	ø4 push-in fitting (8) (9)	(8)	(9)	(8)	(9)
<b>C6G</b>	ø6 push-in fitting (8) (9)	(8)	(9)	(8)	(9)
<b>C8G</b>	ø8 push-in fitting (9) (10)	(9)	(10)	(9)	(10)
<b>C10G</b>	ø10 push-in fitting (10)		(10)		(10)
<b>CXG</b>	Push-in fitting mix (*3) (8) (9) (10)	(8)	(9)	(10)	(8)
<b>M5G</b>	M5 (8)			(8)	
<b>O6G</b>	G1/8 (9)				(9)
<b>O8G</b>	G1/4 (10)				(10)

**D** Reduced wiring (lamp and surge suppressor provided as standard)  
Refer to the next page for electrical connections.

<b>E Terminal and connector pin wiring</b>						
<b>Blank</b>	Standard wiring (*4)	●	●	●	●	●
<b>W</b>	Double wiring (*4)	●	●	●	●	●
<b>W1</b>	Double wiring (with single spare wiring) (*4, *5)	●	●	●	●	●

**F Option**  
Refer to the next page for options.

<b>G Mount</b>						
<b>Blank</b>	Direct mount	●	●	●	●	●
<b>D</b>	DIN rail mount	●	●	●	●	●

<b>H Station No.</b>						
<b>2</b>	2 stations					
<b>to</b>	to	●	●	●	●	●
<b>20</b>	Refer to page 540 for the max. station number per port size.					

<b>I Voltage</b>						
<b>3</b>	24 VDC	●	●	●	●	●
<b>4</b>	12 VDC	●	●	●	●	●

<b>J Clean room specifications (*12, 13, 14)</b>						
	Structure	Material restriction				
<b>P70</b>	Exhaust treatment	-	●	●	●	●
<b>P74</b>	Exhaust treatment	Copper-silicon-halogen-based materials (fluorine, chlorine, bromine) are prohibited	○	○	○	○

is not available.

# M<sub>4</sub>GA1/2/3-T\*(D) Series

Reduced wiring manifold; body piping

			A Model No.					
			3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
<b>D Reduced wiring (lamp and surge suppressor provided as standard) 12/24 VDC</b>								
T10	Common terminal block	Left side specifications	●	●	●	●	●	●
T10R	(M3 thread)	Right side specifications	●	●	●	●	●	●
T11	Common terminal block (clamping)	Left side specifications	●	●	●	●	●	●
T11R		Right side specifications	●	●	●	●	●	●
T30	D sub-connector	Left side specifications	●	●	●	●	●	●
T30R		Right side specifications	●	●	●	●	●	●
T50	20 pin flat cable connector (with power supply terminal)	Left side specifications	●	●	●	●	●	●
T50R		Right side specifications	●	●	●	●	●	●
T51	20 pin flat cable connector (without power supply terminal)	Left side specifications	●	●	●	●	●	●
T51R		Right side specifications	●	●	●	●	●	●
T52	10 pin flat cable connector (without power supply terminal)	Left side specifications	●	●	●	●	●	●
T52R		Right side specifications	●	●	●	●	●	●
T53	26 pin flat cable connector (without power supply terminal)	Left side specifications	●	●	●	●	●	●
T53R		Right side specifications	●	●	●	●	●	●
<b>D Serial transmission (lamp and surge suppressor provided as standard) 24 VDC</b>								
T6G1	CC-Link	NPN 16 points	●	●	●	●	●	●
T8G1	CC-Link	NPN 16 points	●	●	●	●	●	●
T8G2		NPN 32 points	●	●	●	●	●	●
T8GP1		PNP 16 points	●	●	●	●	●	●
T8GP2		PNP 32 points	●	●	●	●	●	●
T8P1	PROFIBUS-DP	NPN 16 points	●	●	●	●	●	●
T8P2		NPN 32 points	●	●	●	●	●	●
T8PP1		PNP 16 points	●	●	●	●	●	●
T8PP2		PNP 32 points	●	●	●	●	●	●
T8EC1	EtherCAT	NPN 16 points	●	●	●	●	●	●
T8EC2		NPN 32 points	●	●	●	●	●	●
T8ECP1		PNP 16 points	●	●	●	●	●	●
T8ECP2		PNP 32 points	●	●	●	●	●	●
T8EN1	EtherNet/IP	NPN 16 points	●	●	●	●	●	●
T8EN2		NPN 32 points	●	●	●	●	●	●
T8ENP1		PNP 16 points	●	●	●	●	●	●
T8ENP2		PNP 32 points	●	●	●	●	●	●
T8D1	DeviceNet	NPN 16 points	●	●	●	●	●	●
T8D2		NPN 32 points	●	●	●	●	●	●
T8DP1		PNP 16 points	●	●	●	●	●	●
T8DP2		PNP 32 points	●	●	●	●	●	●
T8EB1	CC-Link IEF Basic	NPN 16 points	●	●	●	●	●	●
T8EB2		NPN 32 points	●	●	●	●	●	●
T8EBP1		PNP 16 points	●	●	●	●	●	●
T8EBP2		PNP 32 points	●	●	●	●	●	●
T8EF1	CC-Link IE Field	NPN 16 points	●	●	●	●	●	●
T8EF2		NPN 32 points	●	●	●	●	●	●
T8EFP1		PNP 16 points	●	●	●	●	●	●
T8EFP2		PNP 32 points	●	●	●	●	●	●
T8EP1	PROFINET	NPN 16 points	●	●	●	●	●	●
T8EP2		NPN 32 points	●	●	●	●	●	●
T8EPP1		PNP 16 points	●	●	●	●	●	●
T8EPP2		PNP 32 points	●	●	●	●	●	●
T8KC1	IO-Link	NPN 16 points	●	●	●	●	●	●
T8KC2		NPN 32 points	●	●	●	●	●	●
T8KCP1		PNP 16 points	●	●	●	●	●	●
T8KCP2		PNP 32 points	●	●	●	●	●	●
A2N	Without lead wire (no socket)	with surge suppressor and indicator lamp	●	●	●	●	●	●
<b>F Option</b>								
Blank	Manual override of non-locking/locking common		●	●	●	●	●	●
M	Manual override of non-locking		●	●	●	●	●	●
H	With exhaust check valve	(*6)	●	●	●	●	●	●
K	External pilot	(*7)	●	●	●	●	●	●
A	Ozone/coolant proof		●	●	●	●	●	●
S	Surgeless	(*8)	●	●	●	●	●	●
E	Low exoergic/energy circuit	(*8) (*9)	●	●	●	●	●	●
F	Built-in A/B port filter	(*10)	●	●	●	●	●	●
Z1	Air supply spacer	(*11)	●	●	●	●	●	●
Z3	Exhaust spacer	(*11)	●	●	●	●	●	●

Ozone proof specifications

Cutting oil prohibited specifications

Can be selected with "How to order" Item option "A".

## ⚠ Precautions for model No. selection

- \*6: 3-position all ports closed and PAB connection are not provided with the exhaust check valve (H). Refer to page 751 for details on the exhaust check valve.
- \*7: For details of vacuum using with the external pilot (K), consult CKD.
- \*8: Selecting a combination of surgeless "S" and the low exoergic/energy-saving circuit "E" is not allowed.
- \*9: Applicable to surgeless specifications
- \*10: P port is equipped with a filter as standard.
- \*11: The mounting position and the quantity of spacers should be specified in the manifold specifications of each catalog. Stacking multiple spacers is not supported. Combination with the masking plate is not supported. Refer to pages 592 to 595 for details.
- \*12: A (ozone compatible) and  clean room specifications P74 cannot be combined.
- \*13: Specifications which do not allow copper-based/silicon-based/halogen-based materials apply to the main valve section.
- \*14: P74 Series is a custom order product.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

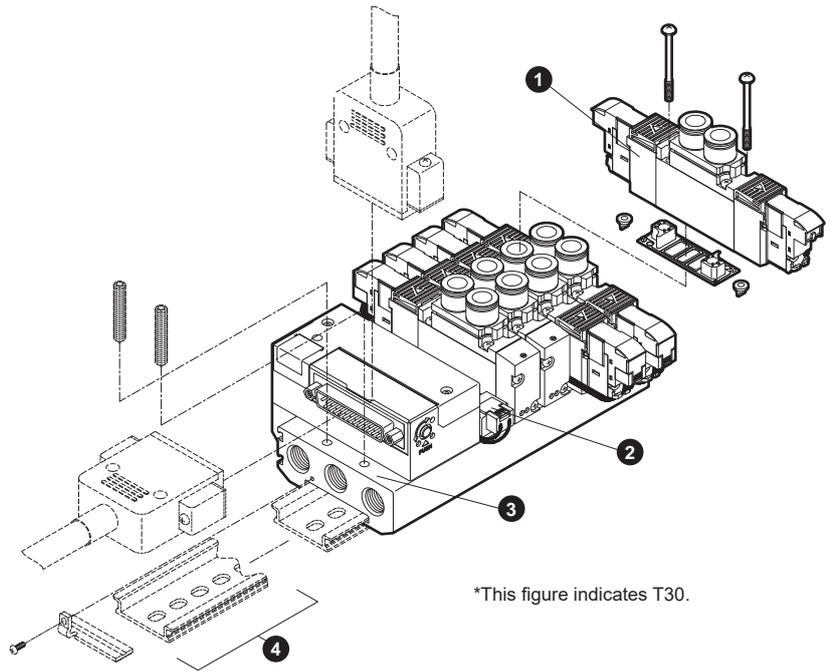
# M4GA1/2/3-T\*(D) Series

Reduced wiring manifold; body piping

## Manifold components explanation and parts list

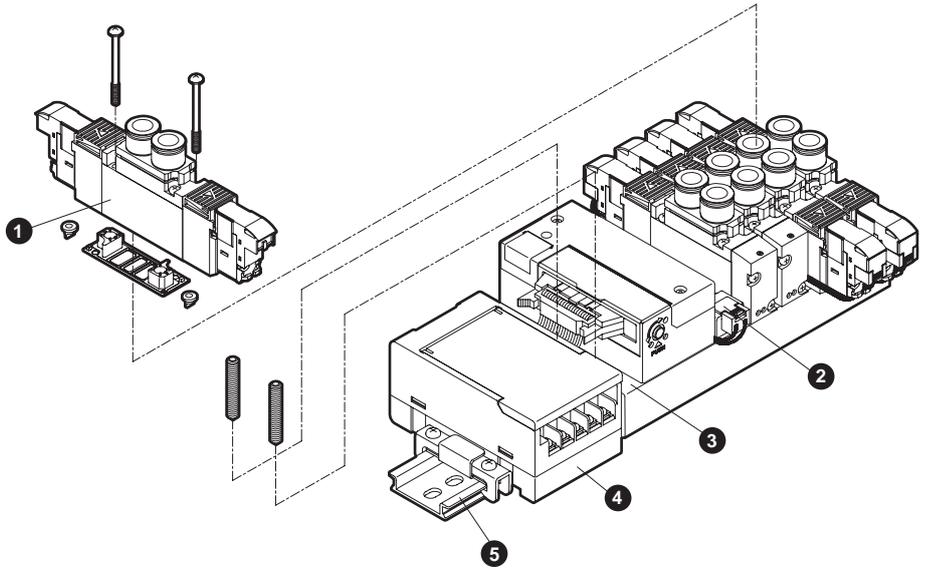
SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder switch
MN3E MN4E
4GA/B
<b>M4GA/B</b>
MN4GA/B
F.R (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

- T10 / T10R
- T11 / T11R
- T30 / T30R
- T50 / T50R
- T51 / T51R
- T52 / T52R
- T53 / T53R

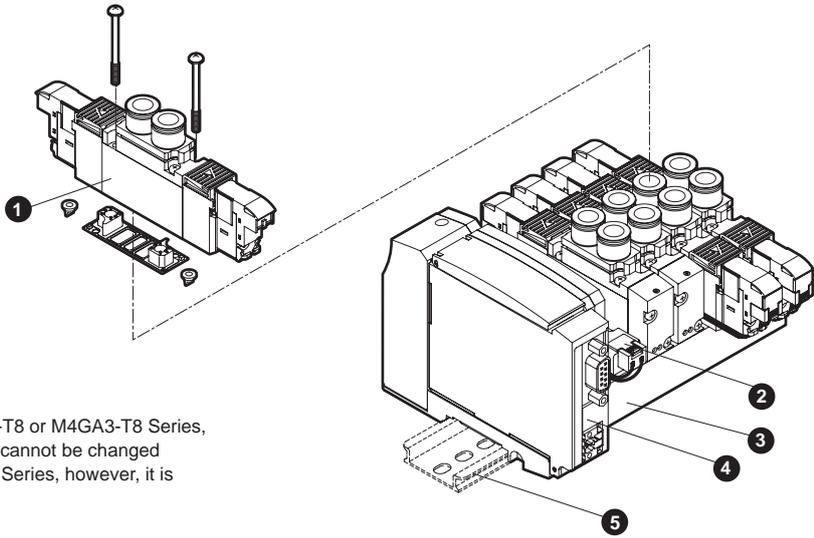


\*This figure indicates T30.

- T6G1



- T8\*



\* When purchasing M4GA2-T8 or M4GA3-T8 Series, its mount (direct, DIN rail) cannot be changed afterward. For M4GA1-T8 Series, however, it is changeable.

# M<sub>4</sub>GA1/2/3-T\*(D) Series

Reduced wiring manifold; direct piping; serial transmission

## Main components list

No.	Component name	Model No.	Descriptions	Remarks
1	Discrete valve for mounting base	4GA□□9R- <div style="display: flex; justify-content: space-around; font-size: small;"> <span>Port size</span> <span>A2N</span> <span>Option</span> <span>Voltage</span> </div> <div style="margin-left: 20px;"> <span>P70</span>  <span>P74</span> </div> <div style="margin-left: 20px;"> <span>Solenoid position</span>  <span>Series flow rate size</span> </div>	Discrete valve Gasket Set screw 2 PR check valve 2	Details on page 542
2	Masking plate	3G1/4G1 4G1R-MP-P70 3G2/4G2 4G2R-MP-P70 3G3/4G3 4G3R-MP-P70	Masking plate Gasket Set screw 2	* 3G3/4G3 have two PR check valves.
3	Manifold base assembly	M4GA□R-00- <div style="display: flex; justify-content: space-around; font-size: small;"> <span>T56</span> <span>Option</span> <span>Station No.</span> </div> <div style="margin-left: 20px;"> <span>P70</span> </div> <div style="margin-left: 20px;"> <span>Series flow rate size</span> </div>	Manifold base Electrical block	
4	Serial transmission slave unit	4GR-OPP3 - 4GR-OPP7 - <div style="display: flex; justify-content: space-around; font-size: small;"> <span>Wiring method</span> </div>	Serial transmission slave unit	Details on page 560
5	DIN rail kit	4GA□R-BAA <div style="display: flex; justify-content: space-around; font-size: small;"> <span>Rail length</span> <span>option D</span> </div> <div style="margin-left: 20px;"> <span>Series flow rate size</span> </div>		Details on page 599

## Parts list

No.	Parts name	Model No.	No.	Parts name	Model No.	
-	Coil assembly	4GR-A2N-□-COIL- <div style="display: flex; justify-content: space-around; font-size: small;"> <span>Voltage</span> </div> <div style="margin-left: 20px;"> <span>P70</span> </div> <div style="margin-left: 20px;">           Blank: Standard            A: Ozone/cutting oil compatible            S: Surgeless            E: Low exoergic/energy-saving circuit            K: External pilot         </div>	-	Cartridge push-in fittings and related parts	4G1	<div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø1.8 barbed</span> <span>4G1R-JOINT-CF-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø1.8 straight</span> <span>4G1R-JOINT-C18-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø4 straight</span> <span>4G1R-JOINT-C4-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø6 straight</span> <span>4G1R-JOINT-C6-P70</span> </div>
-	A type connector Socket assembly Details on page 737	4G□R-SOCKET-ASSY-A□□- <div style="display: flex; justify-content: space-around; font-size: x-small;"> <span>Row No.</span> </div> <div style="margin-left: 20px;"> <span>P70</span> </div> <div style="margin-left: 20px;">           Blank: Left side, R: Right side            A: aSOL side, B: bSOL side            n: Specify the position of the valve to be connected         </div>	-		4G1	<div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø1/8" straight</span> <span>4G1R-JOINT-C3N-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø5/32" straight</span> <span>4G1R-JOINT-C4N-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>Plug cartridge</span> <span>4G1R-JOINT-CPG-P70</span> </div>
					4G2	<div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø4 straight</span> <span>4G2R-JOINT-C4-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø6 straight</span> <span>4G2R-JOINT-C6-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø8 straight</span> <span>4G2R-JOINT-C8-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø1/4" straight</span> <span>4G2R-JOINT-C6N-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø5/16" straight</span> <span>4G2R-JOINT-C8N-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>Plug cartridge</span> <span>4G2R-JOINT-CPG-P70</span> </div>
					4G3	<div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø6 straight</span> <span>4G3R-JOINT-C6-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø8 straight</span> <span>4G3R-JOINT-C8-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø10 straight</span> <span>4G3R-JOINT-C10-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø5/16" straight</span> <span>4G3R-JOINT-C8N-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>ø3/8" straight</span> <span>4G3R-JOINT-C10N-P70</span> </div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <span>Plug cartridge</span> <span>4G3R-JOINT-CPG-P70</span> </div>

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# M4GA1-T\* Series

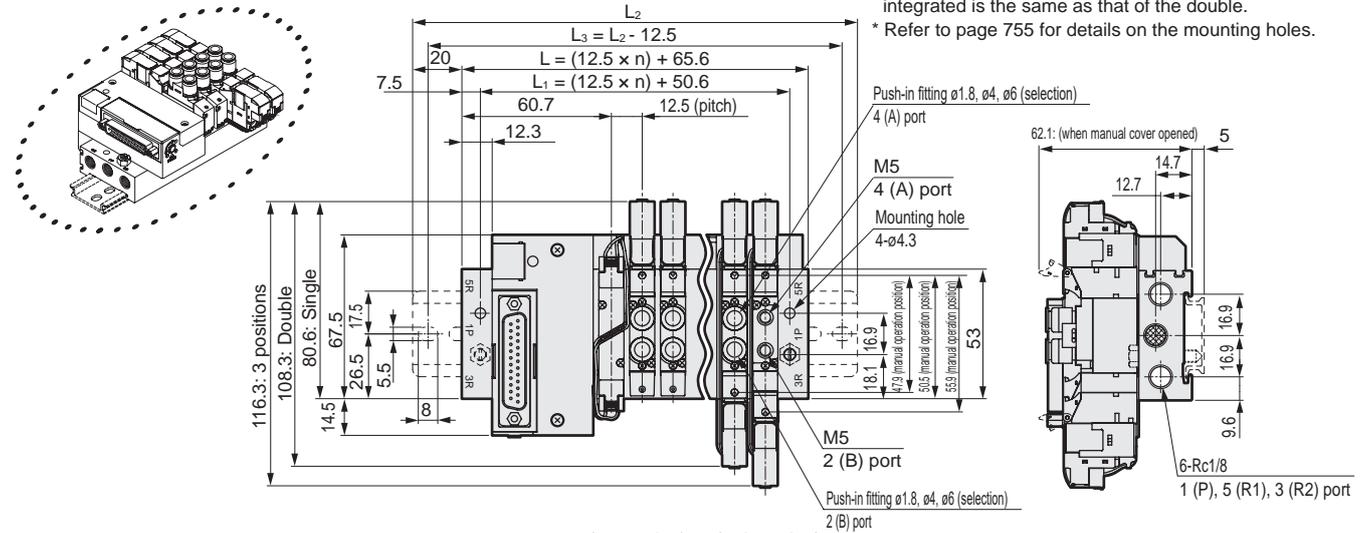
Reduced wiring manifold; body piping

## Dimensions

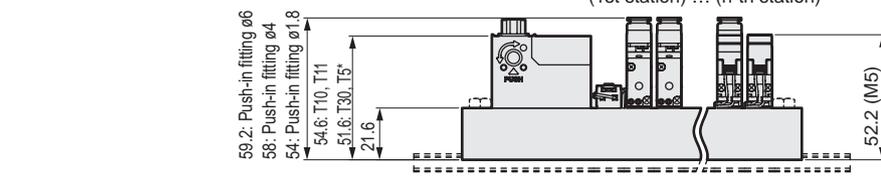


### M4GA1-P7\*

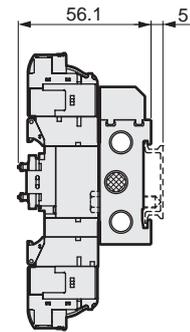
● Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)



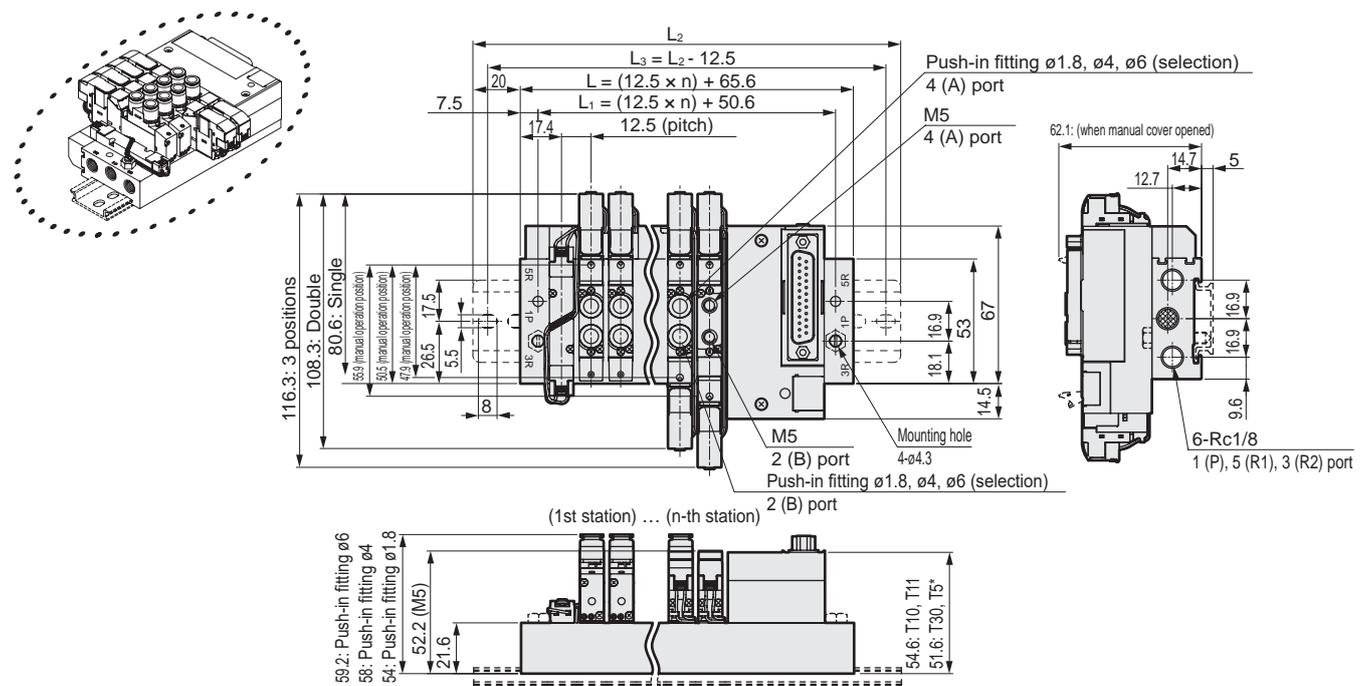
\* This drawing shows the T30. Refer to pages 558 to 559 for detailed dimensions of the electric block.  
 \* For the 2-position single 3-port valve, the port A or port B is a plug. The dimension of the dual 3-port valve integrated is the same as that of the double.  
 \* Refer to page 755 for details on the mounting holes.



● ø1.8 barbed fitting (CF)



● Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	90.6	103.1	115.6	128.1	140.6	153.1	165.6	178.1	190.6	203.1	215.6	228.1	240.6	253.1	265.6	278.1	290.6	303.1	315.6
L1	75.6	88.1	100.6	113.1	125.6	138.1	150.6	163.1	175.6	188.1	200.6	213.1	225.6	238.1	250.6	263.1	275.6	288.1	300.6
L2	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L3	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

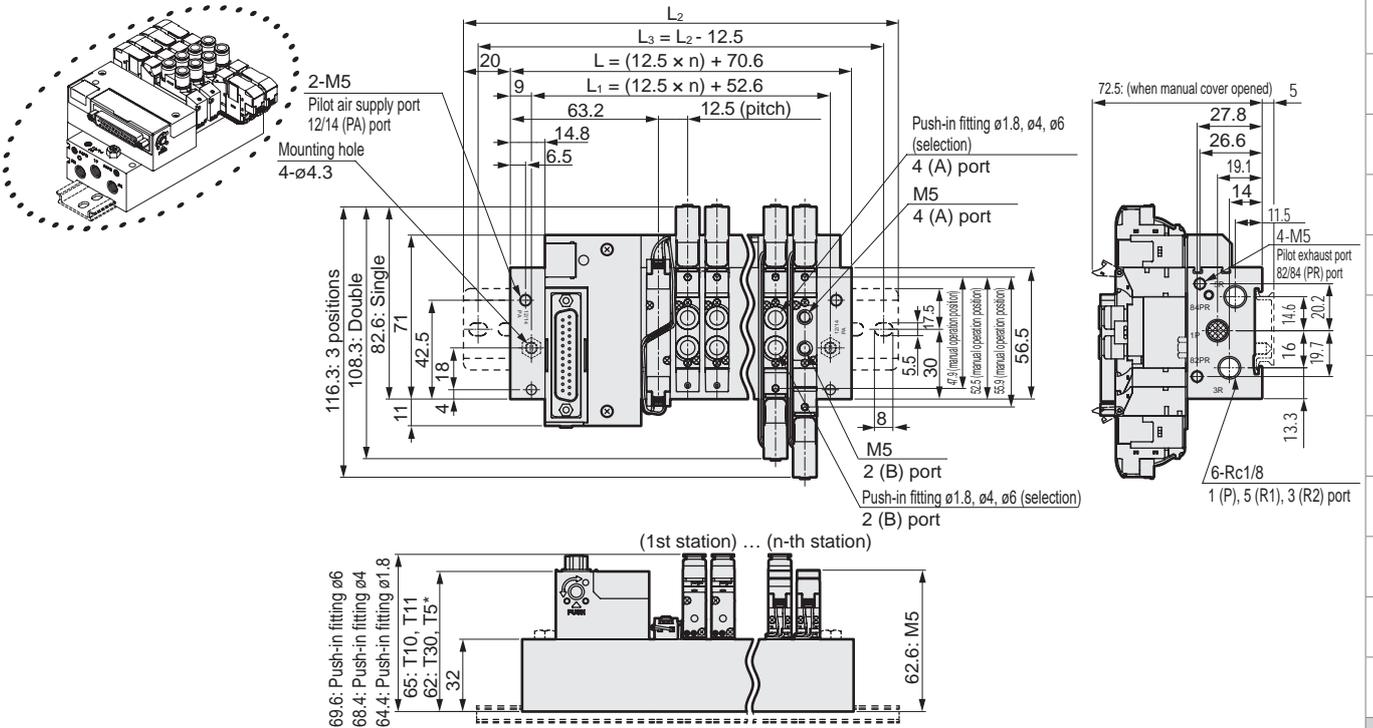
### Dimensions



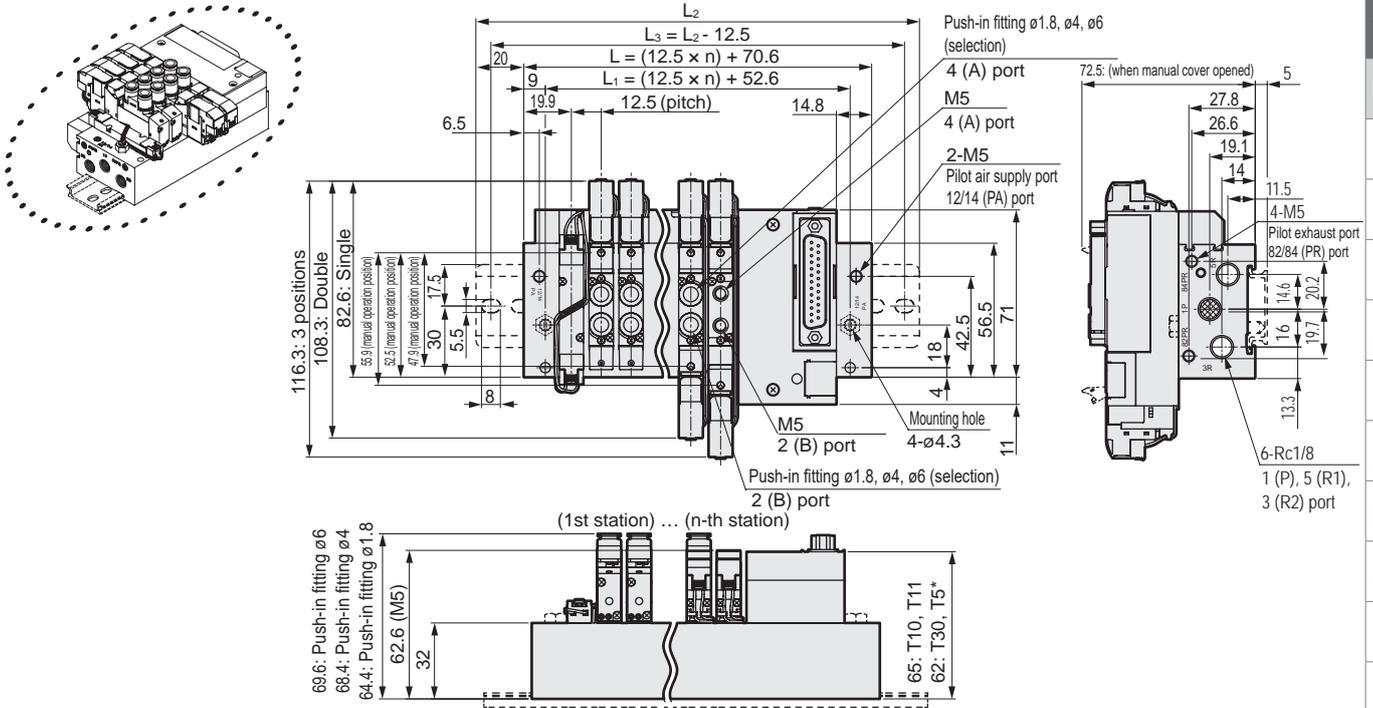
#### M4GA1-P7\*

- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)

- \* This drawing shows the T30. Refer to pages 558 to 559 for detailed dimensions of the electric block.
- \* For 2-position single 3-port valve, port A or port B is a plug.
- \* Refer to page 755 for details on the mounting holes.



- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



Station No.	2	3	4	5	6	7	8	9	10	11	12
L	95.6	108.1	120.6	133.1	145.6	158.1	170.6	183.1	195.6	208.1	220.6
L <sub>1</sub>	77.6	90.1	102.6	115.1	127.6	140.1	152.6	165.1	177.6	190.1	202.6
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# M4GA1-T6D Series

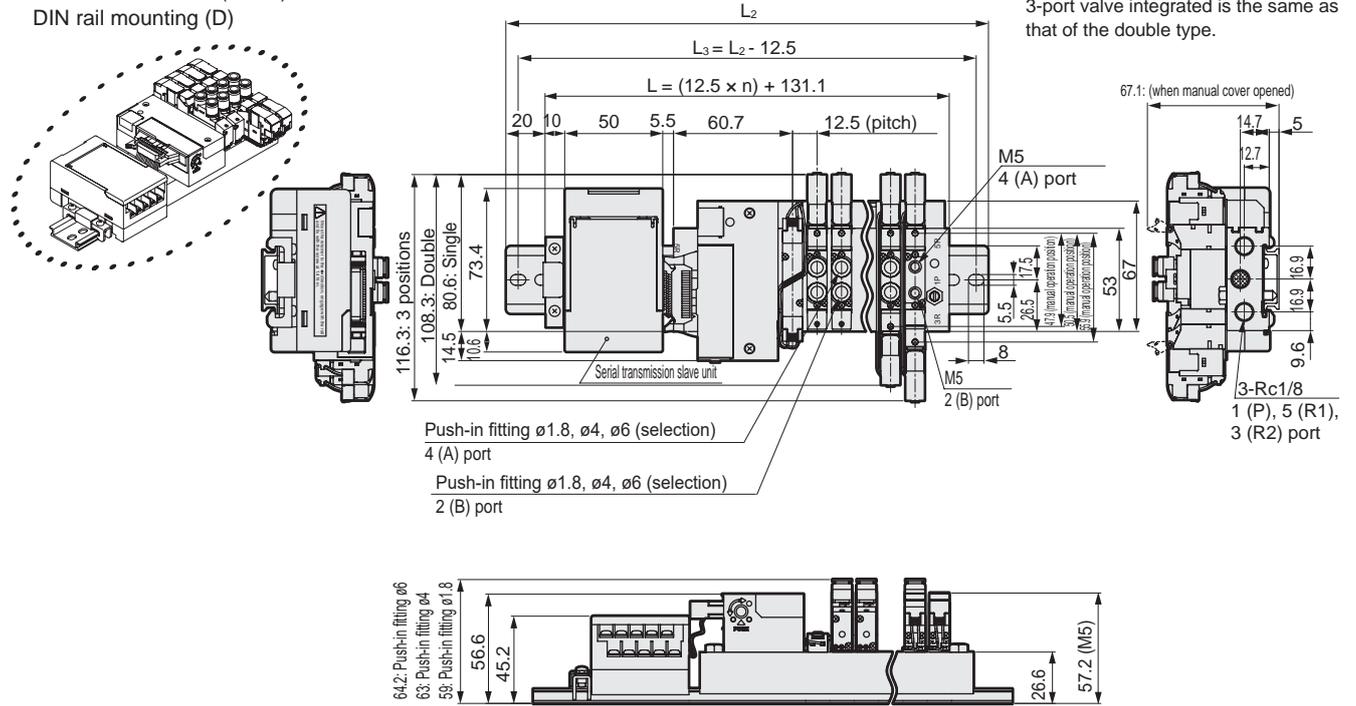
Reduced wiring manifold; direct piping; serial transmission

## Dimensions

### M4GA1-P7\*

- Serial transmission (T6G1)
- DIN rail mounting (D)

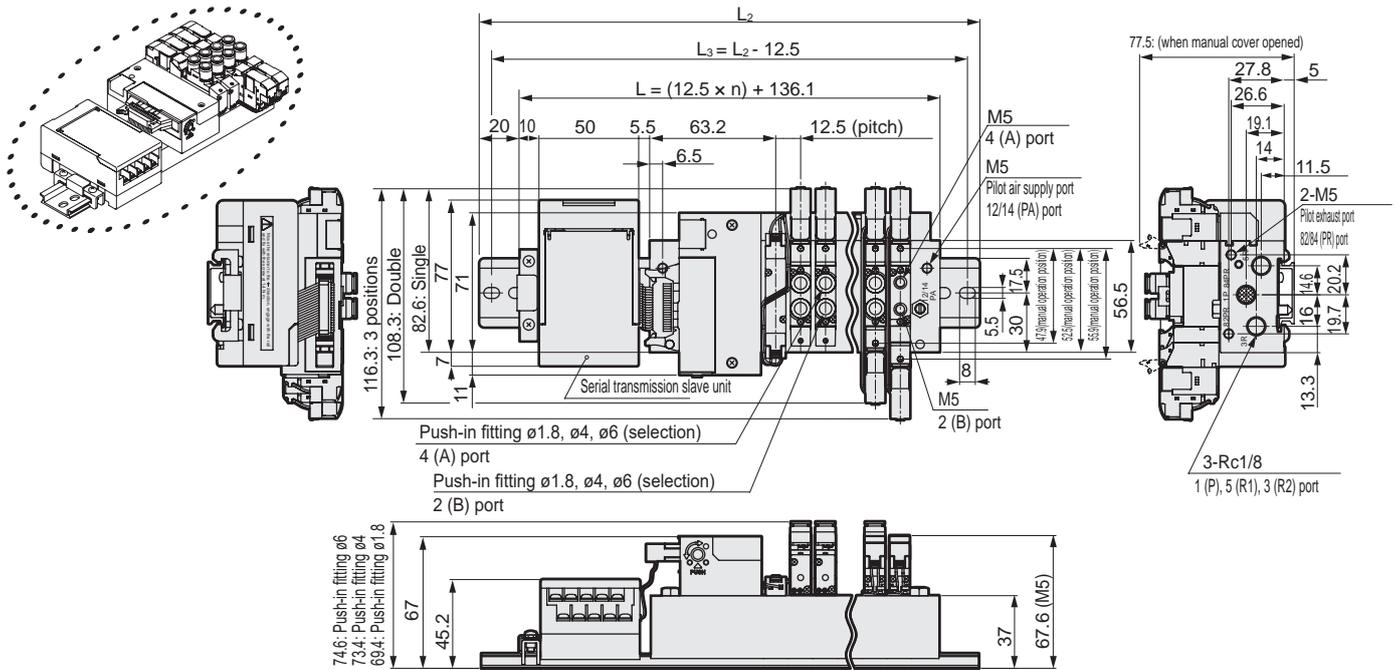
\* With the 2-position single 3-port valve, either the A port or B port will be plugged. The dimension of the dual 3-port valve integrated is the same as that of the double type.



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	156.1	168.6	181.1	193.6	206.1	218.6	231.1	243.6	256.1	268.6	281.1	293.6	306.1	318.6	331.1
L <sub>2</sub>	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0
L <sub>3</sub>	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5

### M4GA1-P7\*

- Serial transmission (T6G1)
- DIN rail mounting (D); external pilot (K)



Station No.	2	3	4	5	6	7	8	9	10	11	12
L	161.1	173.6	186.1	198.6	211.1	223.6	236.1	248.6	261.1	273.6	286.1
L <sub>2</sub>	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5
L <sub>3</sub>	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0

# M4GA1-T8\* Series

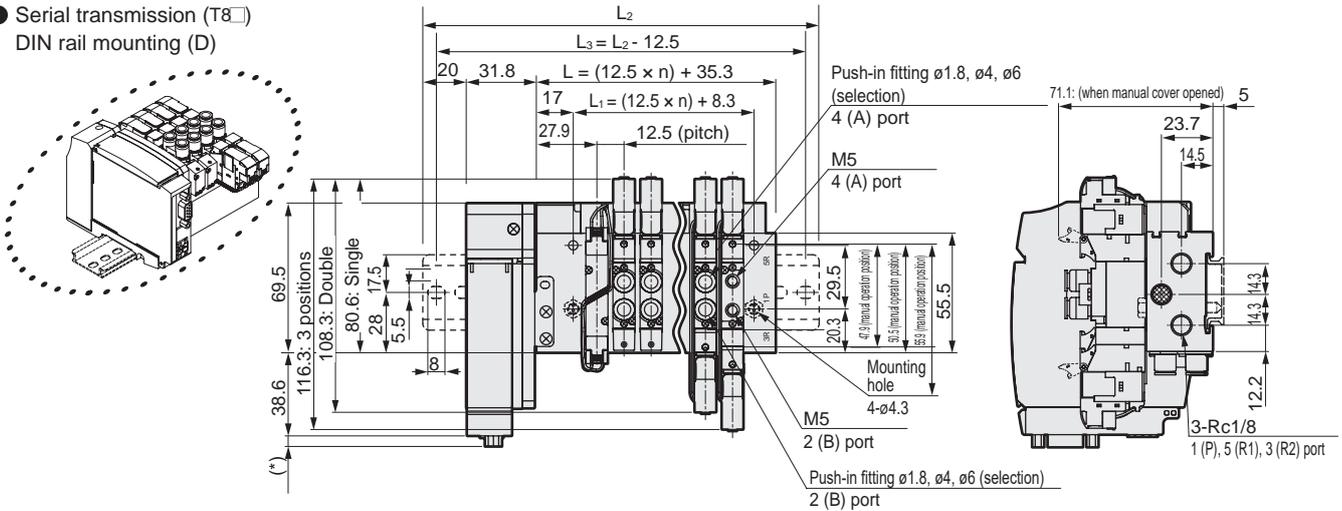
Reduced wiring manifold; direct piping; serial transmission

## Dimensions

### M4GA1-P7\*

- Serial transmission (T8□)
- DIN rail mounting (D)

\* Refer to page 755 for details on the mounting holes.

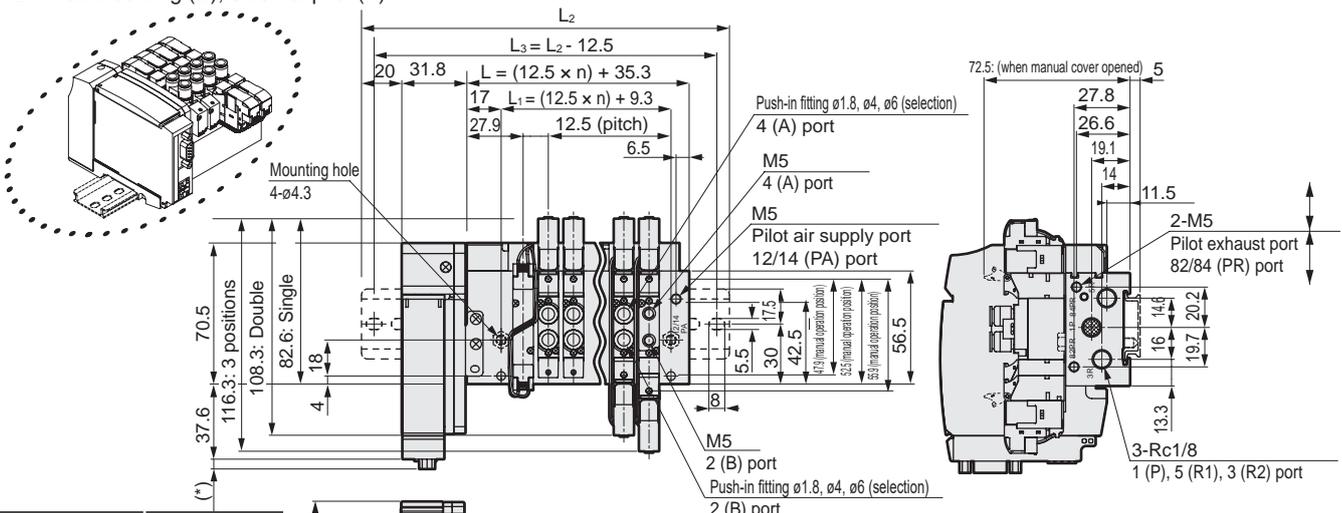


Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3	197.8	210.3	222.8	235.3	247.8	260.3	272.8	285.3
L <sub>1</sub>	33.3	45.8	58.3	70.8	83.3	95.8	108.3	120.8	133.3	145.8	158.3	170.8	183.3	195.8	208.3	220.8	233.3	245.8	258.3
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

### M4GA1-P7\*

- Serial transmission (T8□)
- DIN rail mounting (D); external pilot (K)



Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

Station No.	2	3	4	5	6	7	8	9	10	11	12
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3
L <sub>1</sub>	34.3	46.8	59.3	71.8	84.3	96.8	109.3	121.8	134.3	146.8	159.3
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R. (module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/ tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending



# M4GA2-T\* Series

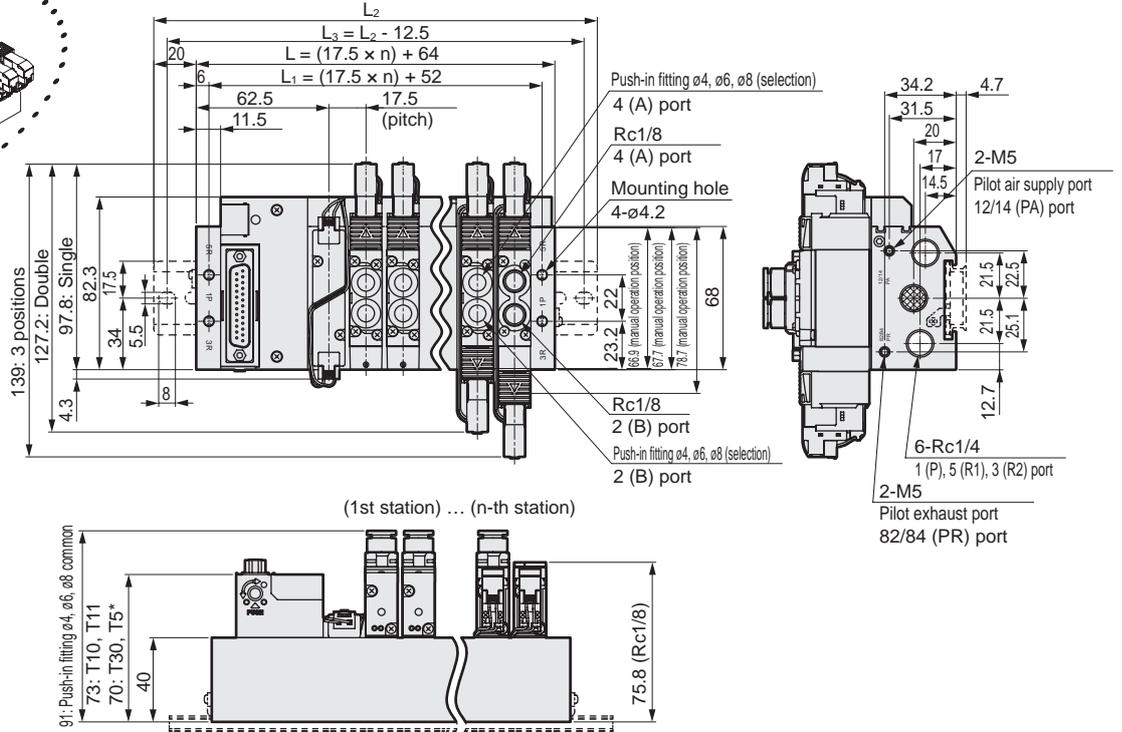
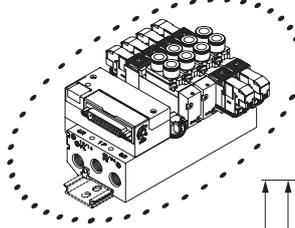
Reduced wiring manifold; body piping

## Dimensions

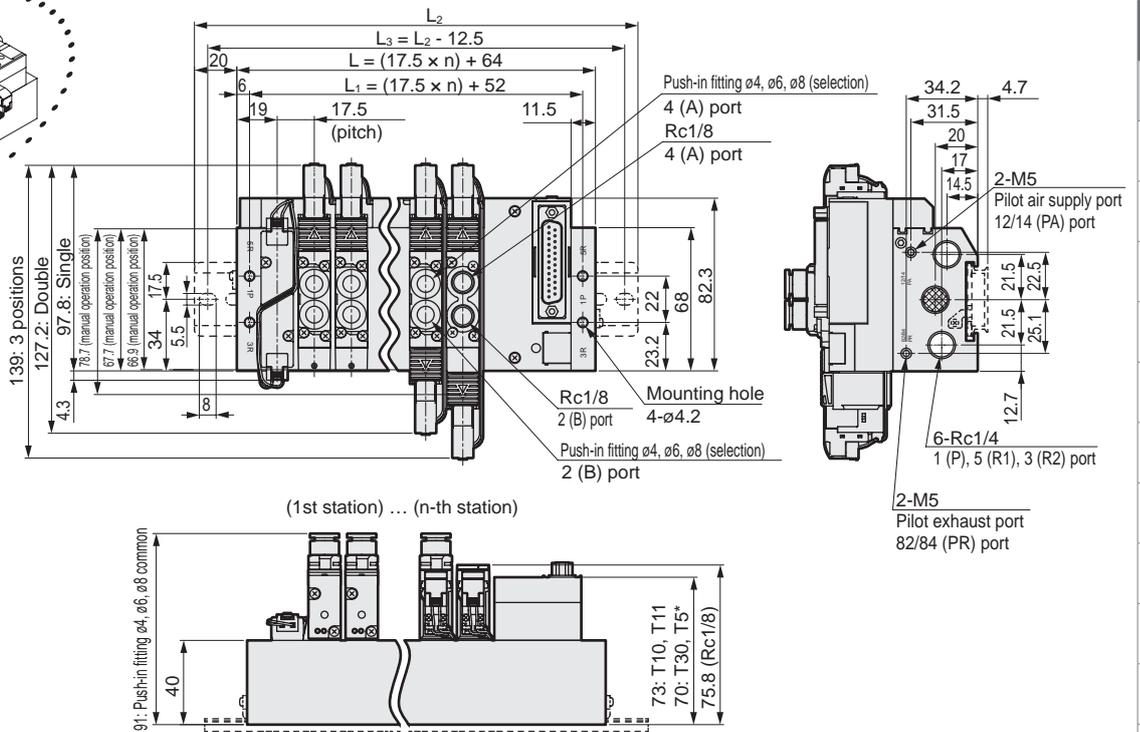
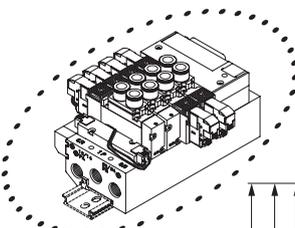


### M4GA2-P7\*

- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)



- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0	396.5	414.0
L <sub>1</sub>	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0	384.5	402.0
L <sub>2</sub>	150.0	162.5	175.0	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5				
L <sub>3</sub>	137.5	150.0	162.5	187.5	200.0	225.0	237.5	250.0	275.0	287.5	312.5	325.0	337.5	362.5	375.0				

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# M4GA2-T6D Series

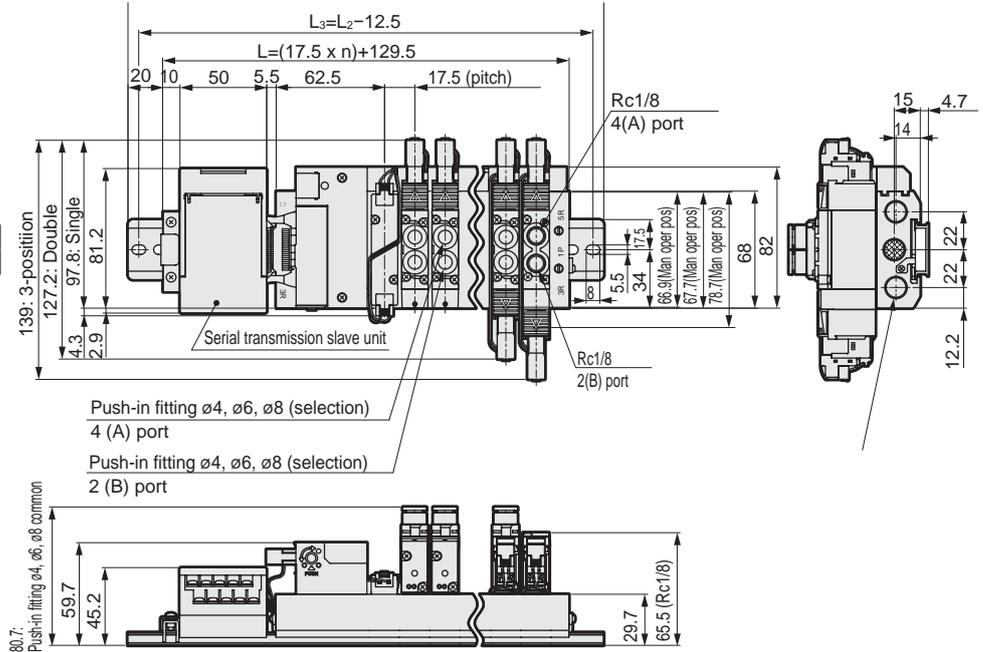
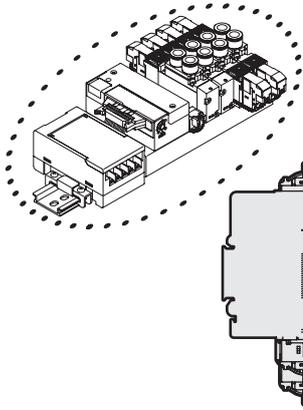
Reduced wiring manifold; direct piping; serial transmission

## Dimensions

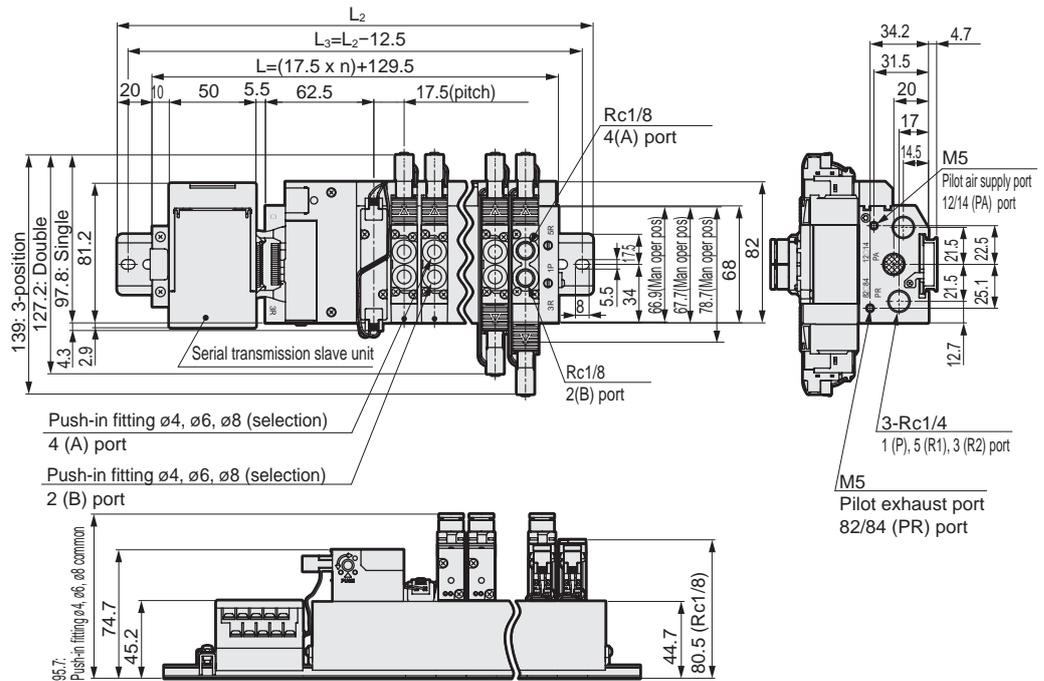
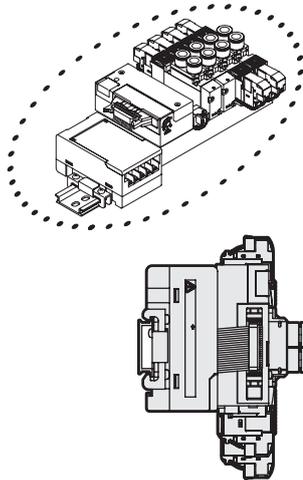
### M4GA2-P7\*

- Serial transmission (T6G1)  
DIN rail mounting (D)

\* For the 2-position single 3-port valve, the port A or port B is a plug. The dimension of the dual 3-port valve integrated is the same as that of the double type.



- Serial transmission (T6G1)  
DIN rail mounting (D); external pilot (K)



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	164.5	182.0	199.5	217.0	234.5	252.0	269.5	287.0	304.5	322.0	339.5	357.0	374.5	392.0	409.5
L <sub>2</sub>	212.5	225.0	250.0	262.5	275.0	300.0	312.5	337.5	350.0	362.5	387.5	400.0	425.0	437.5	450.0
L <sub>3</sub>	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5	412.5	425.0	437.5

# M4GA2-T8\* Series

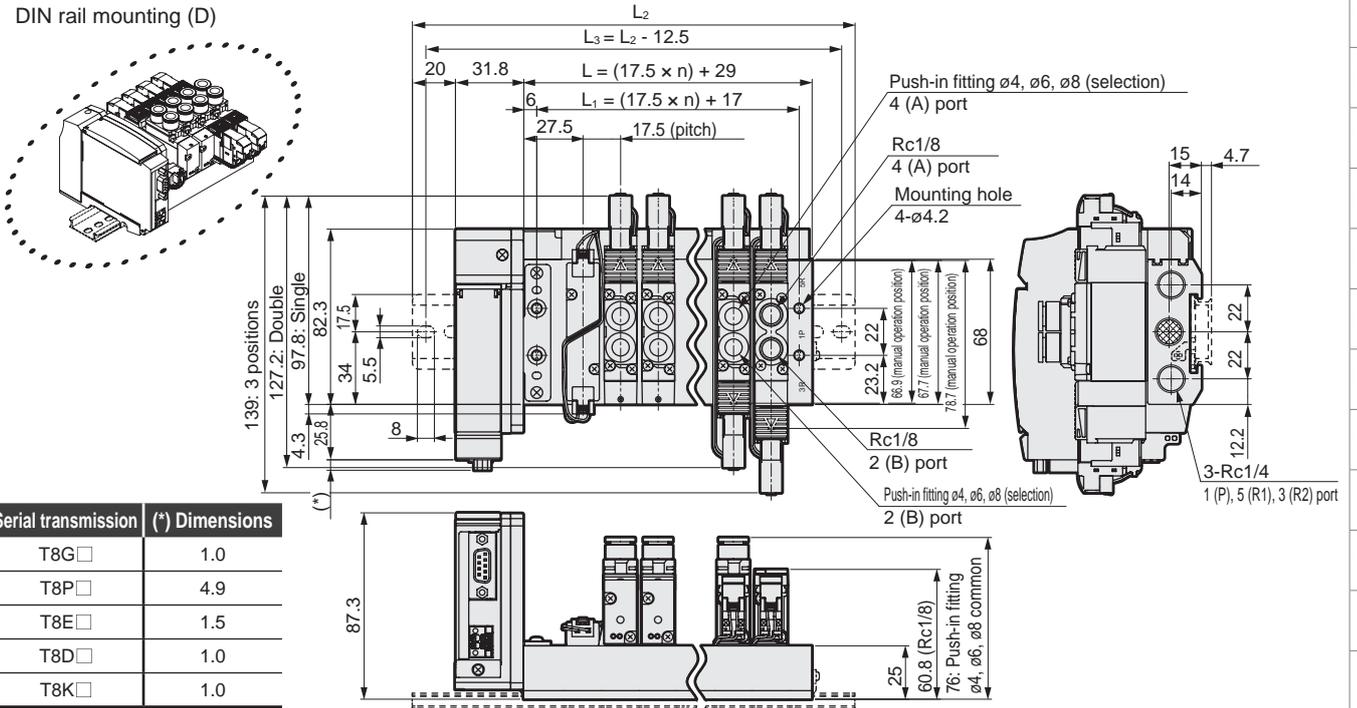
Reduced wiring manifold; direct piping; serial transmission

## Dimensions

### M4GA2-P7\*

- Serial transmission (T8□)
- DIN rail mounting (D)

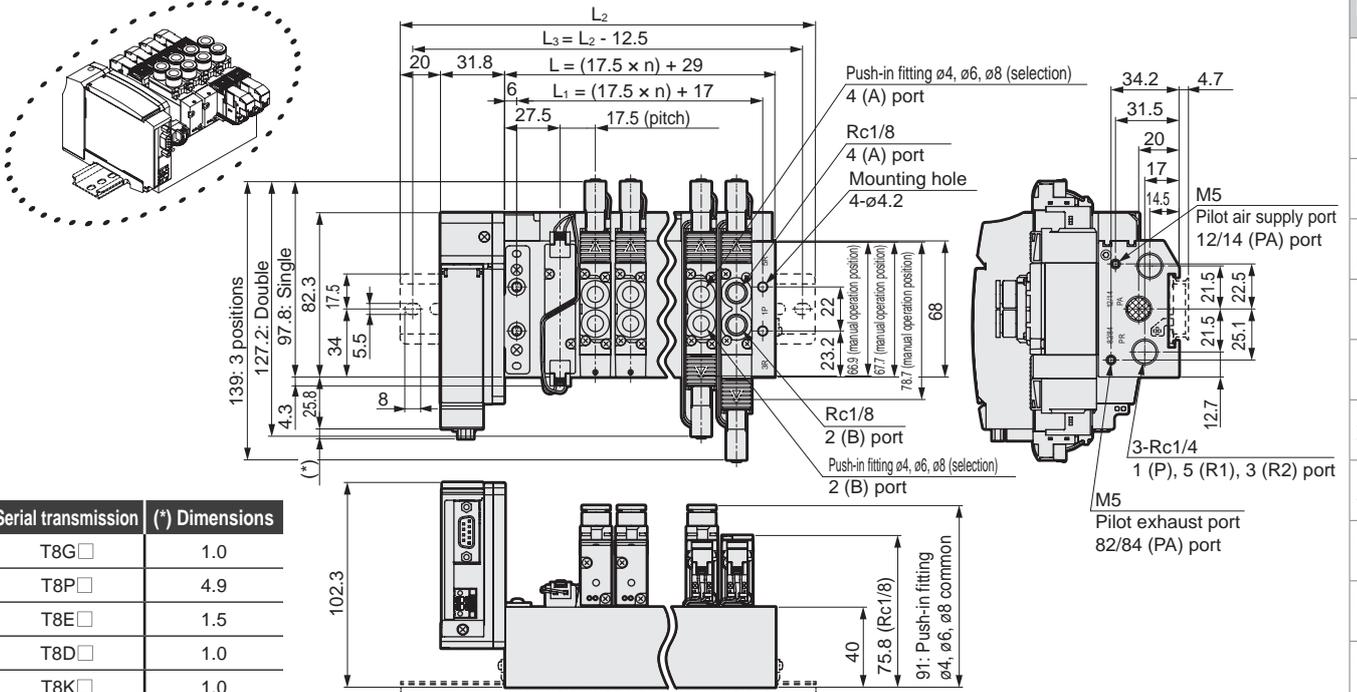
\* Refer to page 754 for details on the mounting holes.



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L <sub>1</sub>	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L <sub>2</sub>	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L <sub>3</sub>	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

### M4GA2-P7\*

- Serial transmission (T8□)
- DIN rail mounting (D); external pilot (K)



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L <sub>1</sub>	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L <sub>2</sub>	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L <sub>3</sub>	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R. (module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/ tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

# M4GA3-T\* Series

Reduced wiring manifold; body piping

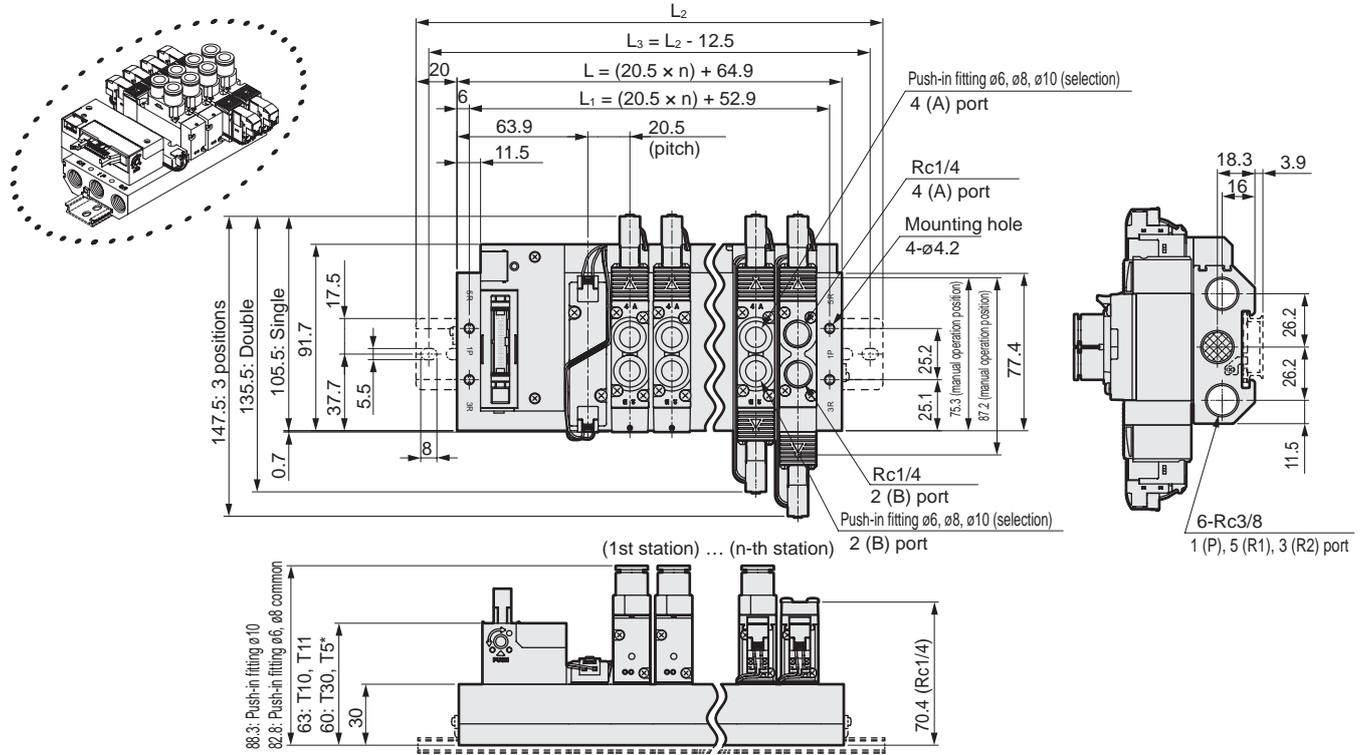
## Dimensions



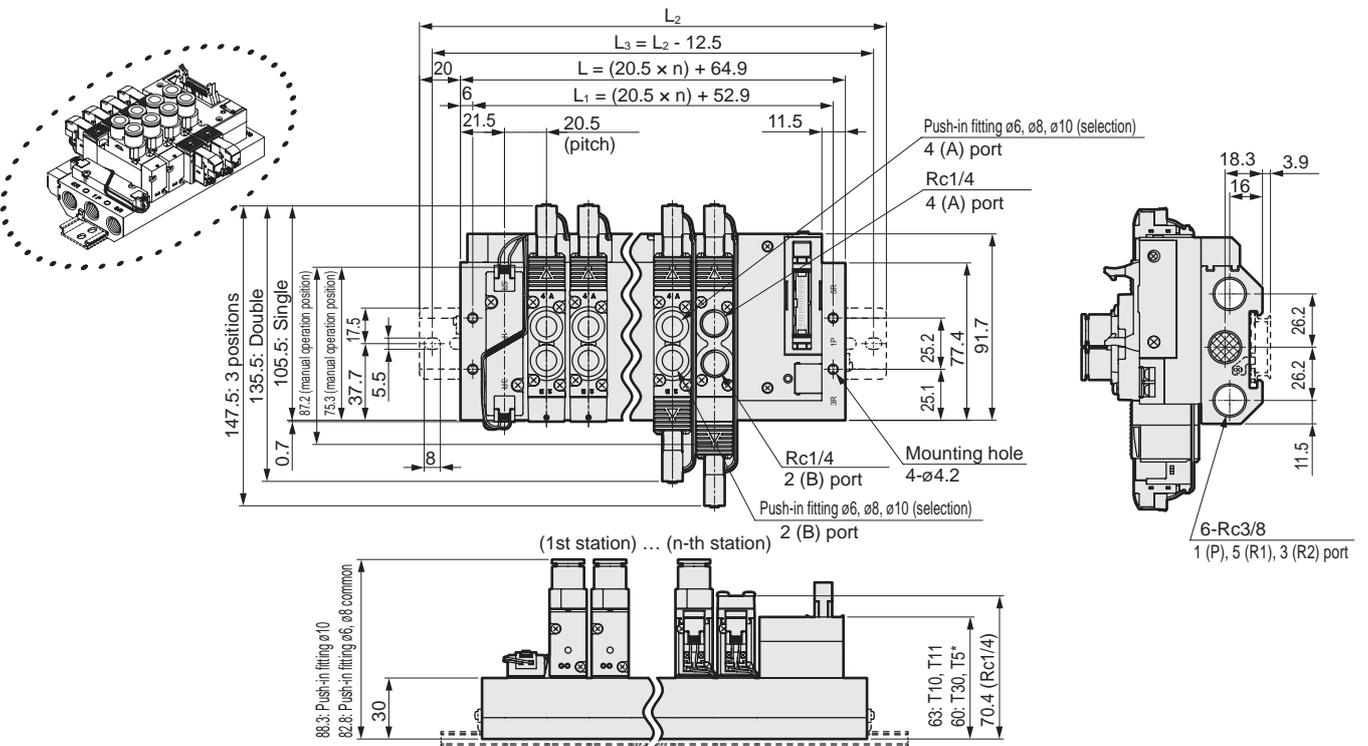
### M4GA3-P7\*

● Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)

\* This drawing shows the T50. Refer to pages 558 to 559 for detailed dimensions of the electric block.  
 \* For 2-position single 3-port valve, port A or port B is a plug.  
 \* Refer to page 754 for details on the mounting holes.



● Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	105.9	126.4	146.9	167.4	187.9	208.4	228.9	249.4	269.9	290.4	310.9	331.4	351.9	372.4	392.9
L1	93.9	114.4	134.9	155.4	175.9	196.4	216.9	237.4	257.9	278.4	298.9	319.4	339.9	360.4	380.9
L2	150.0	175.0	187.5	212.5	237.5	250.0	275.0	300.0	312.5	337.5	362.5	375.0	400.0	412.5	437.5
L3	137.5	162.5	175.0	200.0	225.0	237.5	262.5	287.5	300.0	325.0	350.0	362.5	387.5	400.0	425.0

# M4GA3-T\* Series

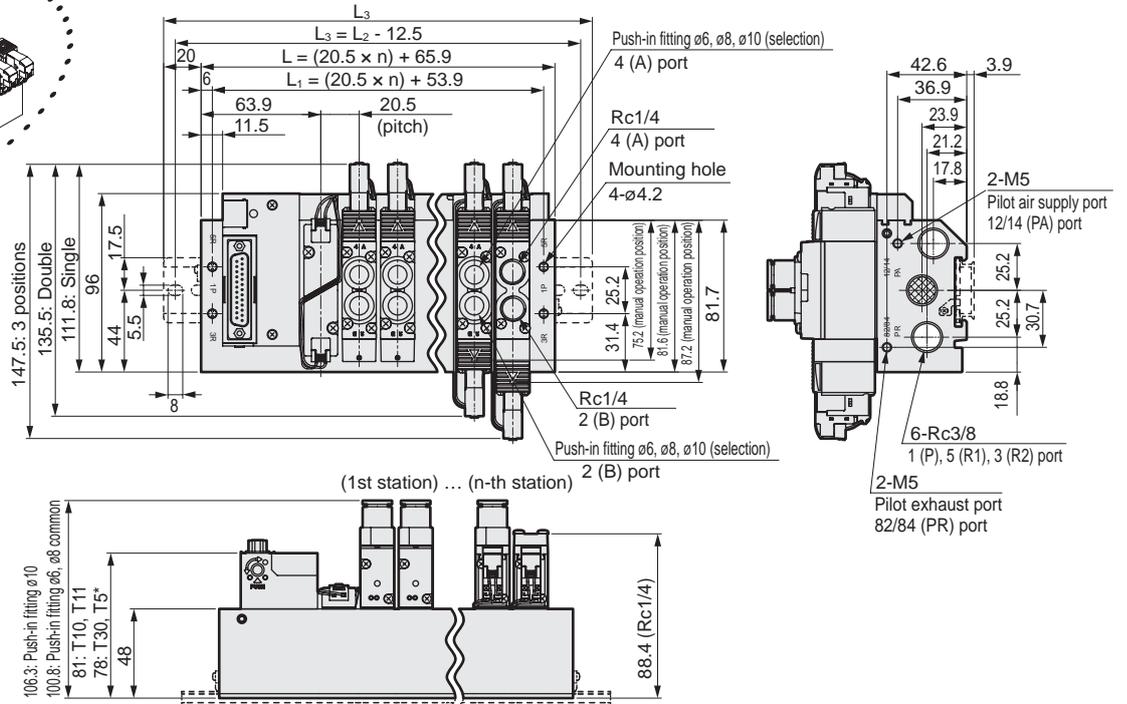
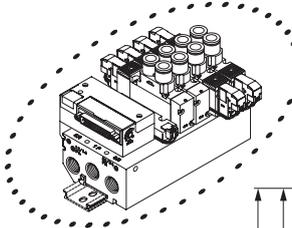
Reduced wiring manifold; body piping

## Dimensions

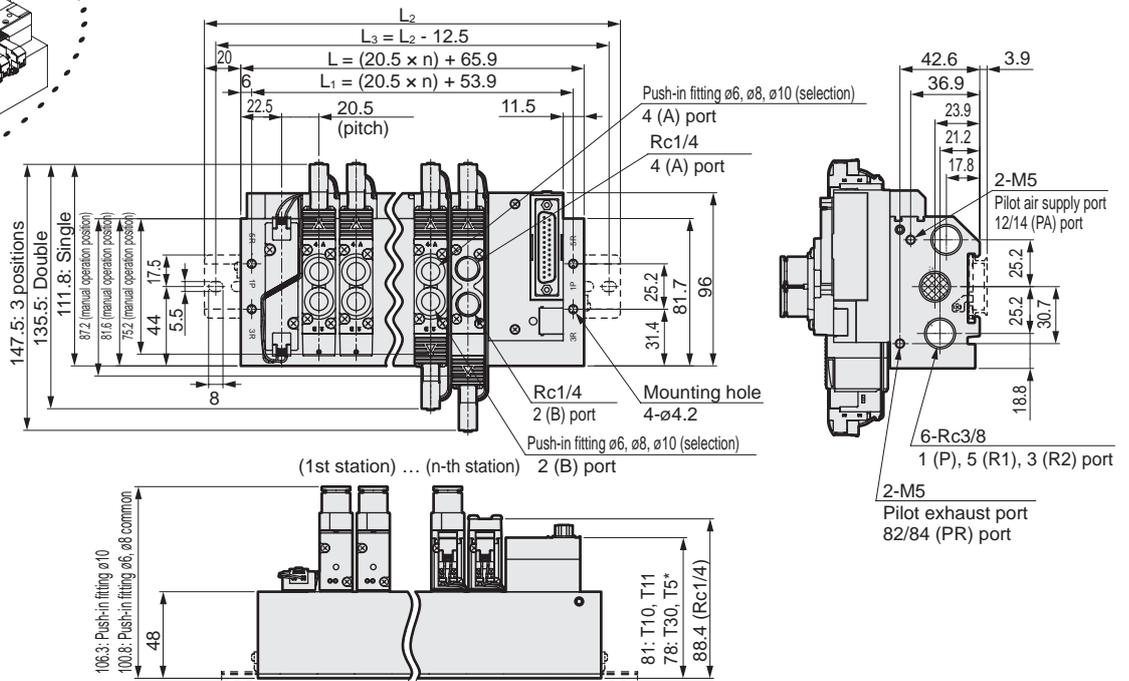
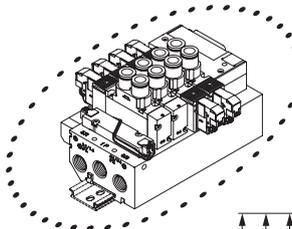


### M4GA3-P7\*

- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)



- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	106.9	127.4	147.9	168.4	188.9	209.4	229.9	250.4	270.9	291.4	311.9	332.4	352.9	373.4	393.9
L <sub>1</sub>	94.9	115.4	135.9	156.4	176.9	197.4	217.9	238.4	258.9	279.4	299.9	320.4	340.9	361.4	381.9
L <sub>2</sub>	150.0	175.0	200.0	212.5	237.5	250.0	275.0	300.0	312.5	337.5	362.5	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	187.5	200.0	225.0	237.5	262.5	287.5	300.0	325.0	350.0	362.5	387.5	400.0	425.0

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R. (module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

# M4GA3-T6G1 Series

Reduced wiring manifold; direct piping; serial transmission

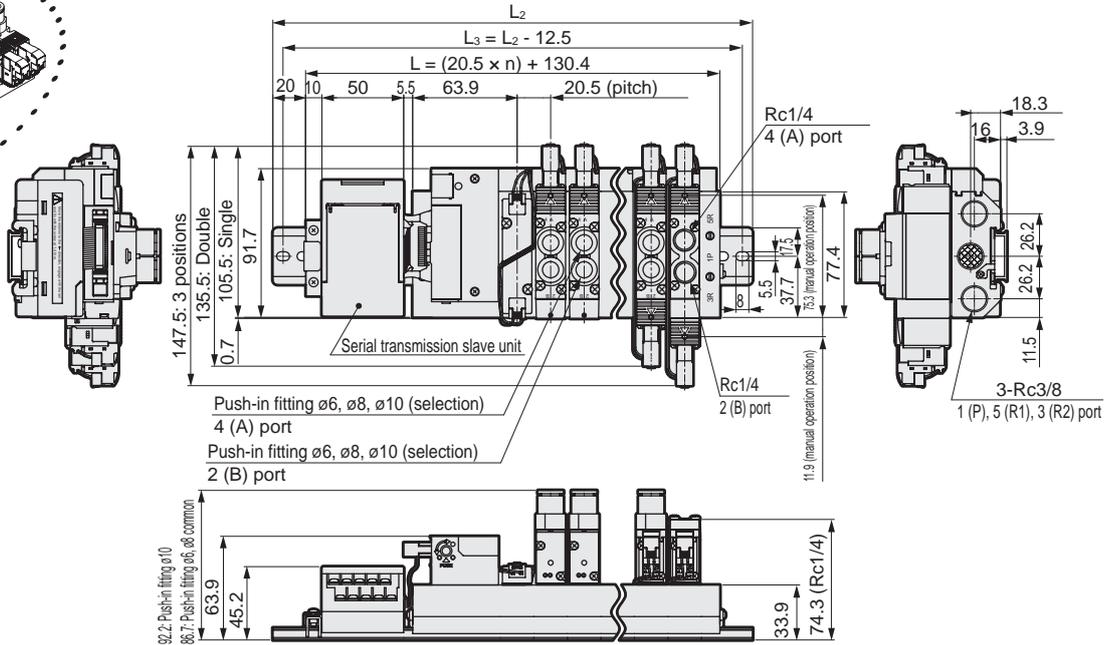
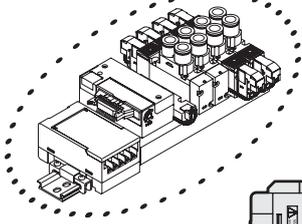
## Dimensions



### M4GA3-P7\*

- Serial transmission (T6G1)
- DIN rail mounting (D)

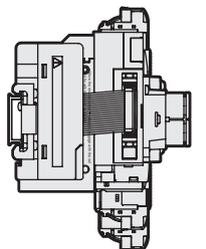
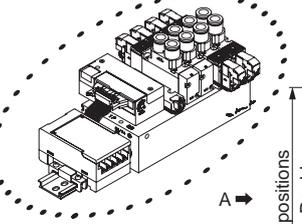
\* With the 2-position single 3-port valve, either the A port or B port will be plugged.



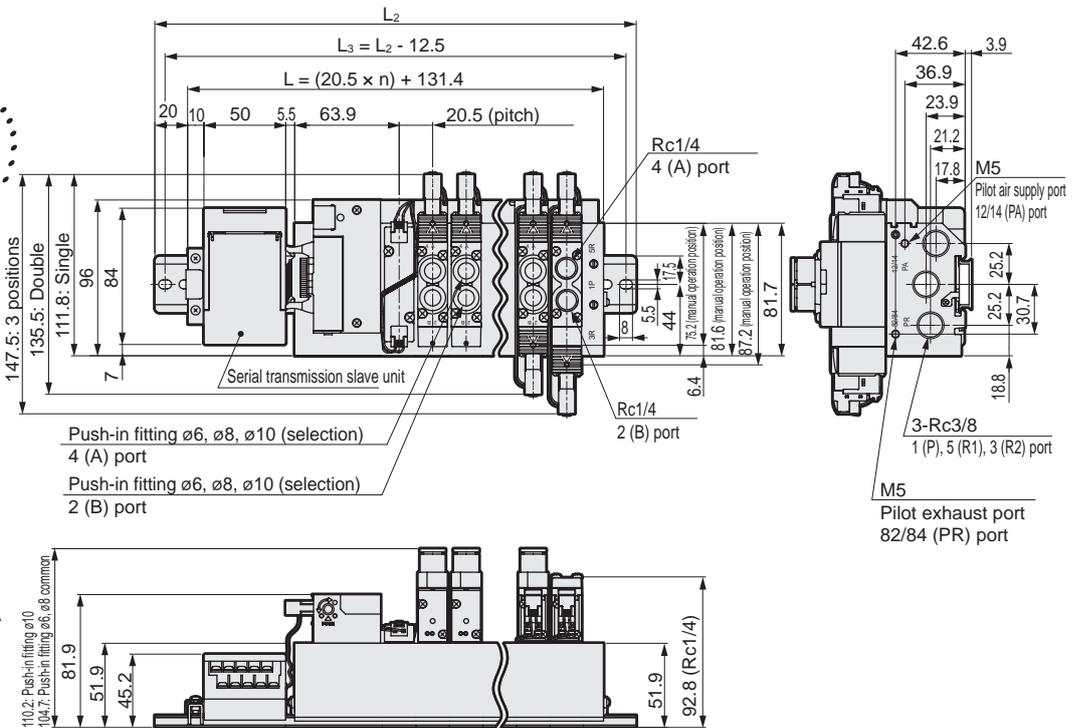
Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	171.4	191.9	212.4	232.9	253.4	273.9	294.4	314.9	335.4	355.9	376.4	396.9	417.4	437.9	458.4
L <sub>2</sub>	212.5	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0	437.5	462.5	487.5	500.0
L <sub>3</sub>	200.0	225.0	250.0	262.5	287.5	312.5	325.0	350.0	375.0	387.5	412.5	425.0	450.0	475.0	487.5

### M4GA3-P7\*

- Serial transmission (T6G1)
- DIN rail mounting (D); external pilot (K)



View from arrow A



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	172.4	192.9	213.4	233.9	254.4	274.9	295.4	315.9	336.4	356.9	377.4	397.9	418.4	438.9	459.4
L <sub>2</sub>	212.5	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0	437.5	462.5	487.5	500.0
L <sub>3</sub>	200.0	225.0	250.0	262.5	287.5	312.5	325.0	350.0	375.0	387.5	412.5	425.0	450.0	475.0	487.5

# M4GA3-T8\* Series

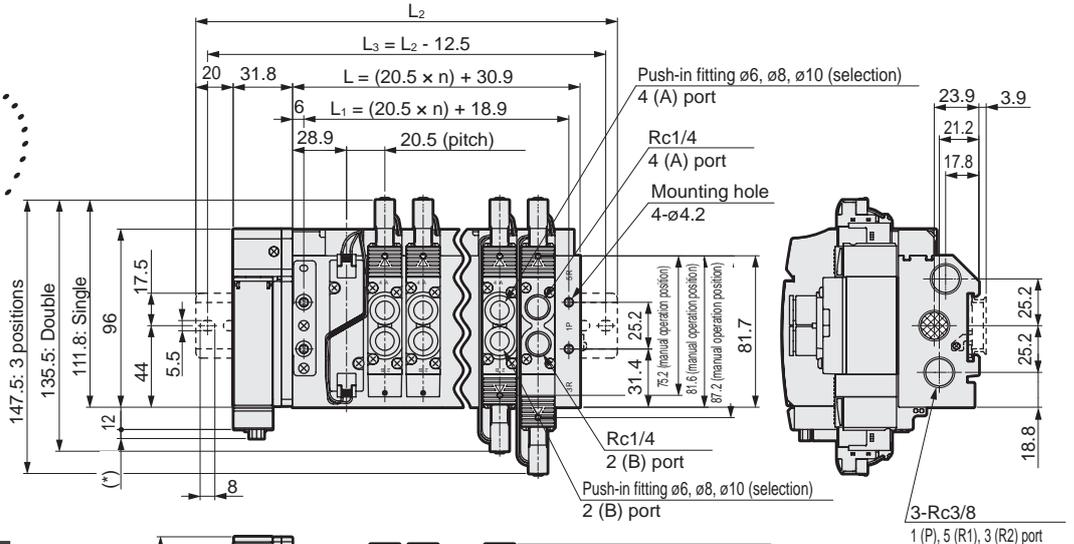
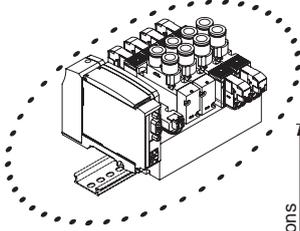
Reduced wiring manifold; direct piping; serial transmission

## Dimensions

### M4GA3-P7\*

- Serial transmission (T8□)
- DIN rail mounting (D)

\* Refer to page 754 for details on the mounting holes.

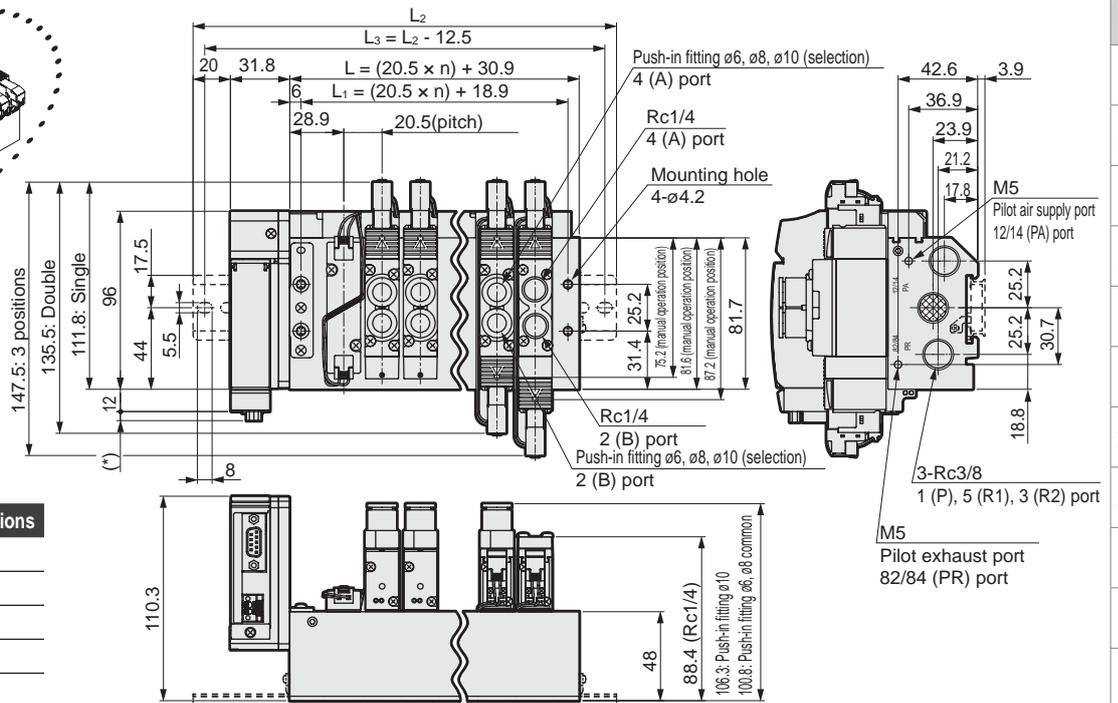
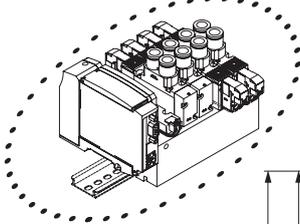


Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L <sub>1</sub>	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L <sub>2</sub>	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

### M4GA3-P7\*

- Serial transmission (T8□)
- DIN rail mounting (D); external pilot (K)



Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L <sub>1</sub>	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L <sub>2</sub>	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R. (module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

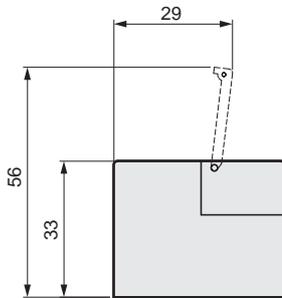
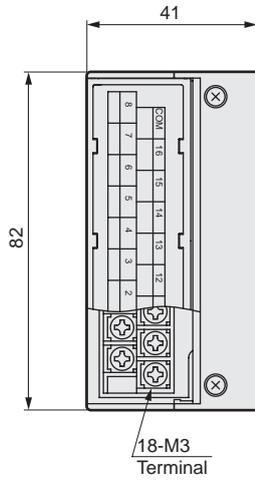
# M4GA-T\* Series

Reduced wiring manifold; body piping

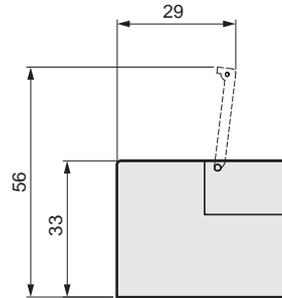
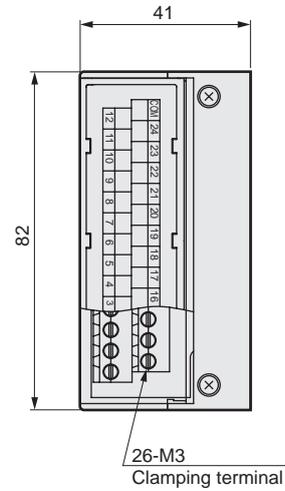
## Electric block part: dimensions

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder switch
MN3E
MN4E
4GA/B
<b>M4GA/B</b>
MN4GA/B
F.R (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

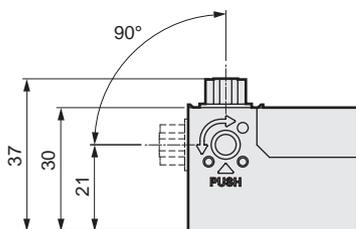
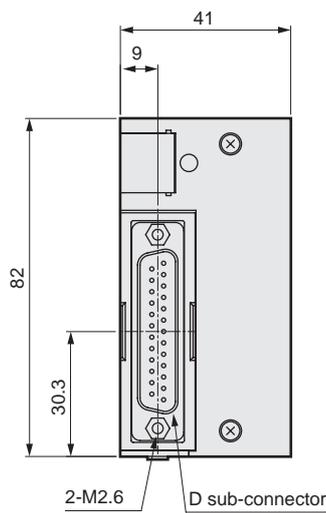
● Common terminal block (M3 thread) T10



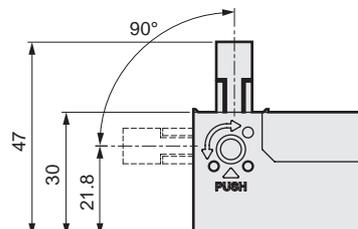
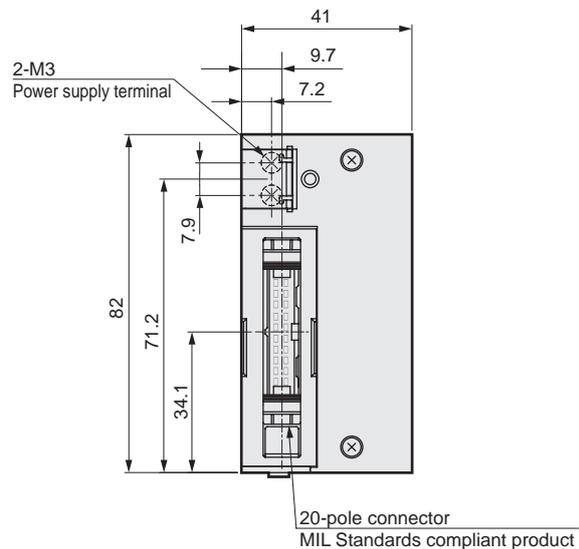
● Common terminal block (clamping) T11



● D sub-connector T30

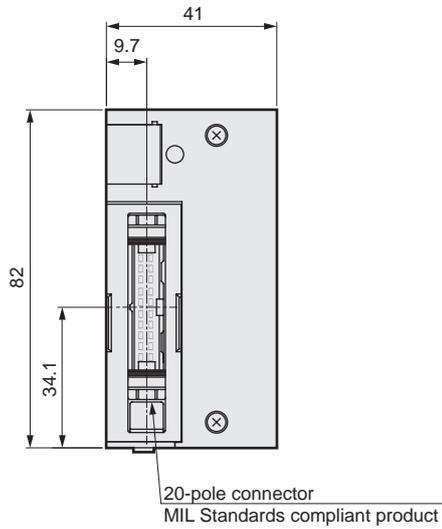


● 20 pin flat cable connector (with power supply terminal) T50

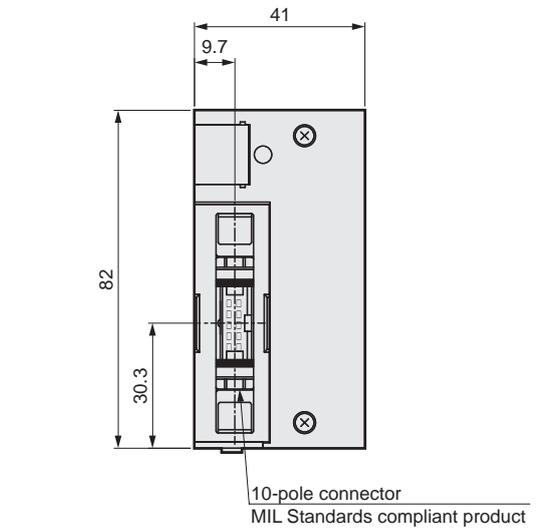


## Electric block part: dimensions

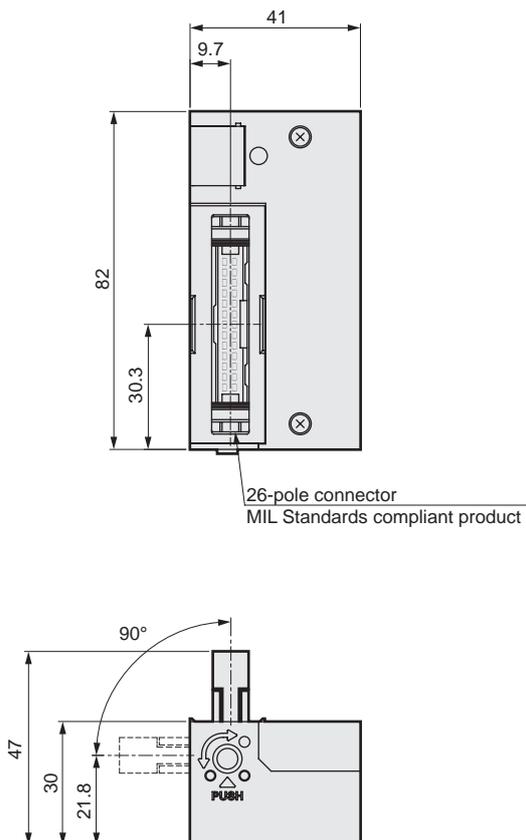
- 20 pin flat cable connector (without power supply terminal)  
T51



- 10 pin flat cable connector (without power supply terminal)  
T52



- 26 pin flat cable connector (without power supply terminal)  
T53



SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
<b>M4GA/B</b>
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

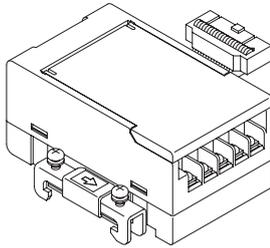
# M4GA3-T6G1\T8\* Series

Reduced wiring manifold; body piping; serial transmission

- Discrete serial transmission slave unit (connector type)

4GR - OPP3 - **1G**

**A** Wiring method

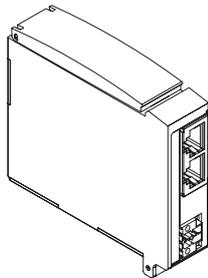


Code	Content			
<b>A Wiring method</b>				
<b>1G</b>	T6G1	CC-Link	NPN	16 points

- Discrete serial transmission slave unit (thin slot type)

4GR - OPP7 - **2G**

**A** Wiring method



Code	Content			
<b>A Wiring method</b>				
<b>1G</b>	T8G1	CC-Link	NPN	16 points
<b>2G</b>	T8G2			32 points
<b>1G-P</b>	T8GP1	CC-Link	PNP	16 points
<b>2G-P</b>	T8GP2			32 points
<b>1P</b>	T8P1	PROFIBUS-DP	NPN	16 points
<b>2P</b>	T8P2			32 points
<b>1P-P</b>	T8PP1	PROFIBUS-DP	PNP	16 points
<b>2P-P</b>	T8PP2			32 points
<b>1EC</b>	T8EC1	EtherCAT	NPN	16 points
<b>2EC</b>	T8EC2			32 points
<b>1EC-P</b>	T8ECP1	EtherCAT	PNP	16 points
<b>2EC-P</b>	T8ECP2			32 points
<b>1EN</b>	T8EN1	EtherNet/IP	NPN	16 points
<b>2EN</b>	T8EN2			32 points
<b>1EN-P</b>	T8ENP1	EtherNet/IP	PNP	16 points
<b>2EN-P</b>	T8ENP2			32 points
<b>1D</b>	T8D1	DeviceNet	NPN	16 points
<b>2D</b>	T8D2			32 points
<b>1D-P</b>	T8DP1	DeviceNet	PNP	16 points
<b>2D-P</b>	T8DP2			32 points
<b>1EB</b>	T8EB1	CC-Link IEF Basic	NPN	16 points
<b>2EB</b>	T8EB2			32 points
<b>1EB-P</b>	T8EBP1	CC-Link IEF Basic	PNP	16 points
<b>2EB-P</b>	T8EBP2			32 points
<b>1EF</b>	T8EF1	CC-Link IE Field	NPN	16 points
<b>2EF</b>	T8EF2			32 points
<b>1EF-P</b>	T8EFP1	CC-Link IE Field	PNP	16 points
<b>2EF-P</b>	T8EFP2			32 points
<b>1EP</b>	T8EP1	PROFINET	NPN	16 points
<b>2EP</b>	T8EP2			32 points
<b>1EP-P</b>	T8EPP1	PROFINET	PNP	16 points
<b>2EP-P</b>	T8EPP2			32 points
<b>1KC</b>	T8KC1	IO-Link	NPN	16 points
<b>2KC</b>	T8KC2			32 points
<b>1KC-P</b>	T8KCP1	IO-Link	PNP	16 points
<b>2KC-P</b>	T8KCP2			32 points

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# MEMO

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SCPD3

SCM

MDC2

SMG

SSD2

STM

STG

LCR

LCG

LCX

LCM

STR2

MRL2

GRC

Cylinder  
switch

**MN3E**  
**MN4E**

**4GA/B**

**M4GA/B**

**MN4GA/B**

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

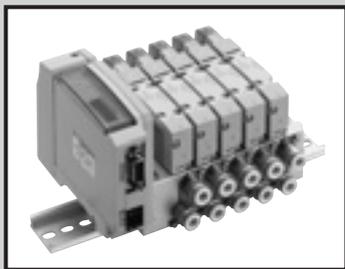
Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending



Reduced wiring manifold  
Base piping  
Direct mount DIN rail mount

# M3GB1/2-T\* (D) Series

# M4GB1/2/3-T\* (D) Series

● Applicable cylinder bore size:  $\varnothing 20$  to  $\varnothing 100$



SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R (module unit)

Clean F.R

Precision R

Press gauge  
Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/tube

Clean air unit

Pressure sensor

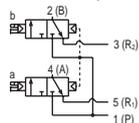
Flow rate sensor

Valve for air blow

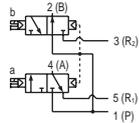
Ending

## JIS symbol

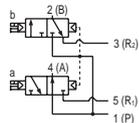
- Dual 3-port valve integrated  
(A side valve: NC, B side valve: NC)



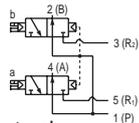
(A side valve: NC, B side valve: NO)



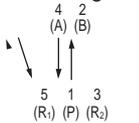
(A side valve: NO, B side valve: NC)



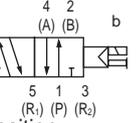
(A side valve: NO, B side valve: NO)



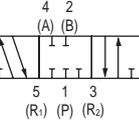
- 5-port valve  
2-position single



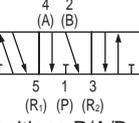
2-position double



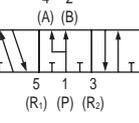
3-position  
All ports closed



3-position A/B/R connection



3 positions P/A/B connection



## Structure and material restriction

	Structure	Material restriction			Model No.
P7 Series	Dust generation preventing				— P70
	Dust generation preventing	Copper-based materials prohibited	Silicon-based materials prohibited	Halogen-based materials prohibited (fluorine, chlorine, bromine)	— P74 Custom order product

## Manifold common specifications

Descriptions		
Manifold	Reduced wiring integrated base	
Mounting method	Direct mount DIN rail mount	
Supply and exhaust method	Common supply/common exhaust (With internal exhaust check valve)	
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (Pilot exhaust check valve integrated)
	External pilot	Main valve/pilot valve individual exhaust
Piping direction	Lateral base	
Valve and operation	Pilot operated soft spool valve	
Working fluid	Compressed air	
Max. working pressure MPa	0.7	
Min. working pressure MPa	0.2 (*3)	
Proof pressure MPa	1.05	
Ambient temperature °C	-5 to 55 (no freezing)	
Fluid temperature °C	5 to 55	
Manual operating device	Common for non-locking/locking (standard)	
Lubrication (*1)	Not required	
Degree of protection (*2)	Dust proof	
Vibration resistance m/s <sup>2</sup>	50 or less	
Shock resistance m/s <sup>2</sup>	300 or less	
Atmosphere	Containing corrosive gas is not permissible	

## Electrical specifications

Descriptions		T1□, T30□, T5□			T6G1, T8□	
		DC24	DC12	DC24	DC24	
Rated voltage V						
Voltage fluctuation range (*4)		±10%		+10%, -5%		
Holding current A	Standard	0.017	0.034	0.017		
	Low exoergic/energy-saving circuit built-in	0.005	0.010	0.005		
Power consumption W	Standard	0.4				
	Low exoergic/energy-saving circuit built-in	0.1				
Thermal class		B				
Surge suppressor (*5)		Zener diode				
Indicator		LED				

- \*1: Use the turbine oil Class 1 ISO VG32 for lubrication. Excessive or intermittent lubrication results in unstable operation.
- \*2: Avoid water drops or oil, etc. during use.
- \*3: The working pressure range is 0 to 0.7 MPa when the external pilot (option Code: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.
- \*4: As for T6G1 and T8□ (serial transmission), because a voltage drop may occur due to the internal circuit design, be careful to check for the voltage fluctuation range.
- \*5: When selecting the type of low exoergic/energy-saving circuit built-in or surgeless, a diode is used.

## Common specifications

Descriptions		M3GB1/M4GB1	M3GB2/M4GB2	M3GB3/M4GB3
Port size	A/B port	Barbed fitting $\varnothing 1.8$ Push-in fitting $\varnothing 1.8, \varnothing 4, \varnothing 6, \varnothing 8$ (*6) M5	Push-in fitting $\varnothing 4, \varnothing 6, \varnothing 8, \varnothing 10$ (*6) Rc1/8	Push-in fitting $\varnothing 6, \varnothing 8, \varnothing 10$ Rc1/4
	P/R1/R2 port	Rc1/8	Rc1/4	Rc3/8

\*6: This is a custom order product.

T1 □, T30 □, T5 □

Descriptions		M3GB1/M4GB1		M3GB2/M4GB2		M3GB3/M4GB3	
		Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount
Max. station number	Standard (Internal pilot)	20 stations	16 stations	20 stations	16 stations	16 stations	
	External pilot	12 stations					
Manifold base Weight calculation formula (n: station No.) g	Standard	43n + 335	45n + 348	80n + 398	82n + 431	124n + 548	126n + 582
	External pilot	44n + 330	46n + 344	88n + 433	90n + 467	129n + 577	131n + 606

T6G1

Descriptions		M3GB1/M4GB1	M3GB2/M4GB2	M3GB3/M4GB3
		DIN rail mount	DIN rail mount	DIN rail mount
Max. station number	Standard (Internal pilot)	16 stations	16 stations	16 stations
	External pilot	12 stations		
Manifold base Weight calculation formula (n: station No.) g	Standard	45n + 495	82n + 578	126n + 729
	External pilot	46n + 491	90n + 615	131n + 753

T8 □

Descriptions		M3GB1/M4GB1		M3GB2/M4GB2		M3GB3/M4GB3	
		Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount
Max. station number	Standard (Internal pilot)	20 stations	16 stations	20 stations	16 stations	16 stations	
	External pilot	12 stations					
Manifold base Weight calculation formula (n: station No.) g	Standard	46n + 305	49n + 332	83n + 318	86n + 350	128n + 384	132n + 416
	External pilot	48n + 312	51n + 339	91n + 336	94n + 368	146n + 417	150n + 449

Manifold base weight stands for a value for the screw connection specifications when a DIN rail, electrical component block, or slave unit is equipped.

The max. station number of the manifold is limited by the max. number of solenoid for each of the following wiring specifications.

# M<sup>3</sup>GB1/2/3-T\* (D) Series

Reduced wiring manifold; base piping

## Flow characteristics

Model No.	Solenoid position	P → A/B		A/B → R1/R2		
		C [dm <sup>3</sup> /(s·bar)]	b	C [dm <sup>3</sup> /(s·bar)]	b	
M3GB1 M4GB1	Dual 3-port valve integrated	0.86	0.35	1.1 (0.67)	0.22 (0.23)	
	2-position	1.1	0.22	1.2 (0.70)	0.20 (0.10)	
	3-position	All ports closed	0.98	0.22	1.1 —	0.24 —
		ABR connection	0.97	0.35	1.3 (0.68)	0.22 (0.24)
	PAB connection	1.1	0.38	1.1 —	0.21 —	
M3GB2 M4GB2	Dual 3-port valve integrated	1.7	0.44	2.1 (1.6)	0.32 (0.30)	
	2-position	2.4	0.34	2.7 (1.7)	0.24 (0.31)	
	3-position	All ports closed	2.2	0.34	2.4 —	0.29 —
		ABR connection	2.2	0.34	2.8 (1.8)	0.24 (0.27)
PAB connection		2.4	0.29	2.4 —	0.29 —	
M4GB3	2-position	3.5	0.34	3.8 (2.6)	0.11 (0.27)	
	3-position	All ports closed	3.1	0.33	3.3 —	0.22 —
		ABR connection	3.0	0.30	3.8 (2.7)	0.11 (0.22)
		PAB connection	3.6	0.36	3.3 —	0.28 —

Note 1: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ . Note 2: Values in ( ) apply when the exhaust check valve attached.

## Wiring specifications

Descriptions	T10 □ Common terminal block	T11 □ Common terminal block	T30 □ D sub-connector	T50 □ Flat cable 20 pin	T51 □ Flat cable 20 pin	T52 □ Flat cable 10 pin	T53 □ Flat cable 26 pin																																												
Connector and terminal block specifications	M3 thread tightening 18 terminals	clamping 26 terminals	D sub-connector 25 pin	MIL-C-83503 standards conformed Pressure welding socket 20 pin	MIL-C-83503 standards conformed Pressure welding socket 20 pin	MIL-C-83503 standards conformed Pressure welding socket 10 pin	MIL-C-83503 standards conformed Pressure welding socket 26 pin																																												
Max. number of solenoid	16 points	24 points	24 points	16 points	18 points	8 points	24 points																																												
Manifold internal wiring	Details on pages 714 to 721																																																		
Electric block position	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Left side: T □ a solenoid side</p> <p>b solenoid side</p> <p>Electrical block 1st station 2nd station 3rd station ... 6th station</p> </div> <div style="text-align: center;"> <p>Right side: T □ R a solenoid side</p> <p>b solenoid side</p> <p>1st station 2nd station 3rd station ... 6th station Electrical block</p> </div> </div>																																																		
Arrangement	<p>(Example) T50 □</p> <p>Manifold specifications</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>1a</td><td>2a</td><td>3a</td><td>4a</td></tr> <tr><td>S</td><td>D</td><td>S</td><td>D</td></tr> <tr><td>2b</td><td>4b</td><td></td><td></td></tr> </table> <p>1st station 3rd station 2nd station 4th station</p> <p>Standard wiring (sequential): Blank</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>Connector pin No.</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>Valve solenoid No.</td><td>1a</td><td>2a</td><td>2b</td><td>3a</td><td>4a</td><td>4b</td></tr> </table> <p>Double wiring: W</p> <table border="1" style="display: inline-table;"> <tr><td>Connector pin No.</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Valve solenoid No.</td><td>1a</td><td>Void</td><td>2a</td><td>2b</td><td>3a</td><td>Void</td><td>4a</td><td>4b</td></tr> </table>							1a	2a	3a	4a	S	D	S	D	2b	4b			Connector pin No.	1	2	3	4	5	6	Valve solenoid No.	1a	2a	2b	3a	4a	4b	Connector pin No.	1	2	3	4	5	6	7	8	Valve solenoid No.	1a	Void	2a	2b	3a	Void	4a	4b
1a	2a	3a	4a																																																
S	D	S	D																																																
2b	4b																																																		
Connector pin No.	1	2	3	4	5	6																																													
Valve solenoid No.	1a	2a	2b	3a	4a	4b																																													
Connector pin No.	1	2	3	4	5	6	7	8																																											
Valve solenoid No.	1a	Void	2a	2b	3a	Void	4a	4b																																											

## Serial transmission slave unit specifications

Download the communication configuration file from the CKD website (<https://www.ckd.co.jp/en/>).

Item	T6G1	
Network name	CC-Link ver 1.10	
Power supply voltage	Unit side	24 VDC ±10%
	Valve side	24 VDC +10% -5%
Current consumption	Unit side	100 mA or less (when all output points are ON)
	Valve side	15 mA or less (when all output points are OFF)
Output points	16 points	
Occupied number	1 station	
Operation display	LED (power and communication status)	

Item	T6G1																	
	T8G1	T8GP1	T8P1	T8PP1	T8EC1	T8ECP1	T8EN1	T8ENP1	T8D1	T8DP1	T8EB1	T8EBP1	T8EF1	T8EFP1	T8EP1	T8EPP1	T8KC1	T8KCP1
Communication system name	CC-Link ver1.10	PROFIBUS-DP (V0)	EtherCAT	EtherNet/IP	DeviceNet	CC-Link IEF Basic	CC-Link IE Field	PROFINET	IO-LINK									
Power supply voltage	Unit side	24 VDC ±10% (*Only T8D is 11 to 25 VDC)																
	Valve side	24 VDC + 10%, -5%																
Current consumption	Unit side	60 mA or less (when all output points are ON)	60 mA or less (when all output points are ON)	110 mA or less (when all output points are ON)	120 mA or less (when all output points are ON)	70 mA or less (when all output points are ON)	130 mA or less (when all output points are ON)	140 mA or less (when all output points are ON)	130 mA or less (when all output points are ON)	50 mA or less (when all output points are ON)								
	Valve side	T8□1: 15 mA or less T8□2: 20 mA or less (when all output points are ON) Load current is not included								15 mA or less (when all output points are ON) Load current is not included								
Output points	T8□1: 16 points, T8□2: 32 points																	
Occupied number	1 station																	
Operation display	LED (power and communication status)																	
Output style	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output

# M4GB1/2/3-T\* (D) Series

Reduced wiring manifold; base piping

How to order

Manifold model No.

**M** **4GB1** **1** **0R** - **C6** - **T30** **W** **H** **D** - **3** - **P70**

3-port manifold model No.

**M** **3GB1** **66** **0R** - **C6** - **T30** **W** **H** **D** - **3** - **P70**

● Discrete valve for mounting base

**4GB1** **1** **9R** - **00** - **A2N** **H** - **3** - **P70**

● 3-port discrete valve for mounting base

**3GB1** **66** **9R** - **00** - **A2N** **H** - **3** - **P70**

**B** Solenoid position

**J** Clean room specifications

**A** Model No.

**C** Port size  
\*3  
\*4

**D** Reduced wiring

**E** Terminal and connector pin wiring

**F** Option

**G** Mount

**H** Station No.

**I** Voltage

● Refer to page 717 for the model No. of cables with D-sub-connector.

● Refer to page 713 for the model No. of cables for flat cable connector.

## ⚠ Precautions for model No. selection

\*1: Select M4GA\*80R when mixing with the 3, 5-port valves.  
Select M3GB\*80R when mixing with the masking plate.

\*2: Combination with the external pilot (K) is not supported. Dimensions are the same as the respective 2-position double solenoid.

\*3: CL\* radial push-in fitting (facing up) will only support single solenoid manifolds. The port A is a long elbow and the port B is short elbow.

\*4: For radial push-in fitting, A/B port sizes do not differ.

\*5: C8 for 4G1, C10 for 4G2 are custom order products. They do not support push-in fitting mix.

\*6: Made-to-order product.

A Model No.				
3GB1	3GB2	4GB1	4GB2	4GB3

B Solenoid position				
1	2-position single		●	●
2	2-position double		●	●
3	3-position all ports closed		●	●
4	3-position ABR connection		●	●
5	3-position PAB connection		●	●
66	Dual 3-port valve integrated	A side valve: Normally closed	●	●
67		B side valve: Normally closed	●	●
76	*1, *2	A side valve: Normally open	●	●
		B side valve: Normally closed	●	●
77		A side valve: Normally open	●	●
		B side valve: Normally open	●	●
8	Mixed manifold (In case of multiple solenoid positions)	●	●	●

C Port size				
Port	4 (A)/2 (B) port	P/R1/R2 port (2)=Rc1/8 (3)=Rc1/4 (4)=Rc3/8		
CF	ø1.8 barbed fitting (applicable tube UP-9102-**)	(2)	(2)	
C18	ø1.8 push-in fitting (applicable tube UP-9402-**)	(2)	(2)	
C4	ø4 push-in fitting	(2)	(3)	(3)
C6	ø6 push-in fitting	(2)	(3)	(3)
C8	ø8 push-in fitting *5	(2)	(3)	(3)
C10	ø10 push-in fitting *5		(3)	(3)
CL18	ø1.8 radial facing-up push-in fitting (applicable tube UP-9402-**)		(2)	
CL4	ø4 radial facing-up push-in fitting		(2)	
CL6	ø6 radial facing-up push-in fitting		(2)	(3)
CL8	ø8 radial facing-up push-in fitting			(3)
CL10	ø10 radial facing-up push-in fitting			(4)
CD18	ø1.8 radial facing-down push-in fitting (applicable tube UP-9402-**)	(2)	(2)	
CD4	ø4 radial facing-down push-in fitting	(2)	(2)	
CD6	ø6 radial facing-down push-in fitting	(2)	(3)	(3)
CD8	ø8 radial facing-down push-in fitting		(3)	(3)
CD10	ø10 radial facing-down push-in fitting			(4)
CX	Push-in fitting mix	(2)	(3)	(2)
M5	M5	(2)	(2)	
06	Rc1/8		(3)	(3)
08	Rc1/4			(4)
Port	4 (A)/2 (B) port	P/R1/R2 port (5)=1/8NPT (6)=1/4NPT (7)=3/8NPT		
C3N	ø1/8" push-in fitting	(5)	(5)	
C4N	ø5/32" push-in fitting	(5)	(5)	
C6N	ø1/4" push-in fitting		(6)	(6)
C8N	ø5/16" push-in fitting		(6)	(6)
C10N	ø3/8" push-in fitting			(7)
CL3N	Radial ø1/8" push-in fitting upward (*6)		(5)	
CL4N	Radial ø5/32" push-in fitting upward (*6)		(5)	
CL6N	Radial ø1/4" push-in fitting upward (*6)			(6)
CL8N	Radial ø5/16" push-in fitting upward (*6)			(6)
CXN	Push-in fitting mix	(5)	(6)	(5)
M5N	M5	(5)	(5)	
06N	NPT1/8		(6)	(6)
08N	NPT1/4	(*6)		(7)
Port	4 (A)/2 (B) port	P/R1/R2 port (8)=G1/8 (9)=G1/4 (10)=G3/8		
C4G	ø4 push-in fitting	(8)	(9)	(8)
C6G	ø6 push-in fitting	(8)	(9)	(8)
C8G	ø8 push-in fitting		(9)	(9)
C10G	ø10 push-in fitting			(10)
CL4G	ø4 radial push-in fitting upward (*6)		(8)	
CL6G	ø6 radial push-in fitting upward (*6)		(8)	(9)
CL8G	ø8 radial push-in fitting upward (*6)			(9)
CXG	Push-in fitting mix	(8)	(9)	(8)
M5G	M5	(8)	(8)	
06G	G1/8		(9)	(9)
08G	G1/4			(10)
00	Discrete valve for integrated base	●	●	●

**D Reduced wiring**  
Refer to the next page for electrical connections.

■ is not available.

# M4GB1/2/3-T\* (D) Series

Reduced wiring manifold; base piping

			A Model No.				
			3GB1	3GB2	4GB1	4GB2	4GB3
<b>D Reduced wiring (lamp and surge suppressor provided as standard) 12/24 VDC</b>							
T10	Common terminal block	Left side specifications	●	●	●	●	●
T10R	(M3 thread)	Right side specifications	●	●	●	●	●
T11	Common terminal block (clamping)	Left side specifications	●	●	●	●	●
T11R		Right side specifications	●	●	●	●	●
T30	D sub-connector	Left side specifications	●	●	●	●	●
T30R		Right side specifications	●	●	●	●	●
T50	20 pin flat cable connector (with power supply terminal)	Left side specifications	●	●	●	●	●
T50R		Right side specifications	●	●	●	●	●
T51	20 pin flat cable connector (without power supply terminal)	Left side specifications	●	●	●	●	●
T51R		Right side specifications	●	●	●	●	●
T52	10 pin flat cable connector (without power supply terminal)	Left side specifications	●	●	●	●	●
T52R		Right side specifications	●	●	●	●	●
T53	26 pin flat cable connector (without power supply terminal)	Left side specifications	●	●	●	●	●
T53R		Right side specifications	●	●	●	●	●
<b>D Serial transmission (lamp and surge suppressor provided as standard) 24 VDC</b>							
T6G1	CC-Link	NPN 16 points	●	●	●	●	●
T8G1	CC-Link	NPN 16 points	●	●	●	●	●
T8G2		NPN 32 points	●	●	●	●	●
T8GP1		PNP 16 points	●	●	●	●	●
T8GP2		PNP 32 points	●	●	●	●	●
T8P1	PROFIBUS-DP	NPN 16 points	●	●	●	●	●
T8P2		NPN 32 points	●	●	●	●	●
T8PP1		PNP 16 points	●	●	●	●	●
T8PP2		PNP 32 points	●	●	●	●	●
T8EC1	EtherCAT	NPN 16 points	●	●	●	●	●
T8EC2		NPN 32 points	●	●	●	●	●
T8ECP1		PNP 16 points	●	●	●	●	●
T8ECP2		PNP 32 points	●	●	●	●	●
T8EN1	EtherNet/IP	NPN 16 points	●	●	●	●	●
T8EN2		NPN 32 points	●	●	●	●	●
T8ENP1		PNP 16 points	●	●	●	●	●
T8ENP2		PNP 32 points	●	●	●	●	●
T8D1	DeviceNet	NPN 16 points	●	●	●	●	●
T8D2		NPN 32 points	●	●	●	●	●
T8DP1		PNP 16 points	●	●	●	●	●
T8DP2		PNP 32 points	●	●	●	●	●
T8EB1	CC-Link IEF Basic	NPN 16 points	●	●	●	●	●
T8EB2		NPN 32 points	●	●	●	●	●
T8EBP1		PNP 16 points	●	●	●	●	●
T8EBP2	PNP 32 points	●	●	●	●	●	
T8EF1	CC-Link IE Field	NPN 16 points	●	●	●	●	●
T8EF2		NPN 32 points	●	●	●	●	●
T8EFP1		PNP 16 points	●	●	●	●	●
T8EFP2		PNP 32 points	●	●	●	●	●
T8EP1	PROFINET	NPN 16 points	●	●	●	●	●
T8EP2		NPN 32 points	●	●	●	●	●
T8EPP1		PNP 16 points	●	●	●	●	●
T8EPP2		PNP 32 points	●	●	●	●	●
T8KC1	IO-Link	NPN 16 points	●	●	●	●	●
T8KC2		NPN 32 points	●	●	●	●	●
T8KCP1		PNP 16 points	●	●	●	●	●
T8KCP2	PNP 32 points	●	●	●	●	●	
A2N	Without lead wire (no socket)	with surge suppressor and indicator lamp	●	●	●	●	●
<b>E Terminal and connector pin wiring</b>							
Blank	Standard wiring	(*7)	●	●	●	●	●
W	Double wiring	(*7)	●	●	●	●	●
W1	Double wiring (with single spare wiring)	(*7)(*8)	●	●	●	●	●
<b>F Option</b>							
Blank	Manual override of non-locking/locking common		●	●	●	●	●
M	Manual override of non-locking		●	●	●	●	●
H	With exhaust check valve	(*9)	●	●	●	●	●
K	External pilot	(*10)	●	●	●	●	●
A	Ozone/coolant proof		●	●	●	●	●
S	Surgeless	(*11)	●	●	●	●	●
E	Low exoergic/energy circuit	(*11)(*12)	●	●	●	●	●
F	Port A/B filter integrated	(*13)	●	●	●	●	●
Z1	Air supply spacer	(*14)	●	●	●	●	●
Z3	Exhaust spacer	(*14)	●	●	●	●	●
<b>G Mount</b>							
Blank	Direct mount		●	●	●	●	●
D	DIN rail mount		●	●	●	●	●
<b>H Station No.</b>							
2	2 stations		●	●	●	●	●
to	to		●	●	●	●	●
20	Refer to page 562 for the max. station number per port size.		●	●	●	●	●
<b>I Voltage</b>							
3	24 VDC		●	●	●	●	●
4	12 VDC		●	●	●	●	●
<b>J Clean room specifications (*14, 15, 16)</b>							
	Structure	Material restriction					
P70	Exhaust treatment	-	●	●	●	●	●
P74	Exhaust treatment	Copper-silicon-halogen-based materials (fluorine, chlorine, bromine) are prohibited.	○	○	○	○	○

Ozone proof specifications

Cutting oil prohibited specifications

This can be set by selecting option "A" of (F) in How to order.

- \*7: Blank ... Wired based on the type of valve used.  
W\* ... Wired for the double solenoid irrespective of valve used.
- \*8: For the single type, spare wiring (A-type socket assembly) is attached on the cap side. For the discrete valve (A2N), a holder for retaining the socket assembly is attached. Refer to page 596 for details.
- \*9: 3-position all ports closed and PAB connection are not provided with the exhaust check valve (H). Refer to page 751 for details on the exhaust check.
- \*10: Contact CKD when using a vacuum with the external pilot (K).
- \*11: Selecting a combination of surgeless "S" and the low exoergic/energy-saving circuit "E" is not allowed.
- \*12: Applicable to surgeless specifications
- \*13: P port is equipped with a filter as standard.
- \*14: Indicate the mounting positions and quantity of the spacers in the manifold specifications. Stacking multiple spacers is not supported. Combination with the masking plate is not supported. Refer to pages 592 to 595 for details.
- \*15: A (ozone compatible) and (●) clean room specifications P74 cannot be combined.
- \*16: Specifications which do not allow copper-based/silicon-based/halogen-based materials apply to the main valve section.
- \*17: P74 Series is a custom order product.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

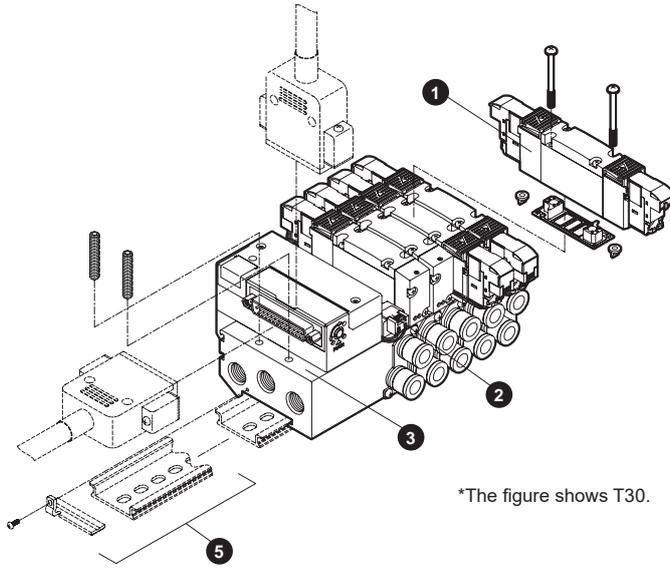
# M4GB1/2/3-T\* (D) Series

Reduced wiring manifold; base piping

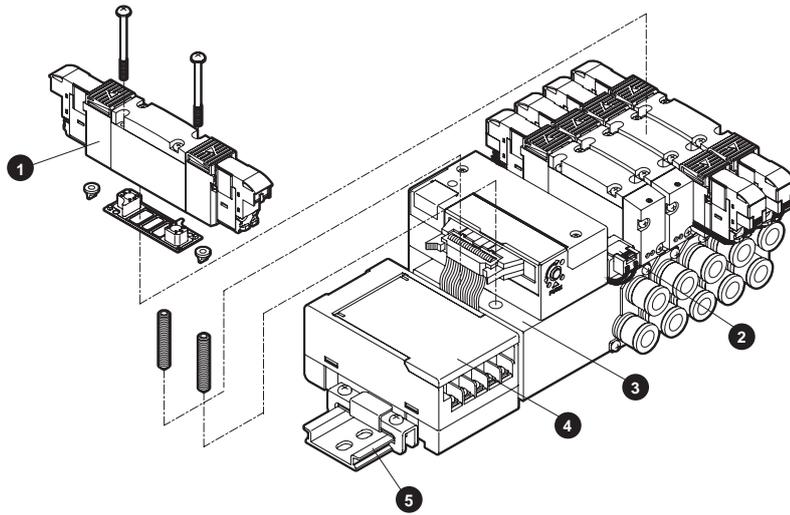
## Manifold components explanation and parts list

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder switch
MN3E MN4E
4GA/B
<b>M4GA/B</b>
MN4GA/B
F.R (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

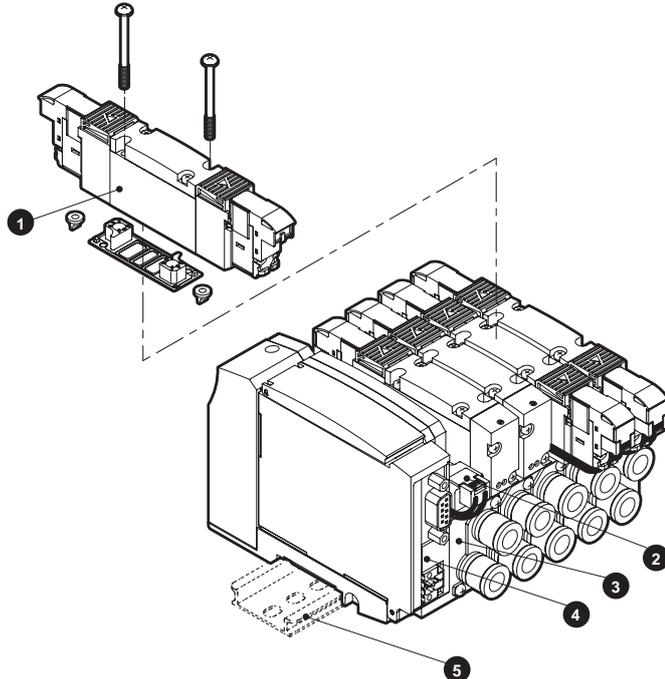
- T10 / T10R
- T11 / T11R
- T30 / T30R
- T50 / T50R
- T51 / T51R
- T52 / T52R
- T53 / T53R



- T6G1



- T8□



When purchasing M4GB2-T8 or M4GB3-T8 Series, its mount (direct, DIN rail) cannot be changed afterwards. For M4GB1-T8 Series, however, it is changeable.

# M4GB1/2/3-T\* (D) Series

Reduced wiring manifold; base piping

## Main components list

No.	Component name	Model No.	Descriptions	Remarks
1	Discrete valve for mounting base	3 4 GB□□9R-00-A2N [Option] - [Voltage] -P70 -P74 Solenoid position Series flow rate size	Discrete valve Gasket Set screw 2 PR check valve 2	Details on page 564
2	Masking plate	3G1/4G1	4G1R-MP-P70	Masking plate Gasket Set screw 2 * 3G3/4G3 has two PR check valves.
3G2/4G2		4G2R-MP-P70		
3G2/4G3		4G3R-MP-P70		
3	Manifold base assembly	M4GB□R - [Port size] - [T56] - [Option] - [Station No.] - P70 Series flow rate size	Manifold base Electrical block	
4	Serial transmission slave unit	4GR-OPP3- [Wiring method]	Discrete serial transmission slave unit (connector type)	Details on page 591
4GR-OPP7- [Wiring method]		Discrete serial transmission slave unit (thin slot type)		
5	DIN rail kit	4GB□R-BAA [Rail length] - [Option] D Series flow rate size		Details on page 599

## Parts list

No.	Parts name	Model No.	No.	Parts name	Model No.
-	Coil assembly	4GR-A2N- □ COIL- [Voltage] - P70 Blank: standard A: Ozone/cutting oil compatible S: Surgeless E: Low exoergic/energy-saving circuit K: External pilot		Cartridge push-in fitting and related parts	4G1 ø1.8 barbed 4G1R-JOINT-CF-P70 ø1.8 straight 4G1R-JOINT-C18-P70 ø4 straight 4G1R-JOINT-C4-P70 ø6 straight 4G1R-JOINT-C6-P70 ø8 straight (*1) 4G1R-JOINT-C8-P70 ø1.8 elbow 4G1R-JOINT-CL18,CLL18-P70 ø4 elbow 4G1R-JOINT-CL4,CLL4-P70 ø6 elbow 4G1R-JOINT-CL6,CLL6-P70 ø1/8" straight 4G1R-JOINT-C3N-P70 ø5/32" straight 4G1R-JOINT-C4N-P70 ø1/8" elbow (*2) 4G1R-JOINT-CL3N,CLL3N-P70 ø5/32" elbow (*2) 4G1R-JOINT-CL4N,CLL4N-P70 Plug cartridge 4G1R-JOINT-CPG-P70
-		A connector Socket assembly Details on page 737	4GR□-SOCKET-ASSY-A □ □ - [Row No.] - P70 Blank: Left side, R: Right side A: aSOL side, B: bSOL side n: Specify the position of the valve to be connected		
				4G3 ø6 straight 4G3R-JOINT-C6-P70 ø8 straight 4G3R-JOINT-C8-P70 ø10 straight 4G3R-JOINT-C10-P70 ø8 elbow 4G3R-JOINT-CL8,CLL8-P70 ø10 elbow 4G3R-JOINT-CL10,CLL10-P70 ø5/16" straight 4G3R-JOINT-C8N-P70 ø3/8" straight 4G3R-JOINT-C10N-P70	

\*1:M4GB1-C8 dedicated parts.

\*2: Made to order.

\*3:4G3 ø10 straight and common products.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

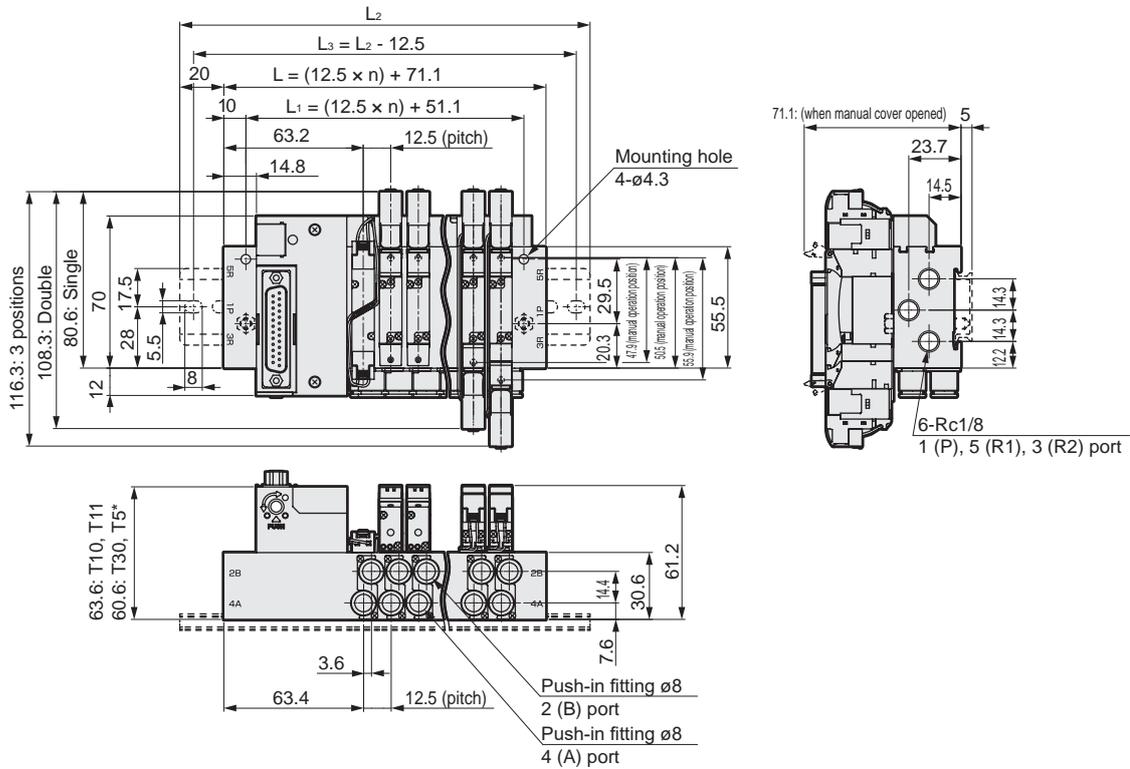


### Dimensions

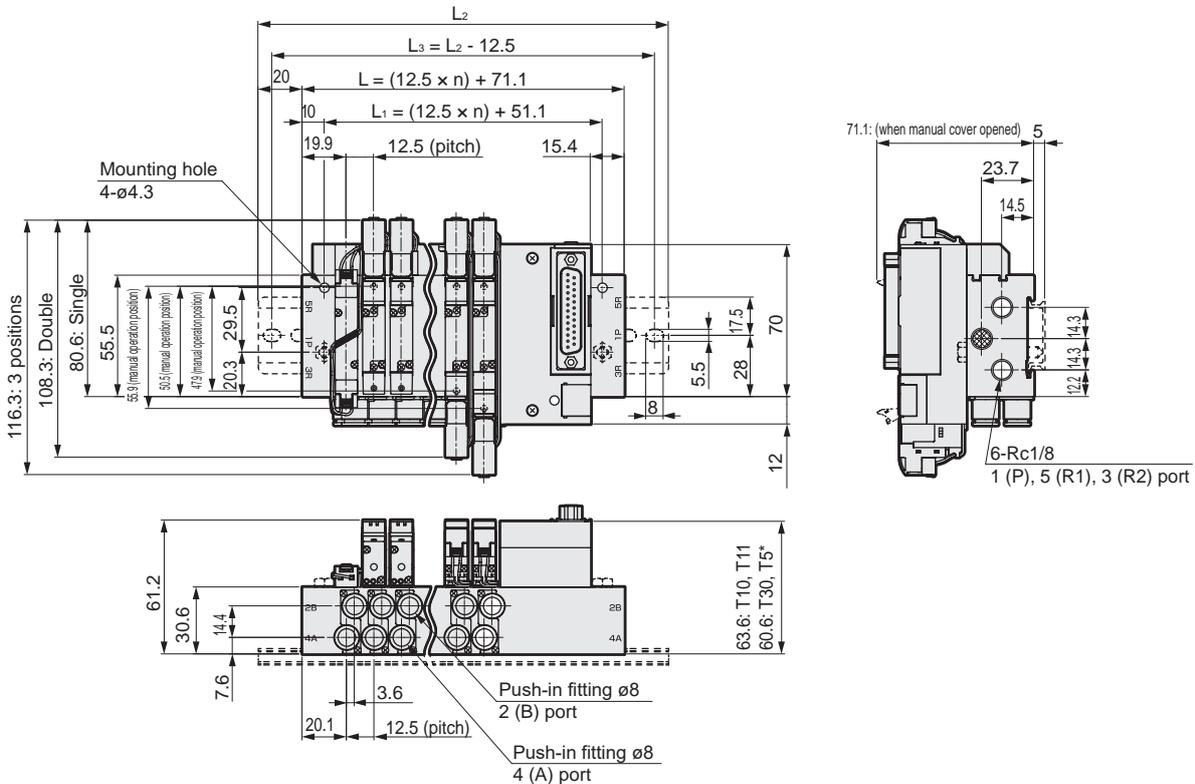
#### M4GB1-C8-P7\*

\*Refer to page 755 for details on mounting holes.

#### ● Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)



#### ● Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	96.1	108.6	121.1	133.6	146.1	158.6	171.1	183.6	196.1	208.6	221.1	233.6	246.1	258.6	271.1	283.6	296.1	308.6	321.1
L1	76.1	88.6	101.1	113.6	126.1	138.6	151.1	163.6	176.1	188.6	201.1	213.6	226.1	238.6	251.1	263.6	276.1	288.6	301.1
L2	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L3	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# M4GB1-T\* Series

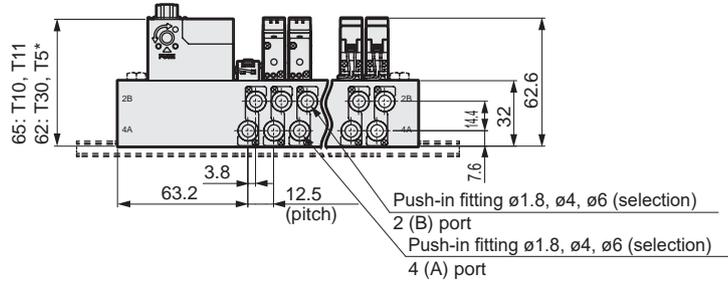
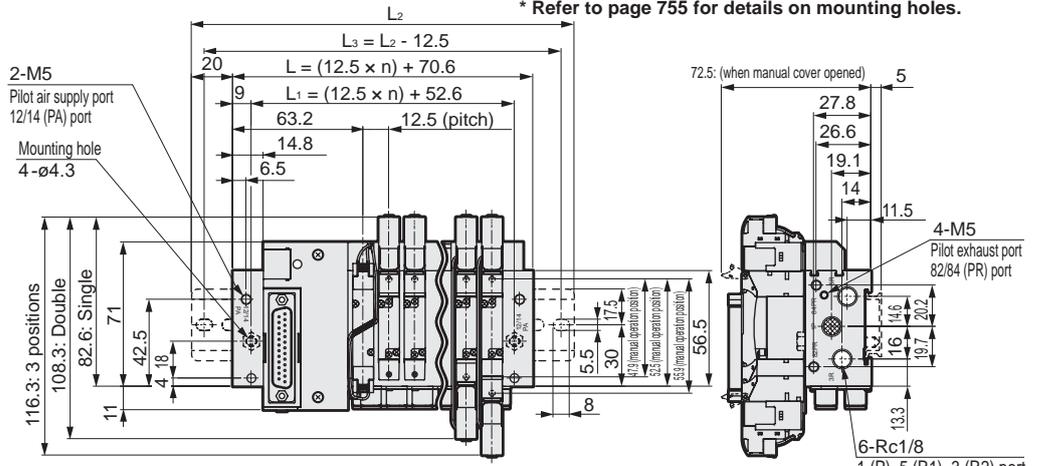
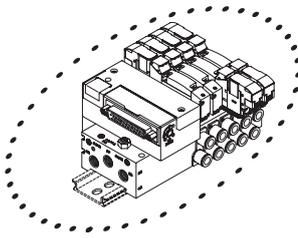
Reduced wiring manifold; base piping

## Dimensions

### M4GB1-P7\*

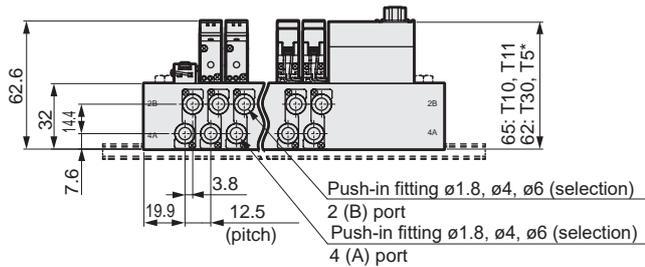
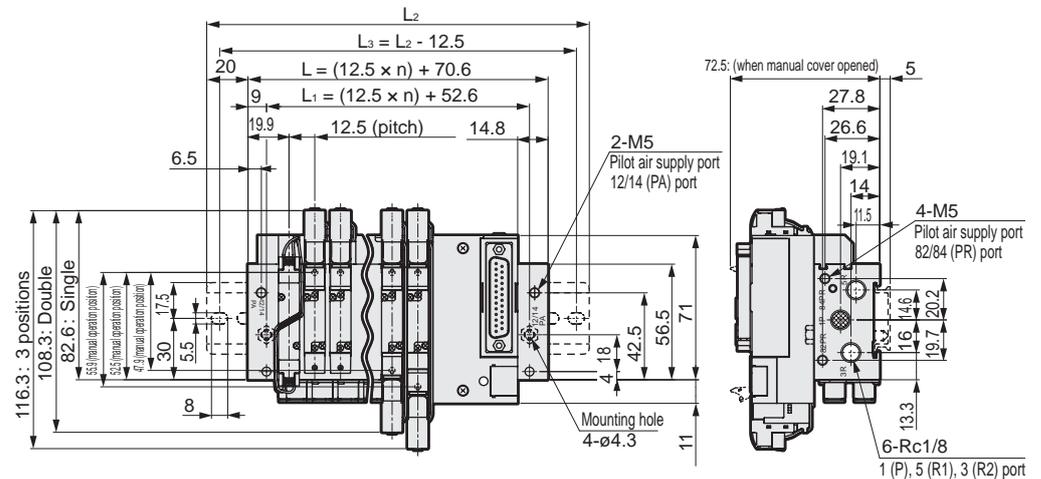
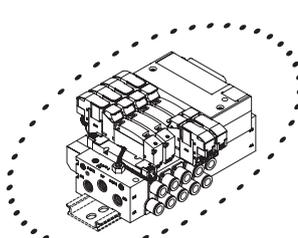
- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)

\* This drawing shows the T30. Refer to page 590 for detailed dimensions of the electric block.  
\* Refer to page 755 for details on mounting holes.



\* Refer to page 576 for details on the push-in fitting elbow (facing up/down).

- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)

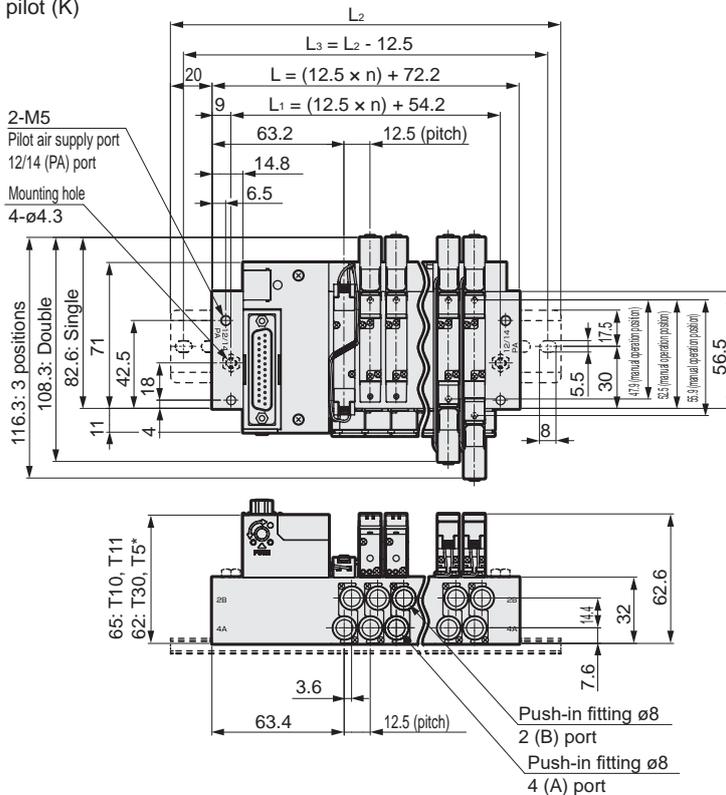


Station No.	2	3	4	5	6	7	8	9	10	11	12
L	95.6	108.1	120.6	133.1	145.6	158.1	170.6	183.1	195.6	208.1	220.6
L1	77.6	90.1	102.6	115.1	127.6	140.1	152.6	165.1	177.6	190.1	202.6
L2	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L3	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

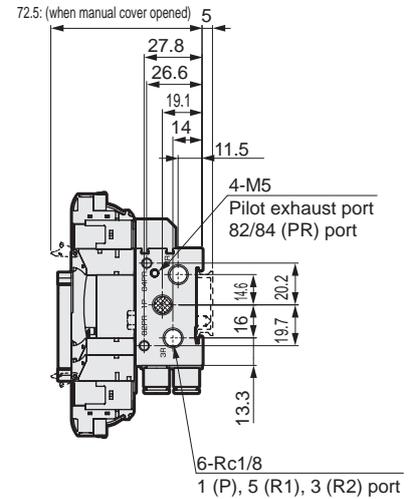
### Dimensions

#### M4GB1-C8-P7\*

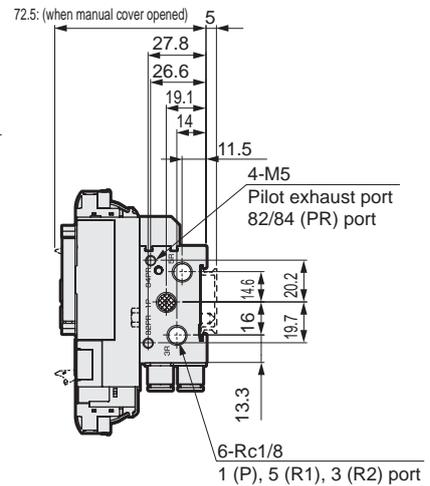
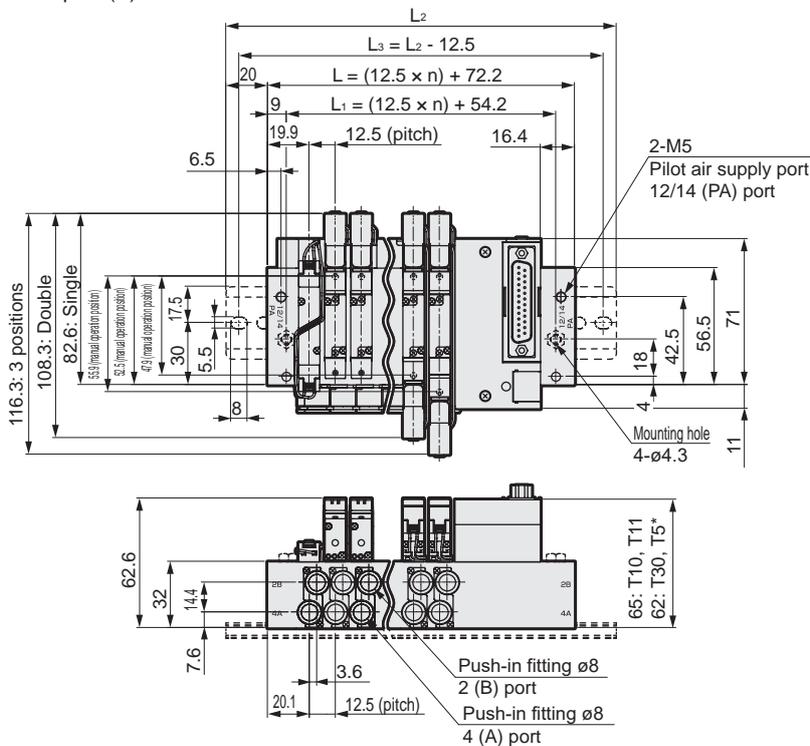
- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)



\*Refer to page 755 for details on mounting holes.



- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



Station No.	2	3	4	5	6	7	8	9	10	11	12
L	97.2	109.7	122.2	134.7	147.2	159.7	172.2	184.7	197.2	209.7	222.2
L1	79.2	91.7	104.2	116.7	129.2	141.7	154.2	166.7	179.2	191.7	204.2
L2	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L3	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E  
MN4E
- 4GA/B
- M4GA/B**
- MN4GA/B
- F.R. (module unit)
- Clean F.R
- Precision R
- Press gauge  
Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

# M4GB1-T6D Series

Reduced wiring manifold; base piping; serial transmission

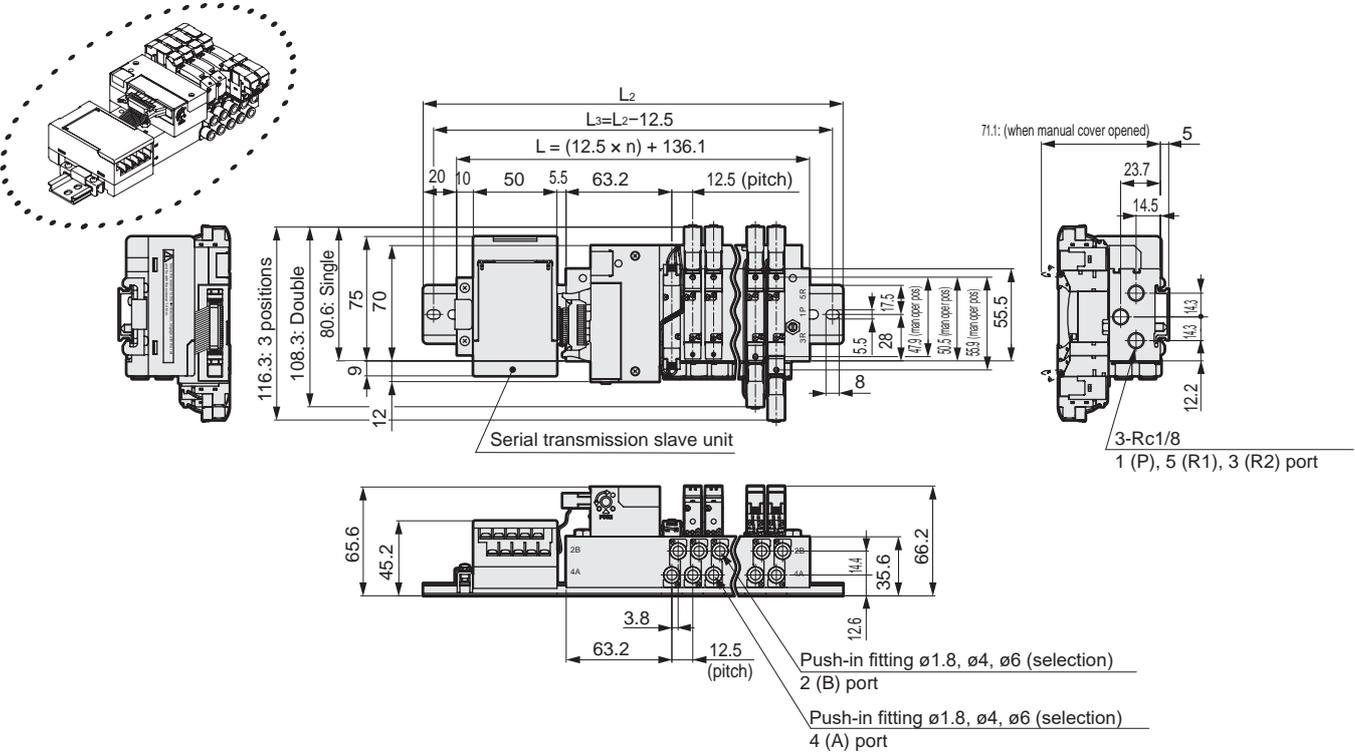
## Dimensions



### M4GB1-P7\*

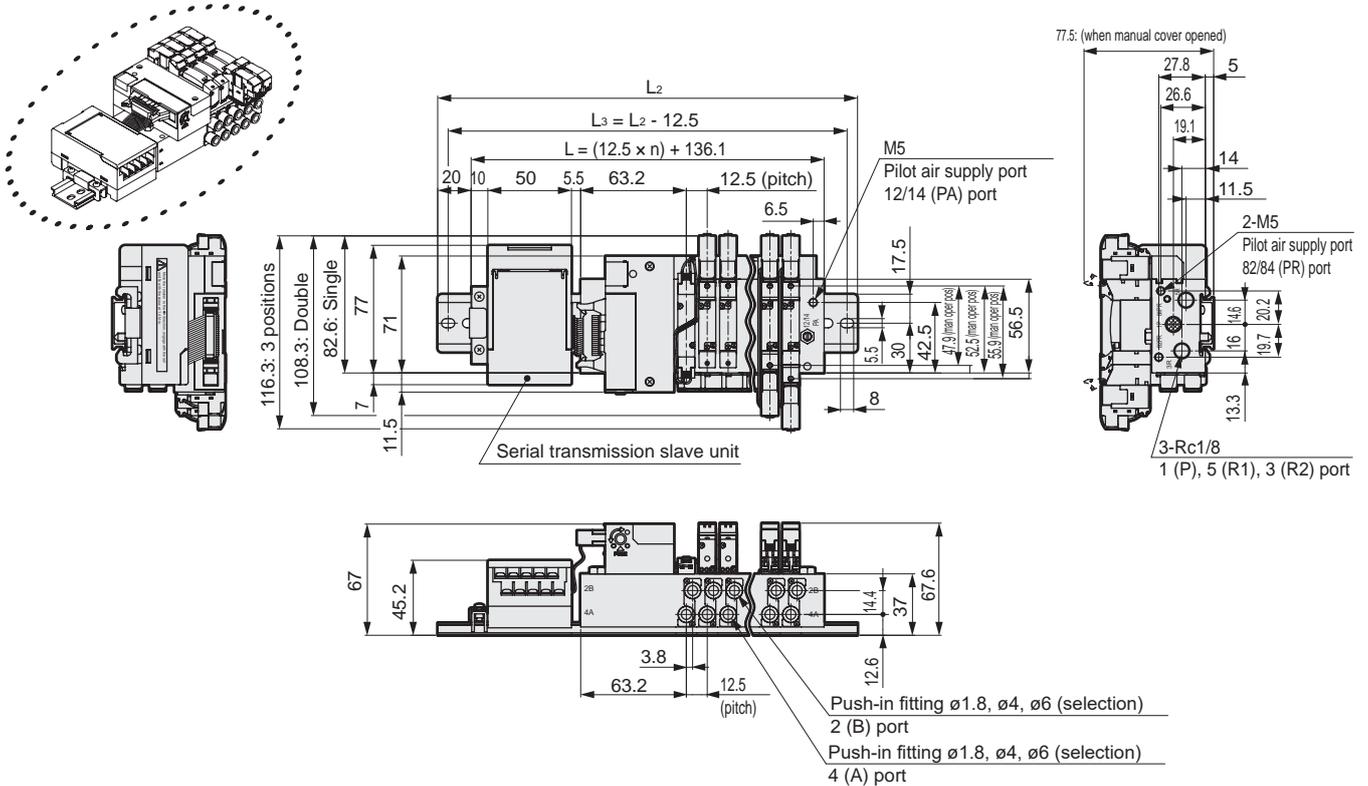
- Serial transmission (T6G1)  
DIN rail mounting (D)

\* The dual 3-port valve integrated has the same dimensions as the double model.



- Serial transmission (T6G1)  
DIN rail mounting (D); external pilot (K)

Note: Refer to page 576 for details on the push-in fitting elbow (facing up/down).



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	161.1	173.6	186.1	198.6	211.1	223.6	236.1	248.6	261.1	273.6	286.1	298.6	311.1	323.6	336.1
L <sub>2</sub>	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0	387.5
L <sub>3</sub>	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0

# M4GB1-T6G1 Series

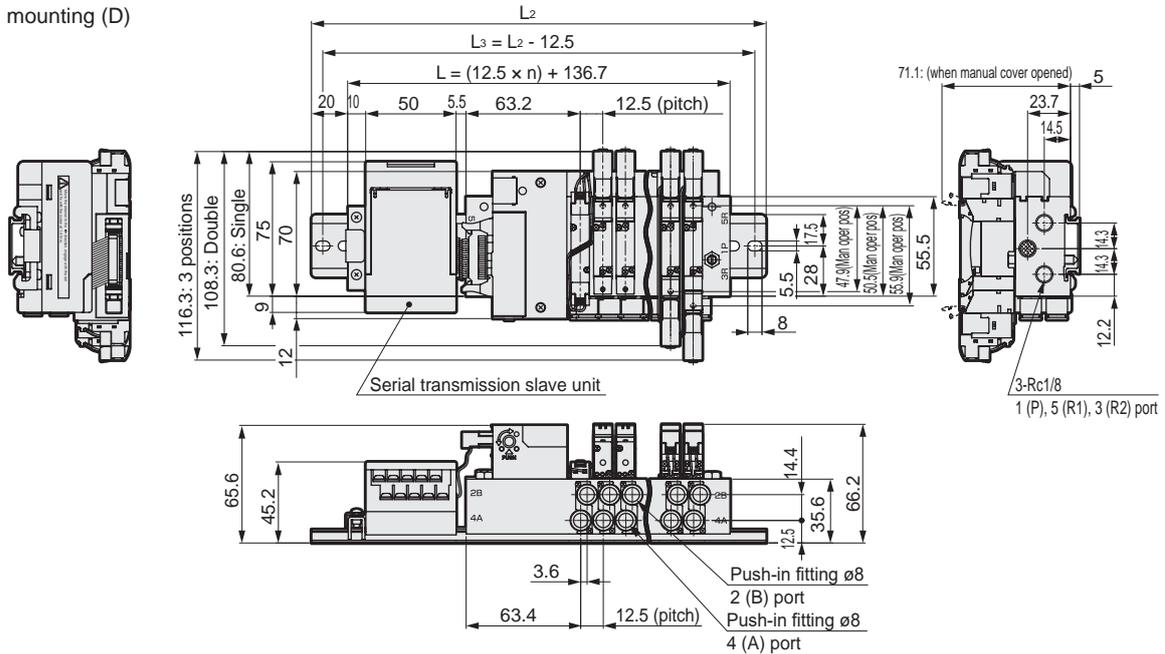
Reduced wiring manifold; base piping; serial transmission

## Dimensions

### M4GB1-C8-P7\*

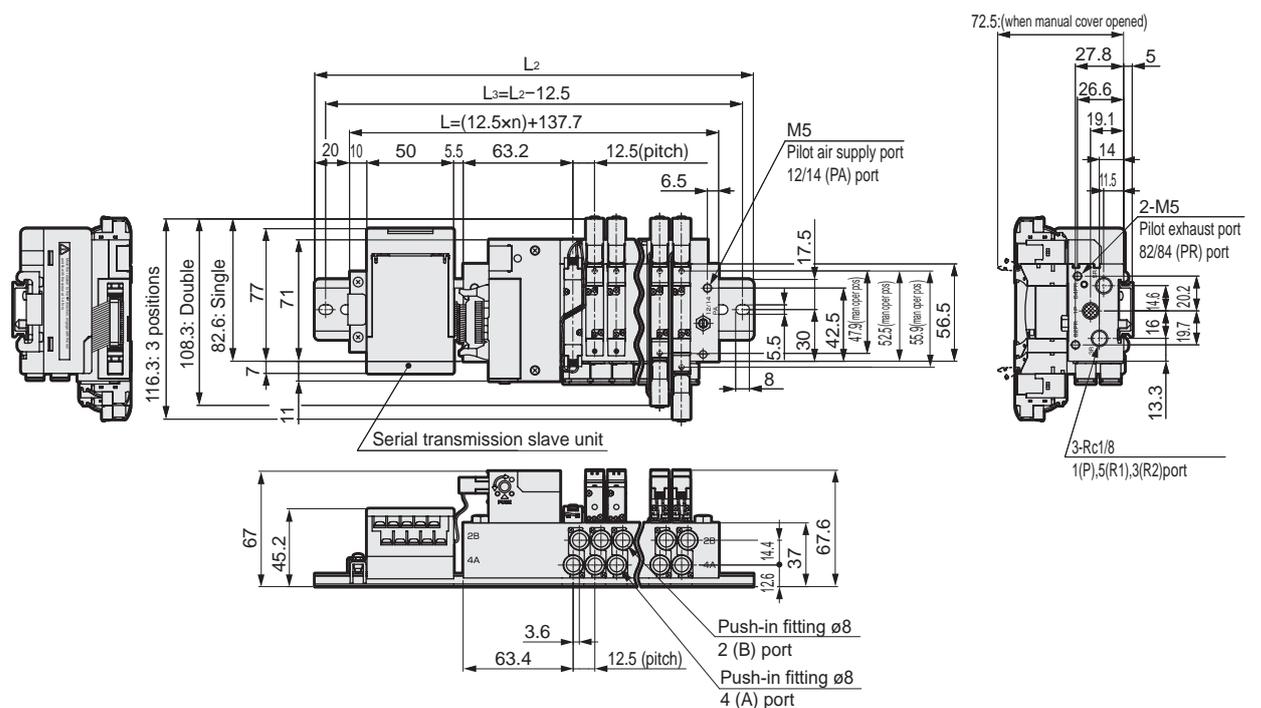
Note: Dedicated manifold base.

- Serial transmission (T6G1)  
DIN rail mounting (D)



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	161.7	174.2	186.7	199.2	211.7	224.2	236.7	249.2	261.7	274.2	286.7	299.2	311.7	324.2	336.7
L <sub>2</sub>	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0	387.5
L <sub>3</sub>	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0

- Serial transmission (T6G1)  
DIN rail mounting (D); external pilot (K)



Station No.	2	3	4	5	6	7	8	9	10	11	12
L	162.8	175.3	187.8	200.3	212.8	225.3	237.8	250.3	262.8	275.3	287.8
L <sub>2</sub>	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5
L <sub>3</sub>	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R. (module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

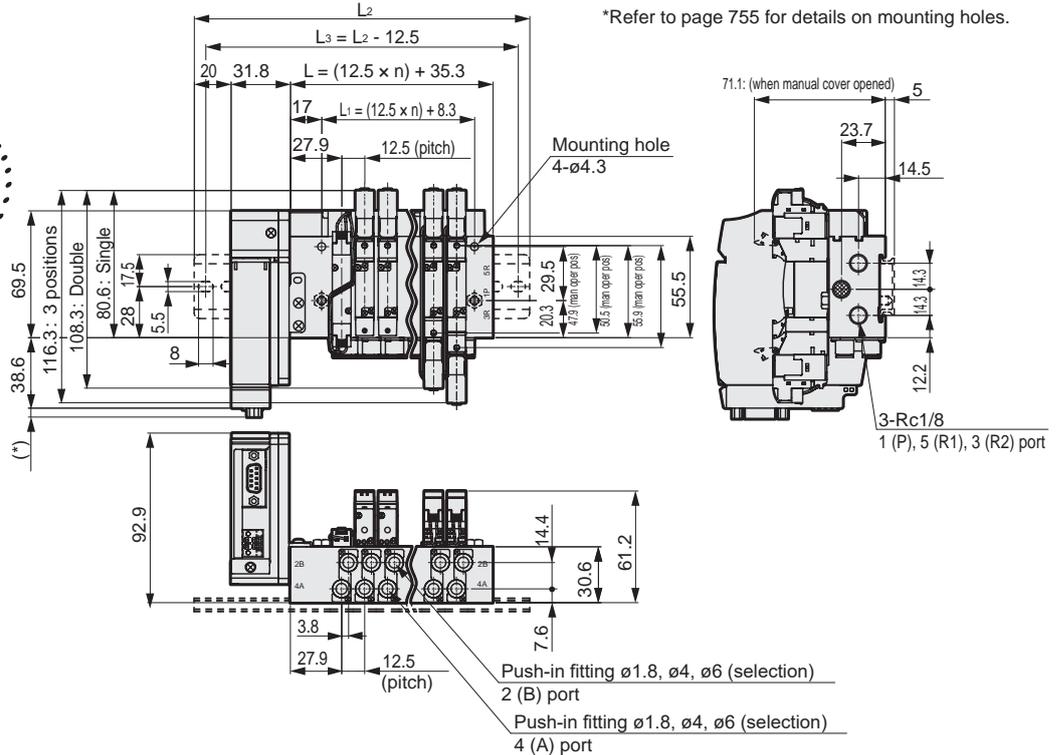
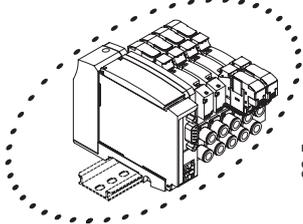
# M4GB1-T8\* Series

Reduced wiring manifold; base piping; serial transmission

## Dimensions

### M4GB1-P7\*

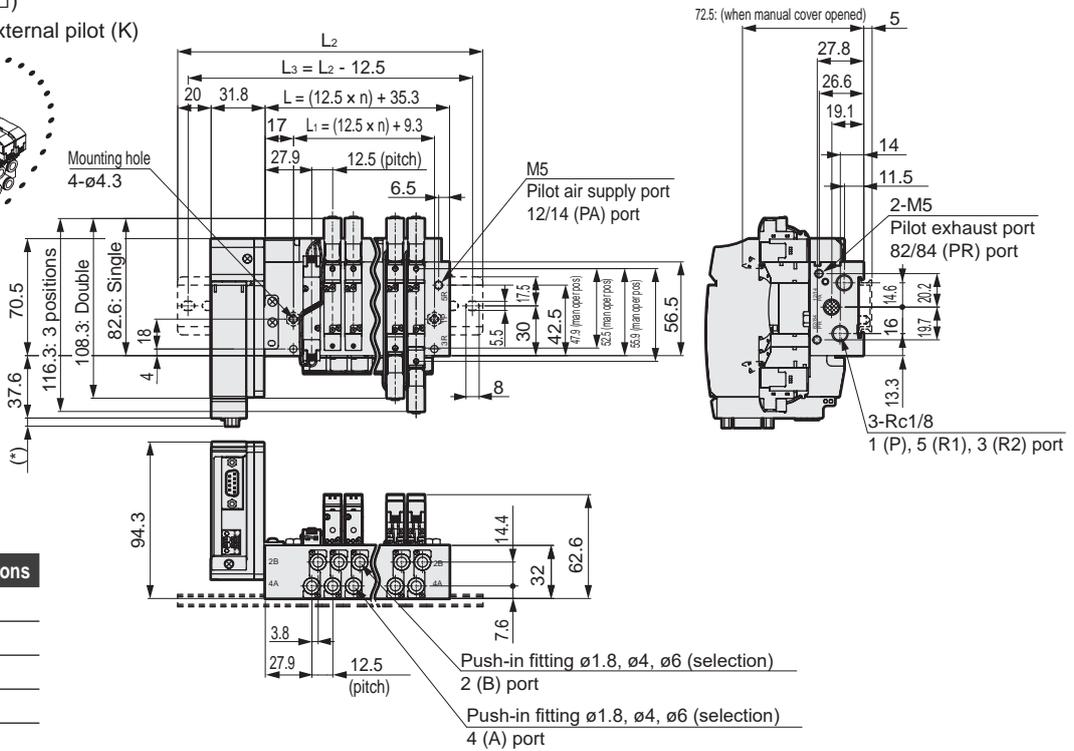
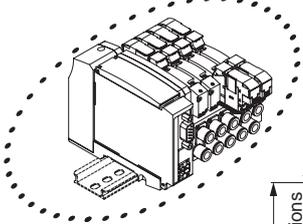
- Serial transmission (T8□)  
DIN rail mounting (D)



Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3	197.8	210.3	222.8	235.3	247.8	260.3	272.8	285.3
L <sub>1</sub>	33.3	45.8	58.3	70.8	83.3	95.8	108.3	120.8	133.3	145.8	158.3	170.8	183.3	195.8	208.3	220.8	233.3	245.8	258.3
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

- Serial transmission (T8□)  
DIN rail mounting (D); external pilot (K)



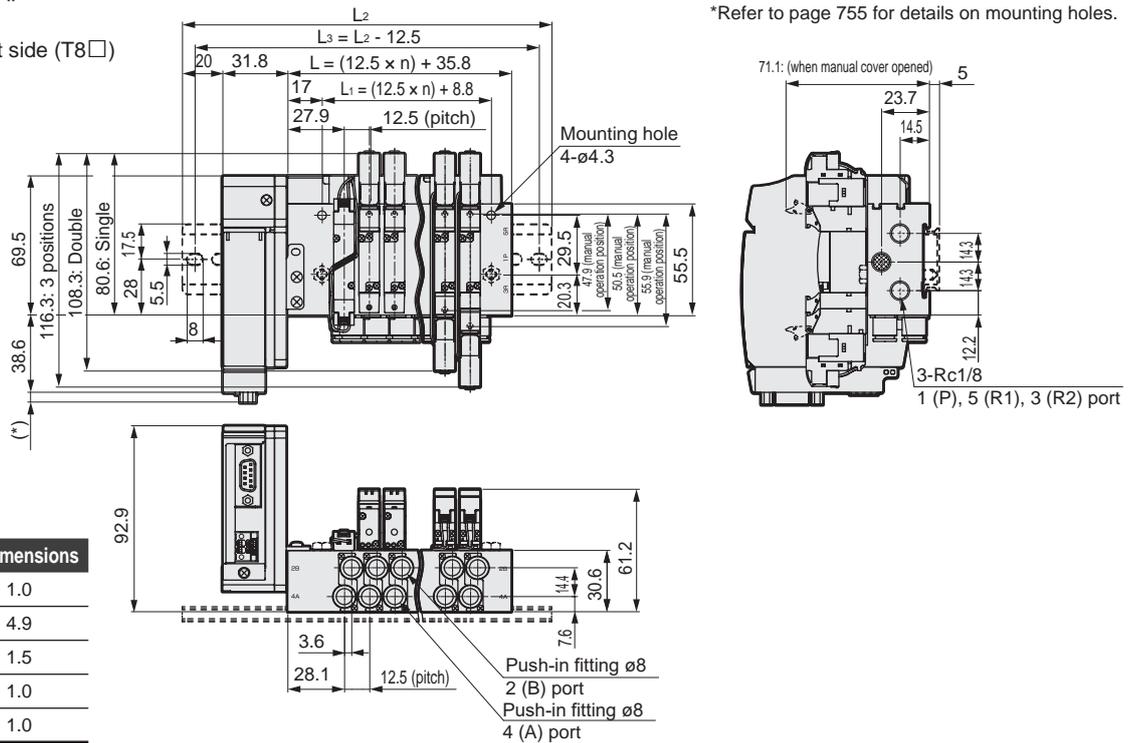
Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

Station No.	2	3	4	5	6	7	8	9	10	11	12
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3
L <sub>1</sub>	34.3	46.8	59.3	71.8	84.3	96.8	109.3	121.8	134.3	146.8	159.3
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

### Dimensions

#### M4GB1-C8-P7\*

● Reduced wiring left side (T8□)



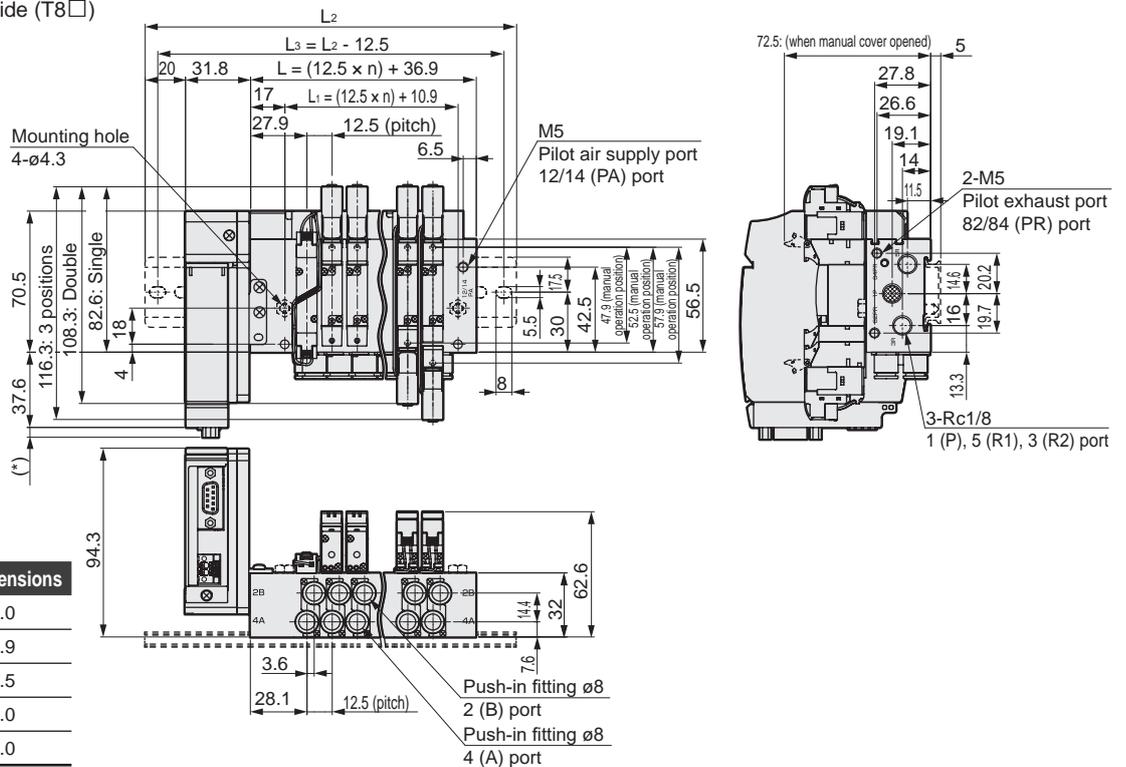
\*Refer to page 755 for details on mounting holes.

Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.8	73.3	85.8	98.3	110.8	123.3	135.8	148.3	160.8	173.3	185.8	198.3	210.8	223.3	235.8	248.3	260.8	273.3	285.8
L <sub>1</sub>	33.8	46.3	58.8	71.3	83.8	96.3	108.8	121.3	133.8	146.3	158.8	171.3	183.8	196.3	208.8	221.3	233.8	246.3	258.8
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

● Reduced wiring left side (T8□)

External pilot (K)



Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

Station No.	2	3	4	5	6	7	8	9	10	11	12
L	61.9	74.4	86.9	99.4	111.9	124.4	136.9	149.4	161.9	174.4	186.9
L <sub>1</sub>	35.9	48.4	60.9	73.4	85.9	98.4	110.9	123.4	135.9	148.4	160.9
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# M4GB1-T\* Series

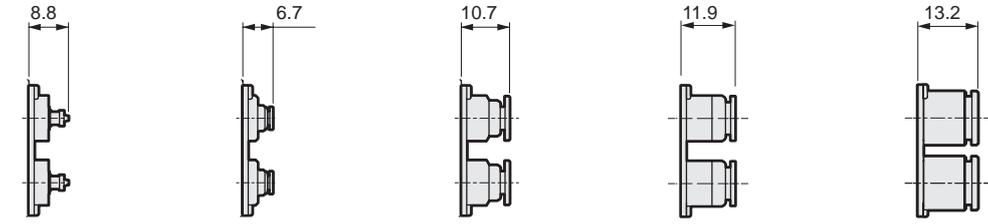
Reduced wiring manifold; base piping

## Dimensions

### M4GB1

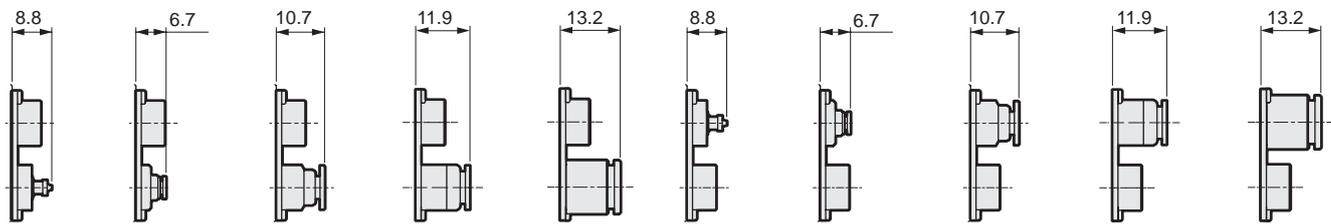
● Straight fitting

- $\varnothing 1.8$  (CF)
- $\varnothing 1.8$  (C18)
- $\varnothing 4$  (C4)
- $\varnothing 6$  (C6)
- $\varnothing 8$  (C8)



● Straight fitting, single plug

- $\varnothing 1.8$  (CFNC)
- $\varnothing 1.8$  (C18NC)
- $\varnothing 4$  (C4NC)
- $\varnothing 6$  (C6NC)
- $\varnothing 8$  (C8NC)
- $\varnothing 1.8$  (CFNO)
- $\varnothing 1.8$  (C18NO)
- $\varnothing 4$  (C4NO)
- $\varnothing 6$  (C6NO)
- $\varnothing 8$  (C8NO)

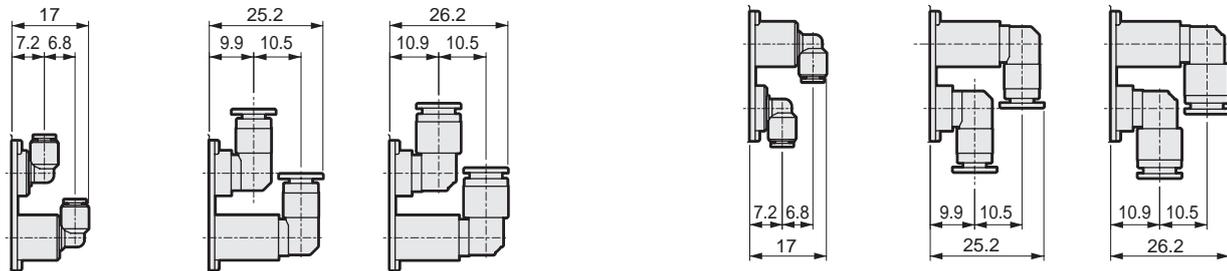


● Radial fitting (facing up)

- $\varnothing 1.8$  (CL18)
- $\varnothing 4$  (CL4)
- $\varnothing 6$  (CL6)

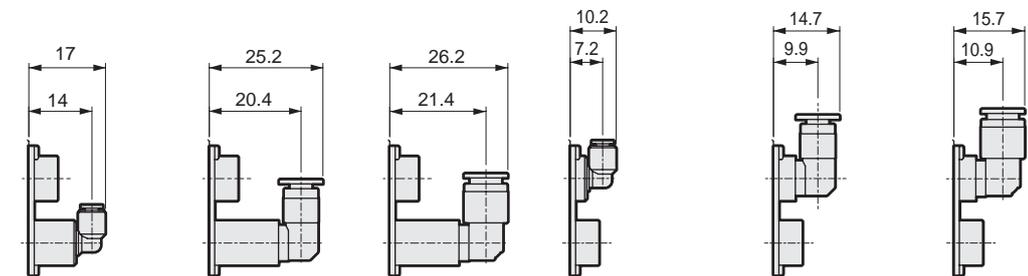
● Radial fitting (facing down)

- $\varnothing 1.8$  (CD18)
- $\varnothing 4$  (CD4)
- $\varnothing 6$  (CD6)



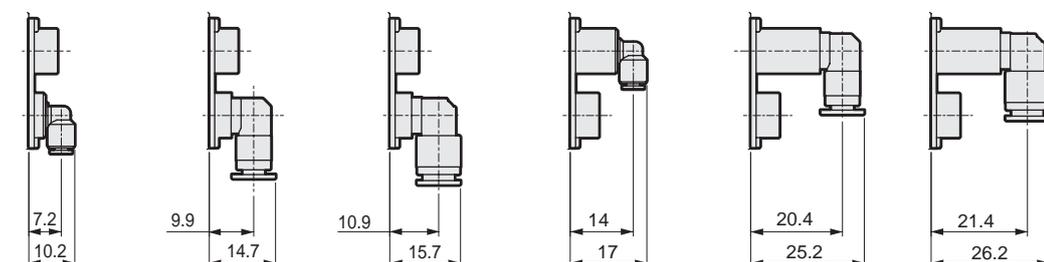
● Radial fitting (facing up), single plug

- $\varnothing 1.8$  (CL18NC)
- $\varnothing 4$  (CL4NC)
- $\varnothing 6$  (CL6NC)
- $\varnothing 1.8$  (CL18NO)
- $\varnothing 4$  (CL4NO)
- $\varnothing 6$  (CL6NO)



● Radial push-in fitting (facing down), single plug

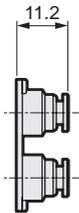
- $\varnothing 1.8$  (CD18NC)
- $\varnothing 4$  (CD4NC)
- $\varnothing 6$  (CD6NC)
- $\varnothing 1.8$  (CD18NO)
- $\varnothing 4$  (CD4NO)
- $\varnothing 6$  (CD6NO)



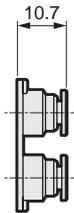
## Dimensions

● Fitting straight

●  $\varnothing 1/8$  inch(C3N)

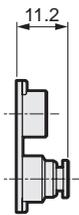


●  $\varnothing 5/32$  inch(C4N)

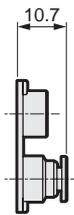


● Straight fitting, single plug

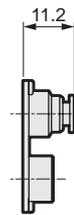
●  $\varnothing 1/8$  inch(C3NCN)



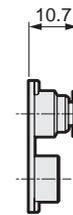
●  $\varnothing 5/32$  inch(C4NCN)



●  $\varnothing 1/8$  inch(C3NON)

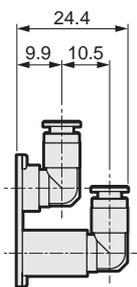


●  $\varnothing 5/32$  inch(C4NON)

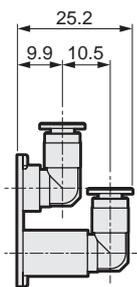


● L fitting (upward)

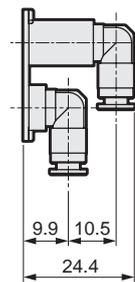
●  $\varnothing 1/8$  inch(CL3N)



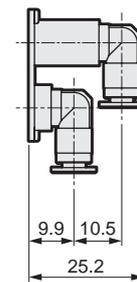
●  $\varnothing 5/32$  inch(CL4N)



●  $\varnothing 1/8$  inch(CD3N)

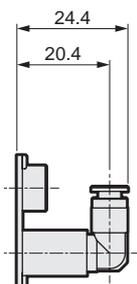


●  $\varnothing 5/32$  inch(CD4N)

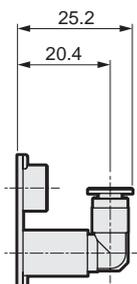


● L fitting (upward), single plug

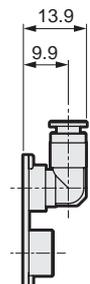
●  $\varnothing 1/8$  inch(CL3NCN)



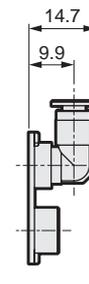
●  $\varnothing 5/32$  inch(CL4NCN)



●  $\varnothing 1/8$  inch(CL3NON)

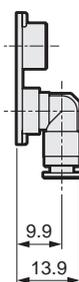


●  $\varnothing 5/32$  inch(CL4NON)

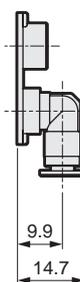


● Radial push-in fitting (downward), single plug

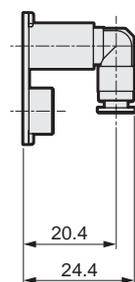
●  $\varnothing 1/8$  inch(CD3NCN)



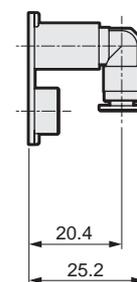
●  $\varnothing 5/32$  inch(CD4NCN)



●  $\varnothing 1/8$  inch(CD3NON)



●  $\varnothing 5/32$  inch(CD4NON)



SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# M4GB2-T\* Series

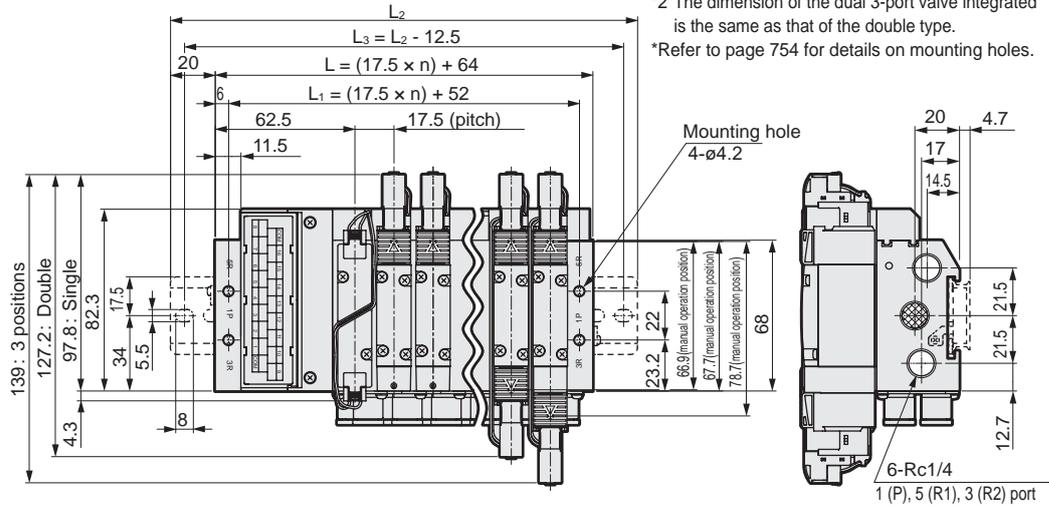
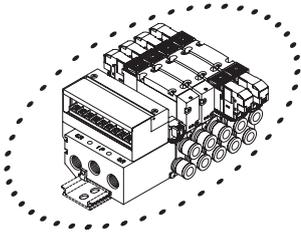
Reduced wiring manifold; base piping

## Dimensions



### M4GB2-P7\*

● Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)



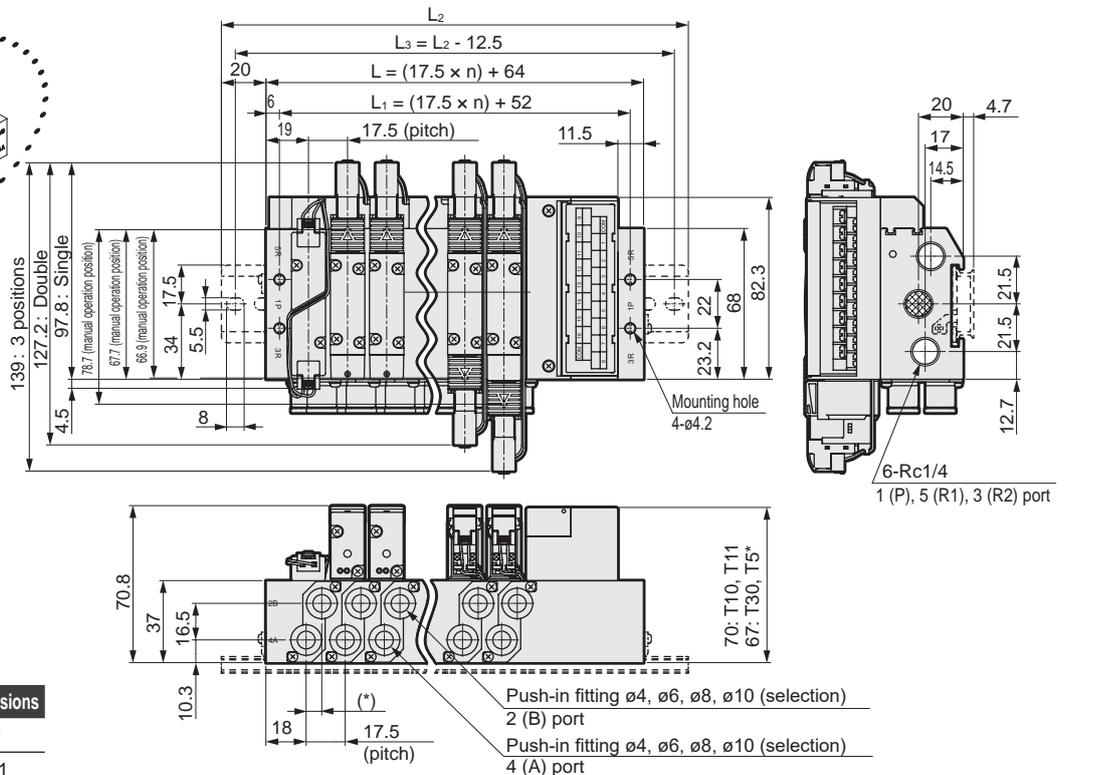
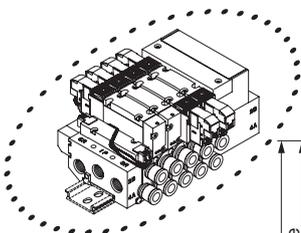
\*1 This drawing shows the T10. Refer to page 590 for detailed dimensions of the electric block.

\*2 The dimension of the dual 3-port valve integrated is the same as that of the double type.

\*Refer to page 754 for details on mounting holes.

A/B port size	* Dimensions
ø4, ø6, ø8	7
ø10	8.1

● Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Note: Refer to page 582 for details on the push-in fitting elbow (facing up/down).

A/B port size	* Dimensions
ø4, ø6, ø8	7
ø10	8.1

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0	396.5	414.0
L1	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0	384.5	402.0
L2	150.0	162.5	175.0	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5				
L3	137.5	150.0	162.5	187.5	200.0	225.0	237.0	250.0	275.0	287.5	312.5	325.0	337.5	362.5	375.0				

# M4GB2-T\* Series

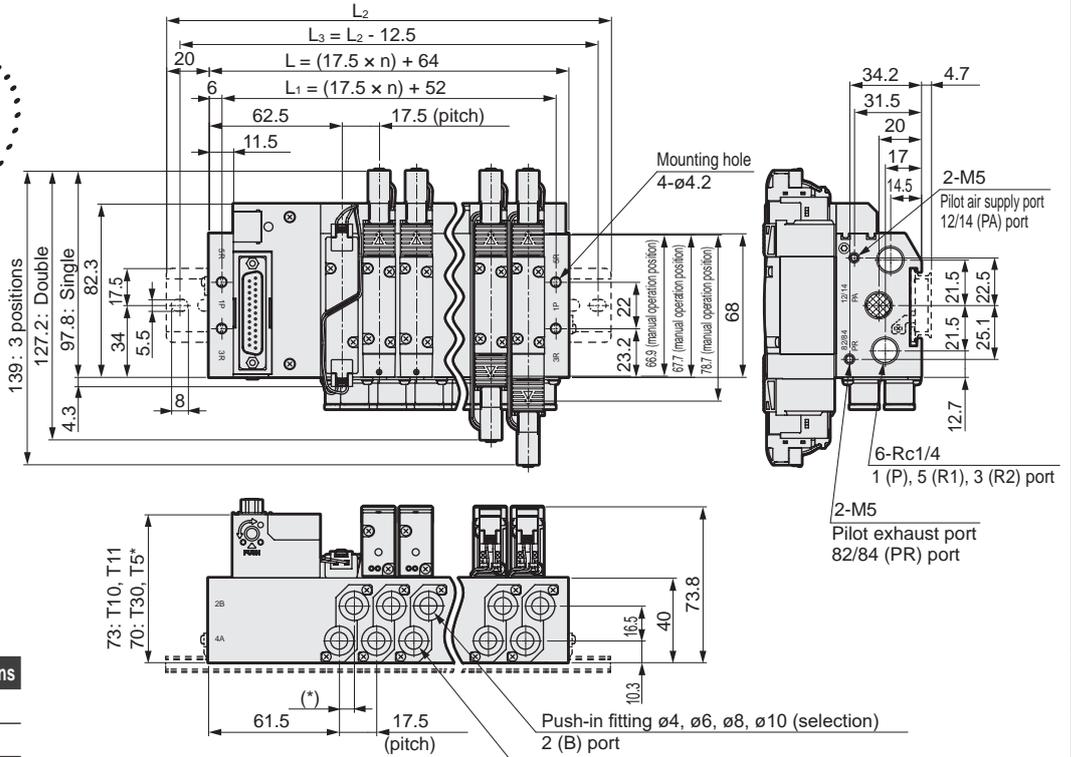
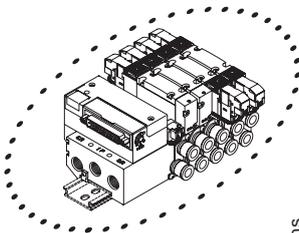
Reduced wiring manifold; base piping

## Dimensions



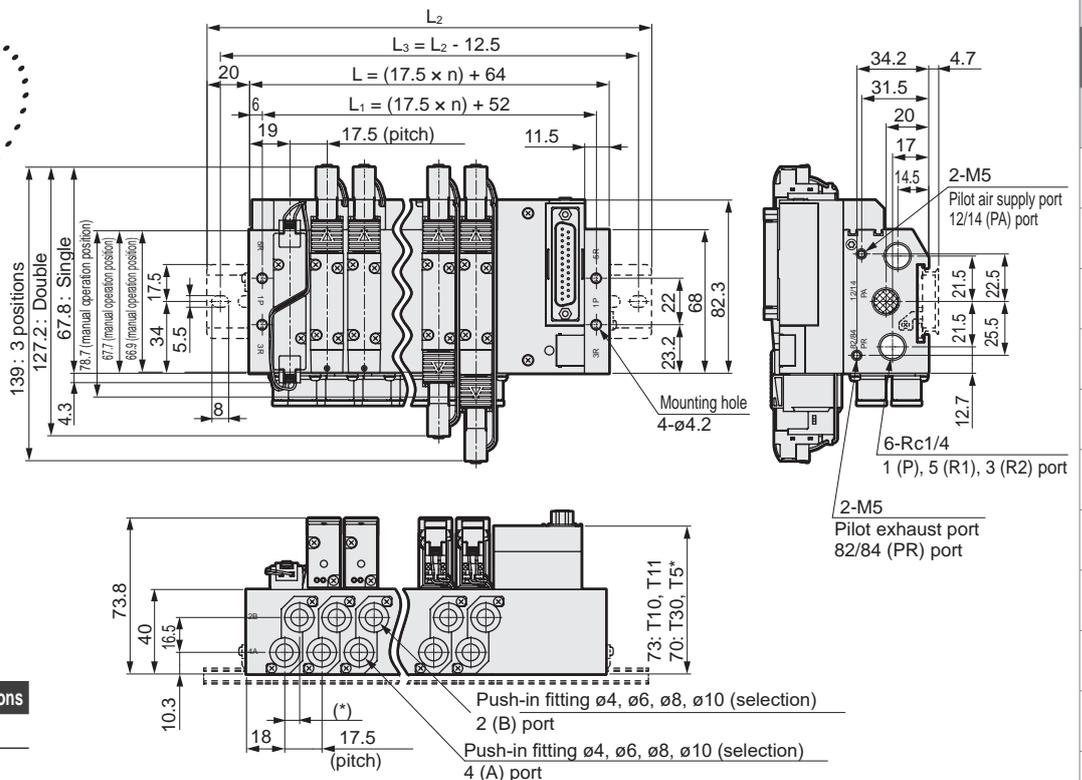
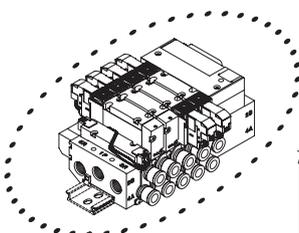
### M4GB2-P7\*

- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)



\* This drawing shows the T30. Refer to page 590 for detailed dimensions of the electric block.  
\* Refer to page 754 for details on mounting holes.

- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



A/B port size	* Dimensions
$\phi 4, \phi 6, \phi 8$	7
$\phi 10$	8.1

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0	396.5	414.0
L <sub>1</sub>	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0	384.5	402.0
L <sub>2</sub>	150.0	162.5	175.0	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5				
L <sub>3</sub>	137.5	150.0	162.5	187.5	200.0	225.0	237.5	250.0	275.0	287.5	312.5	325.0	337.5	362.5	375.0				

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# M4GB2-T6G1 Series

Reduced wiring manifold; base piping; serial transmission

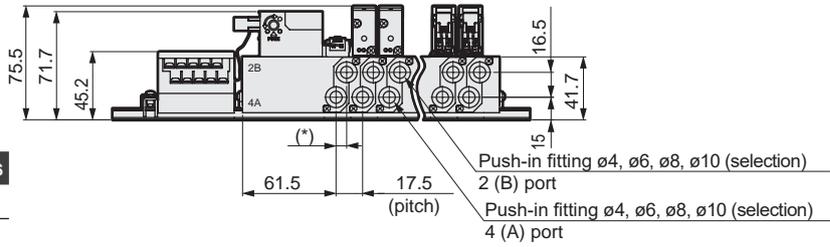
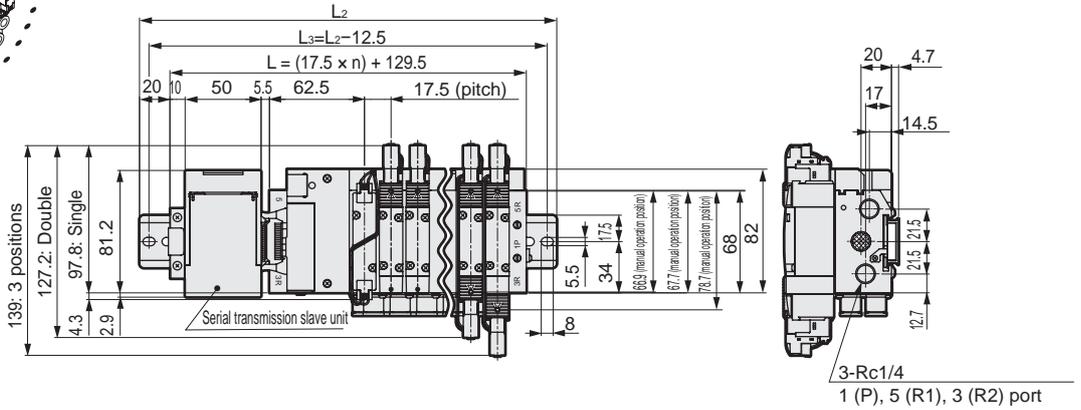
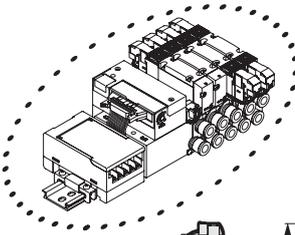
## Dimensions



### M4GB2-P7\*

- Serial transmission (T6G1)  
DIN rail mounting (D)

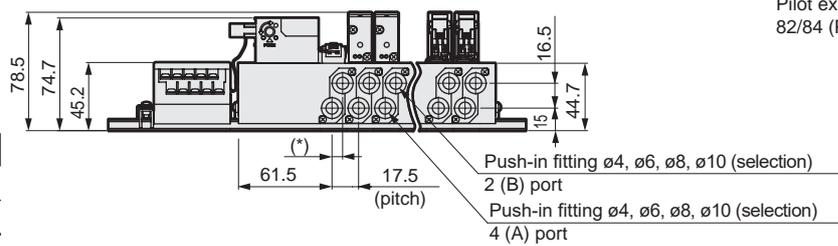
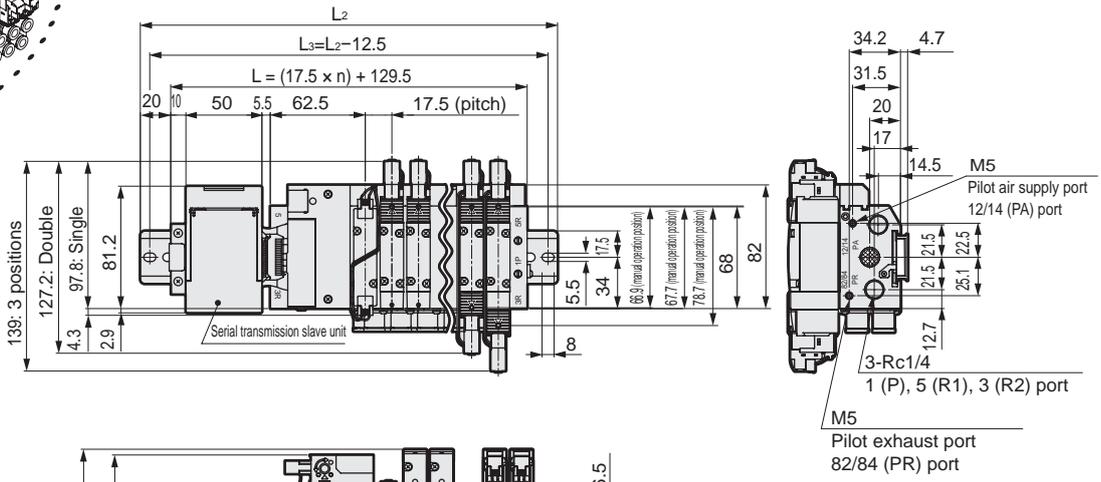
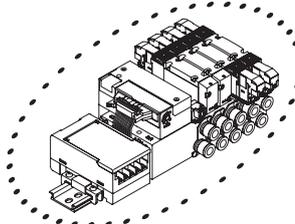
\*The dimension of the dual 3-port valve integrated is the same as that of the double type.



A/B port size	* Dimensions
ø4, ø6, ø8	7
ø10	8.1

- Serial transmission (T6G1)  
DIN rail mounting (D); external pilot (K)

Note: Refer to page 582 for details on the push-in fitting elbow (facing up/down).



A/B port size	* Dimensions
ø4, ø6, ø8	7
ø10	8.1

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	164.5	182.0	199.5	217.0	234.5	252.0	269.5	287.0	304.5	322.0	339.5	357.0	374.5	392.0	409.5
L <sub>2</sub>	212.5	225.0	250.0	262.5	275.0	300.0	312.5	337.5	350.0	362.5	387.5	400.0	425.0	437.5	450.0
L <sub>3</sub>	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5	412.5	425.0	437.5

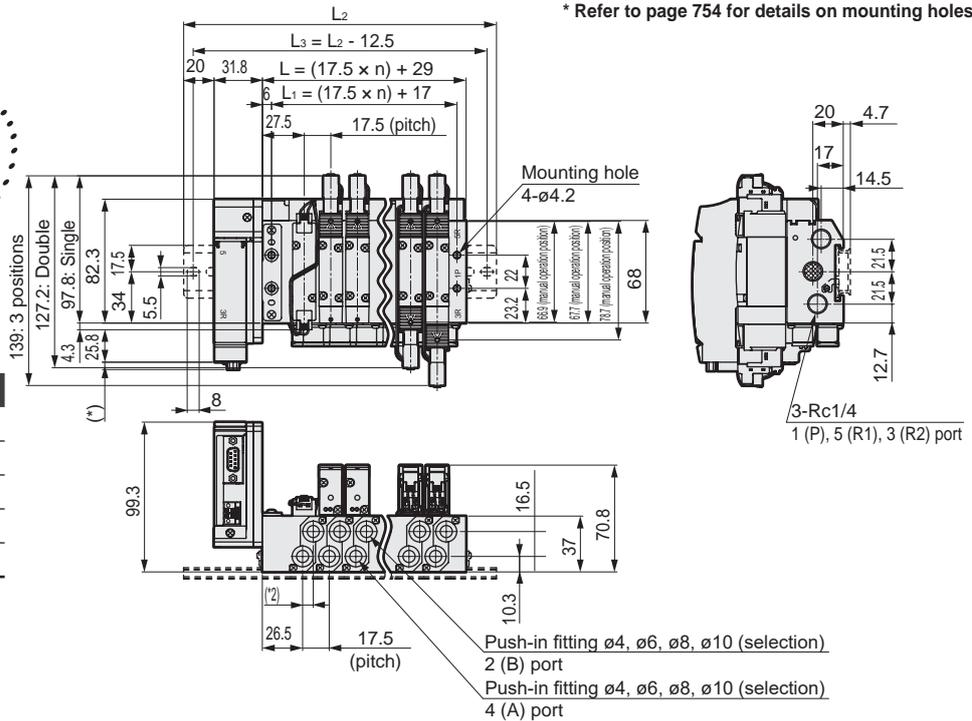
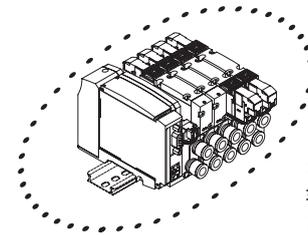
# M4GB2-T8\* Series

Reduced wiring manifold; base piping; serial transmission

## Dimensions

### M4GB2-P7\*

- Serial transmission (T8□)  
DIN rail mounting (D)



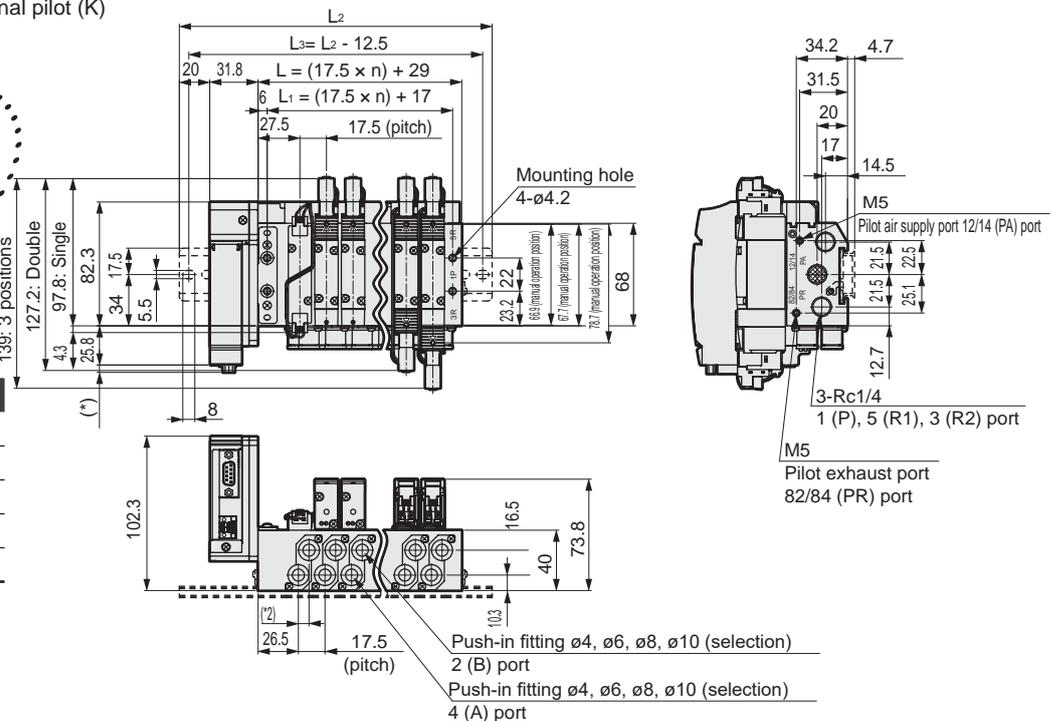
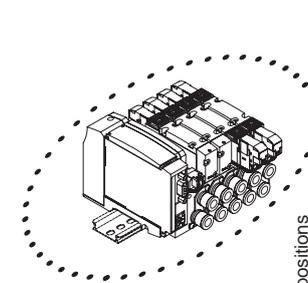
Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

\*2

A/B port size	*2 Dimensions
$\phi 4, \phi 6, \phi 8$	7
$\phi 10$	8.1

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L <sub>1</sub>	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L <sub>2</sub>	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L <sub>3</sub>	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

- Serial transmission (T8□)  
DIN rail mounting (D); external pilot (K)



Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

\*2

A/B port size	*2 Dimensions
$\phi 4, \phi 6, \phi 8$	7
$\phi 10$	8.1

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L <sub>1</sub>	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L <sub>2</sub>	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L <sub>3</sub>	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

# M4GB2-T\* Series

Reduced wiring manifolds; Base piping

## Dimensions

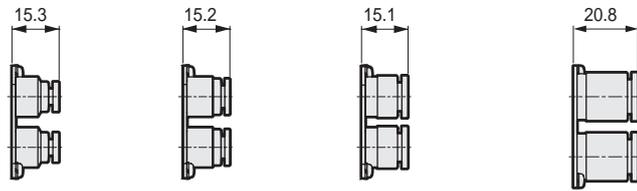
### M4GB2

- Straight fitting
- $\varnothing 4$  (C4)

- $\varnothing 6$  (C6)

- $\varnothing 8$  (C8)

- $\varnothing 10$  (C10)



- Straight fitting, single plug

- $\varnothing 4$  (C4NC)

- $\varnothing 6$  (C6NC)

- $\varnothing 8$  (C8NC)

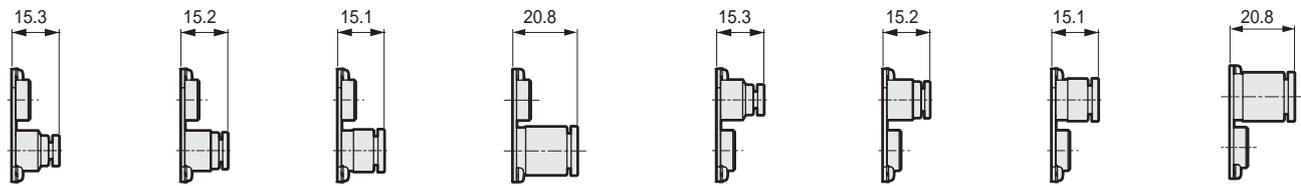
- $\varnothing 10$  (C10NC)

- $\varnothing 4$  (C4NO)

- $\varnothing 6$  (C6NO)

- $\varnothing 8$  (C8NO)

- $\varnothing 10$  (C10NO)



- Radial fitting (facing up)

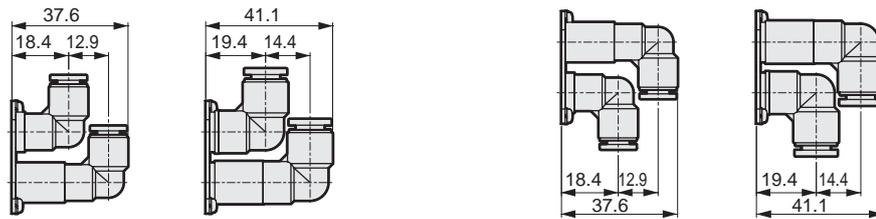
- $\varnothing 6$  (L6)

- $\varnothing 8$  (CL8)

- Radial fitting (facing down)

- $\varnothing 6$  (CD6)

- $\varnothing 8$  (CD8)



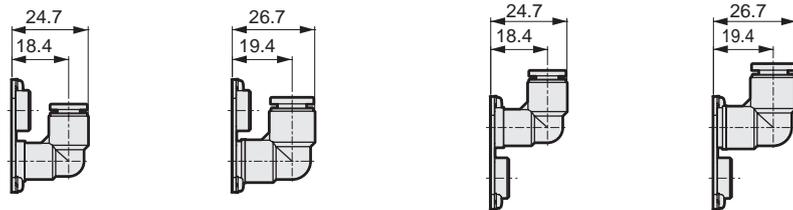
- Radial fitting (facing up), single plug

- $\varnothing 6$  (CL6NC)

- $\varnothing 8$  (CL8NC)

- $\varnothing 6$  (CL6NO)

- $\varnothing 8$  (CL8NO)



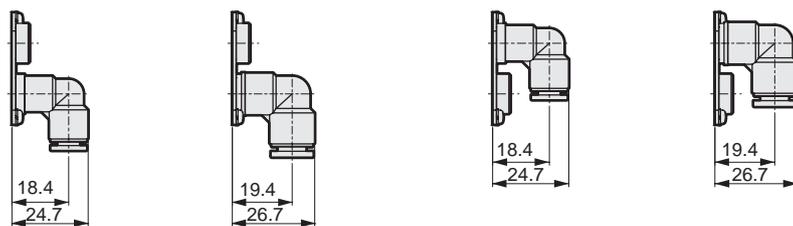
- Radial fitting (facing down), single plug

- $\varnothing 6$  (CD6NC)

- $\varnothing 8$  (CD8NC)

- $\varnothing 6$  (CD6NO)

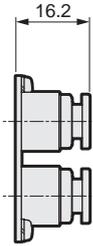
- $\varnothing 8$  (CD8NO)



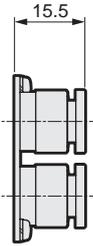
### Dimensions

● Fitting straight

●  $\varnothing 1/4"$  (C6N)

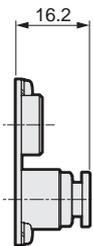


●  $\varnothing 5/16"$  (C8N)

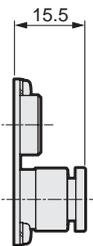


● Straight fitting, single plug

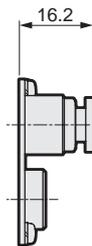
●  $\varnothing 1/4$  inch (C6NCN)



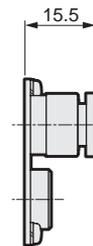
●  $\varnothing 5/16$  inch (C8NCN)



●  $\varnothing 1/4"$  (C6NON)

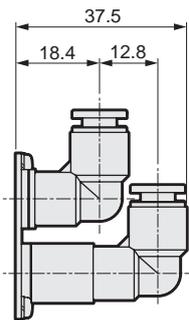


●  $\varnothing 5/16"$  (C8NON)

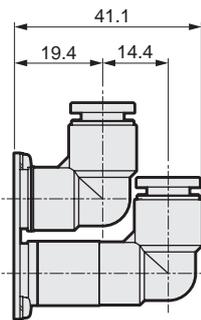


● L fitting (upward)

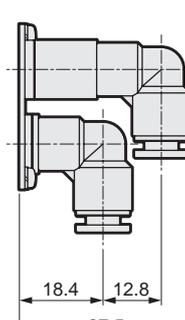
●  $\varnothing 1/4$  inch (CL6N)



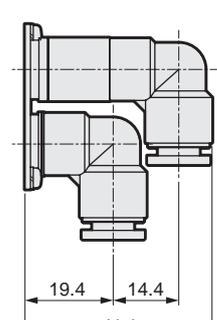
●  $\varnothing 5/16$  inch (CL8N)



●  $\varnothing 1/8$  inch (CD6N)

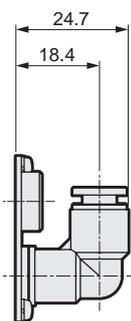


●  $\varnothing 5/32$  inch (CD8N)

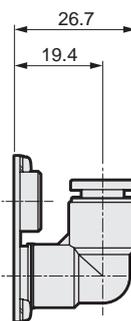


● L fitting (upward), single plug

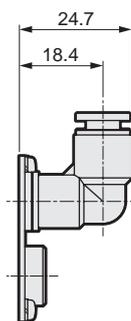
●  $\varnothing 1/4$  inch (CL6NCN)



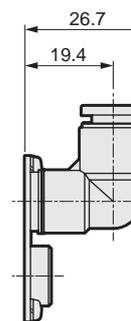
●  $\varnothing 5/16$  inch (CL8NCN)



●  $\varnothing 1/4"$  (CL6NON)

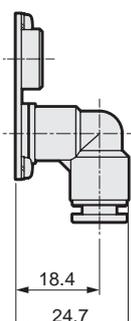


●  $\varnothing 5/16"$  (CL8NON)

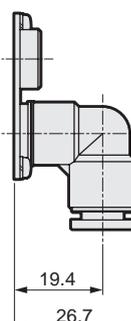


● L fitting (downward), single plug

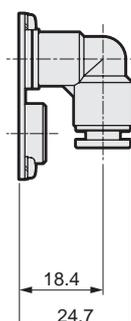
●  $\varnothing 1/4$  inch (CD6NCN)



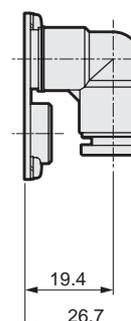
●  $\varnothing 5/16$  inch (CD8NCN)



●  $\varnothing 1/4"$  (CD6NON)



●  $\varnothing 5/16"$  (CD8NON)



SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder Switch

MN3E

MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module unit)

Clean F.R

Precision R

Press gauge

Diff. press gauge

Electro-pneumatic R

Speed controller

Auxiliary valve

Fitting/ tube

Clean air unit

Pressure sensor

Flow rate sensor

Valve for air blow

Ending

# M4GB3-T\* Series

Reduced wiring manifold; base piping

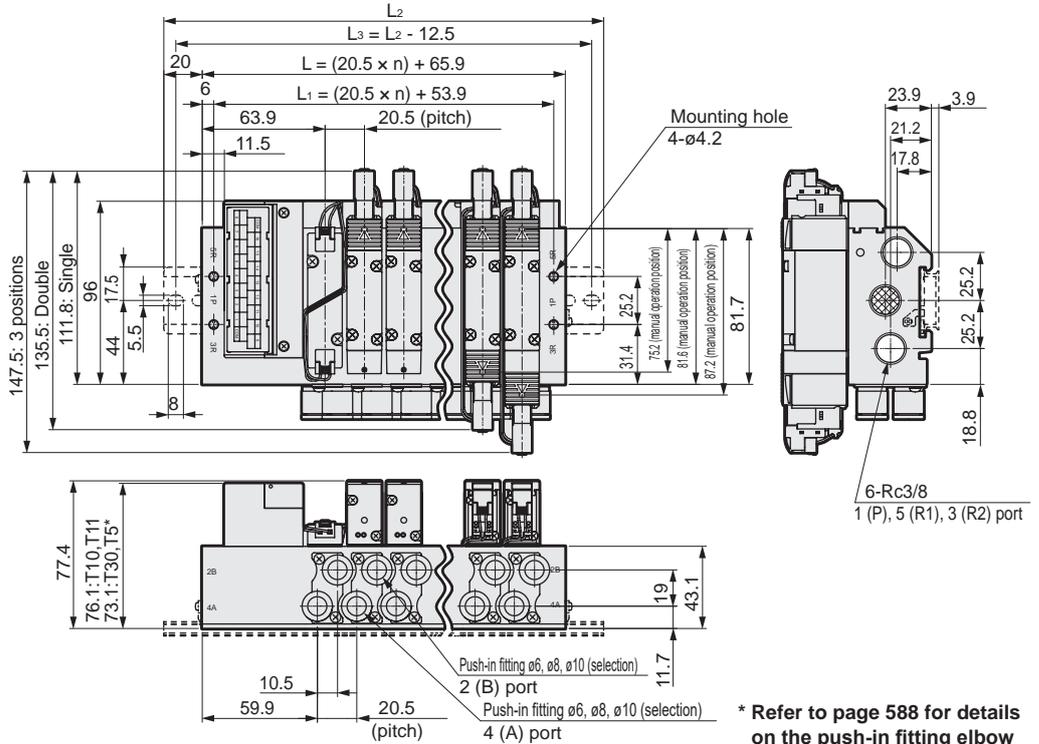
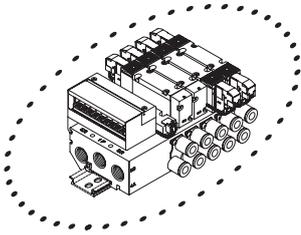
## Dimensions



### M4GB3-P7\*

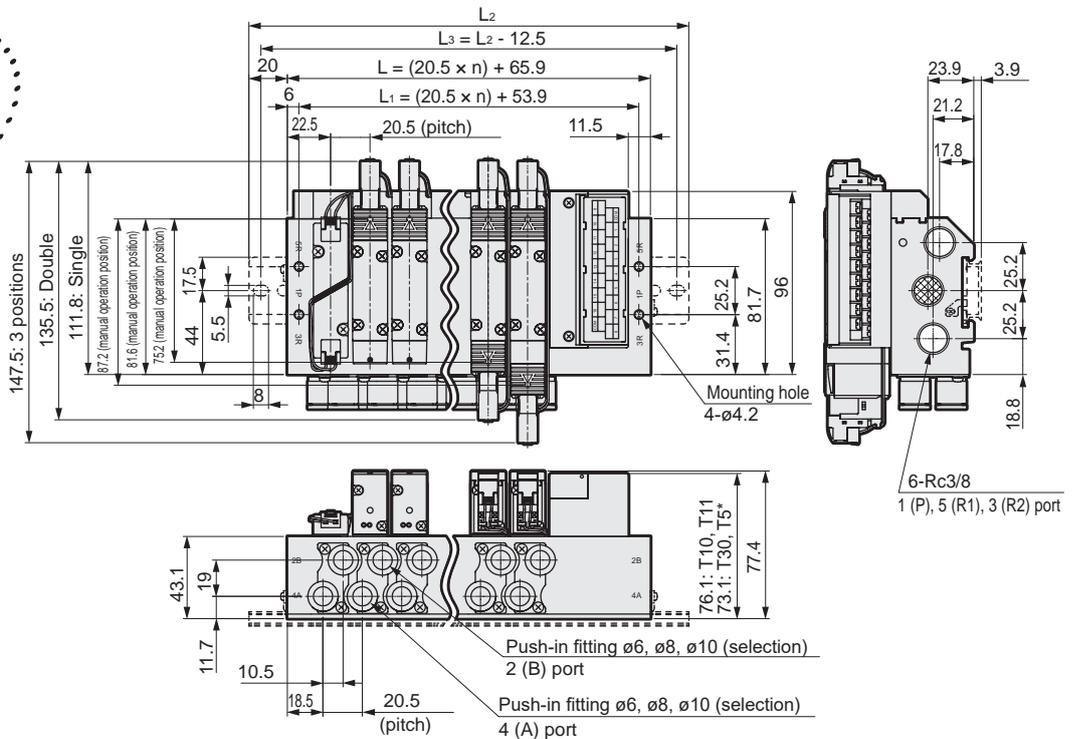
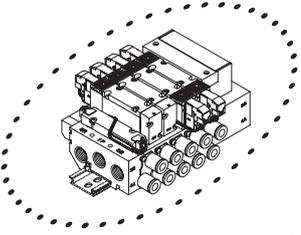
● Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)

\* This drawing shows the T10. Refer to page 590 for detailed dimensions of the electric block.  
\* Refer to page 754 for details on mounting holes.



● Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)

\* Refer to page 588 for details on the push-in fitting elbow (facing up/down).



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	106.9	127.4	147.9	168.4	188.9	209.4	229.9	250.4	270.9	291.4	311.9	332.4	352.9	373.4	393.9
L <sub>1</sub>	94.9	115.4	135.9	156.4	176.9	197.4	217.9	238.4	258.9	279.4	299.9	320.4	340.9	361.4	381.9
L <sub>2</sub>	150.0	175.0	200.0	212.5	237.5	250.0	275.0	300.0	312.5	337.5	362.5	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	187.5	200.0	225.0	237.5	262.5	287.5	300.0	325.0	350.0	362.5	387.5	400.0	425.0



# M4GB3-T6G1 Series

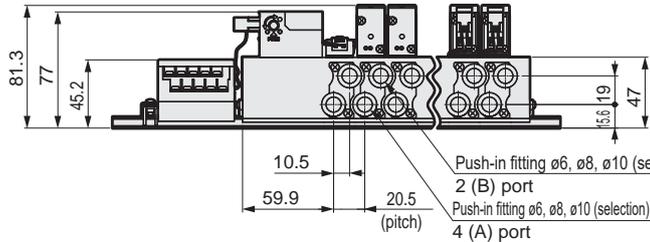
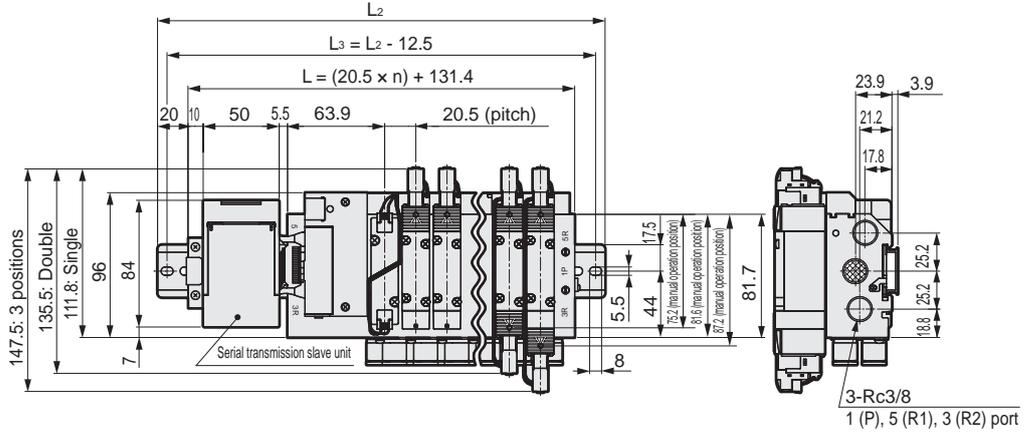
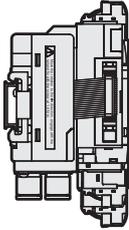
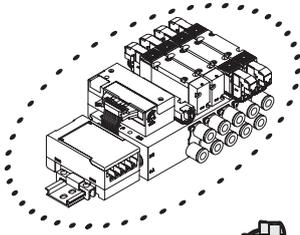
Reduced wiring manifold; base piping; serial transmission

## Dimensions



### M4GB3-P7\*

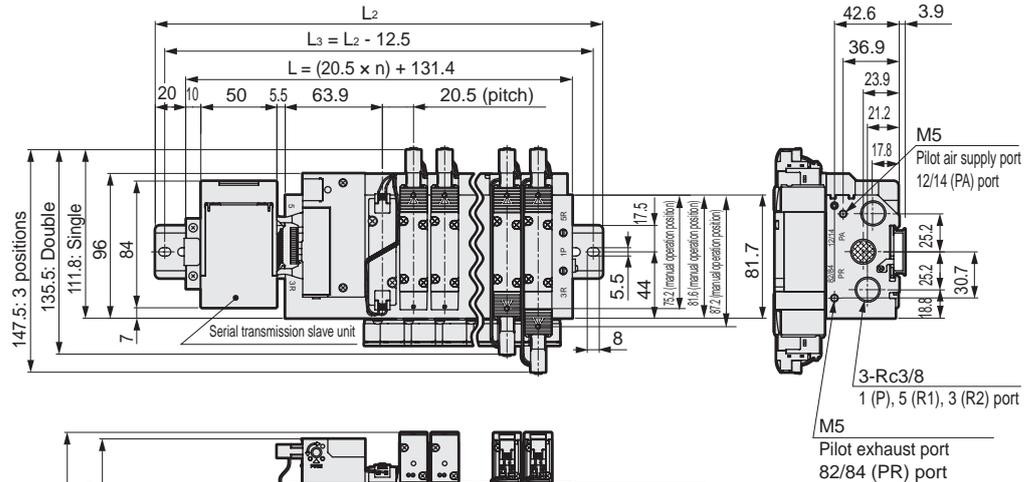
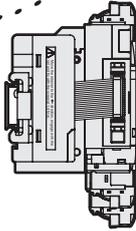
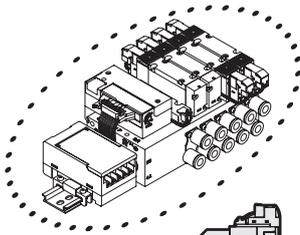
- Serial transmission (T6G1)
- DIN rail mounting (D)



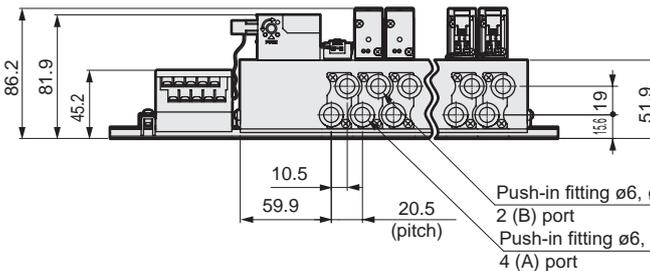
\* Refer to page 588 for details on the push-in fitting elbow (facing up/down).

3-Rc3/8  
1 (P), 5 (R1), 3 (R2) port

- Serial transmission (T6G1)
- DIN rail mounting (D); external pilot (K)



M5  
Pilot exhaust port  
82/84 (PR) port



Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	172.4	192.9	213.4	233.9	254.4	274.9	295.4	315.9	336.4	356.9	377.4	397.9	418.4	438.9	459.4
L2	212.5	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0	450.0	462.5	487.5	500.0
L3	200.0	225.0	250.0	262.5	287.5	312.5	325.0	350.0	375.0	387.5	412.5	437.5	450.0	475.0	487.5

# M4GB3-T8\* Series

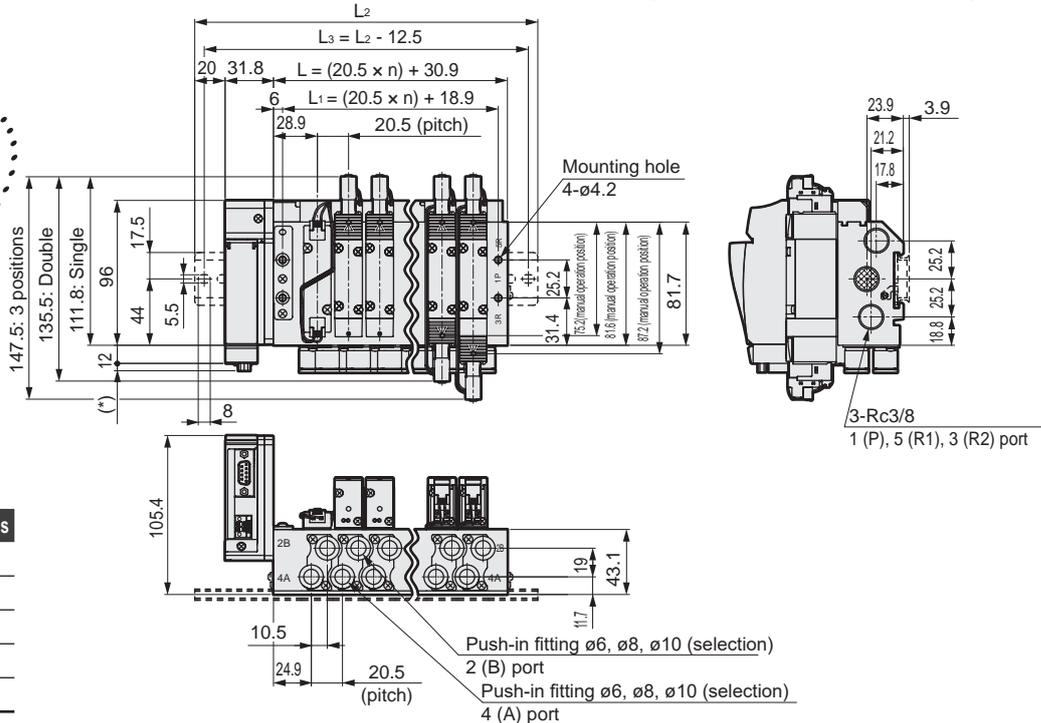
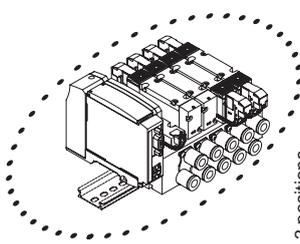
Reduced wiring manifold; base piping; serial transmission

## Dimensions

### M4GB3-P7\*

\* Refer to page 754 for details on mounting holes.

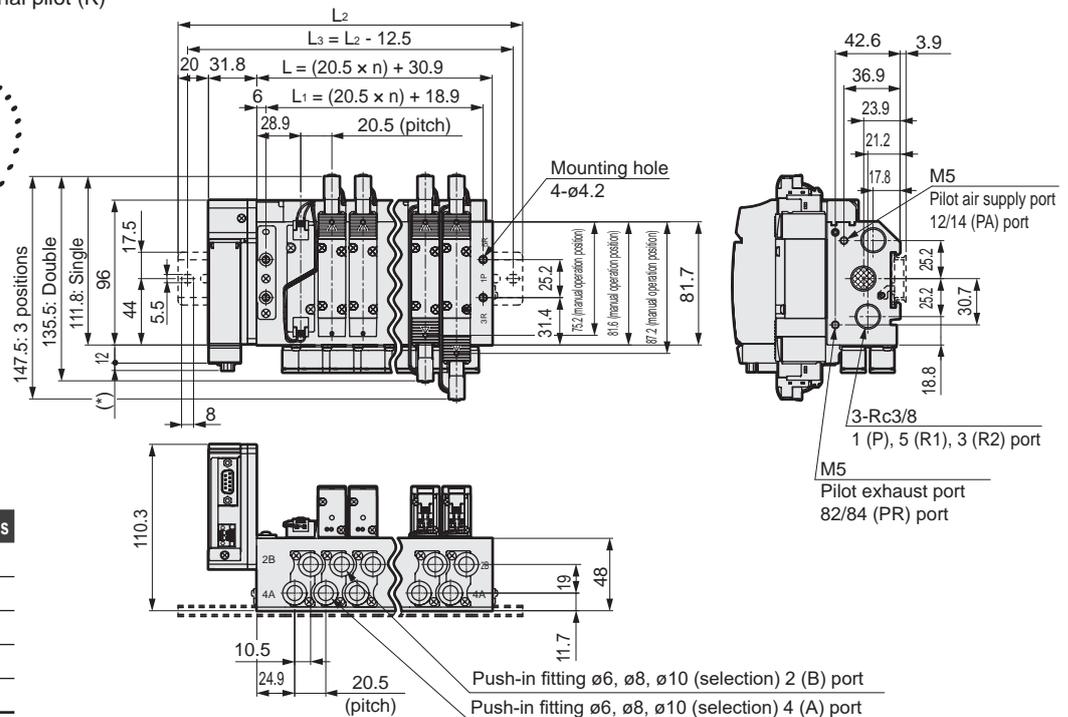
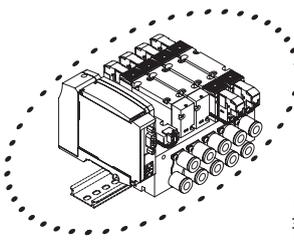
- Serial transmission (T8□)
- DIN rail mounting (D)



Serial transmission	* Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L <sub>1</sub>	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L <sub>2</sub>	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

- Serial transmission (T8□)
- DIN rail mounting (D); external pilot (K)



Serial transmission	* Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5
T8D□	1.0
T8K□	1.0

Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L <sub>1</sub>	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L <sub>2</sub>	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R. (module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

# M4GB3-T\* Series

Reduced wiring manifold; base piping

## Dimensions

SCPD3  
SCM  
SSD2  
MDC2  
SMG  
LCM  
LCR  
LCG  
LCX  
STM  
STG  
STR2  
MRL2  
GRC  
Cylinder switch  
MN3E  
MN4E  
4GA/B  
M4GA/B  
MN4GA/B  
F.R (module unit)  
Clean F.R  
Precision R  
Press gauge  
Diff. press gauge  
Electro-pneumatic R  
Speed controller  
Auxiliary valve  
Fitting/tube  
Clean air unit  
Pressure sensor  
Flow rate sensor  
Valve for air blow  
Ending

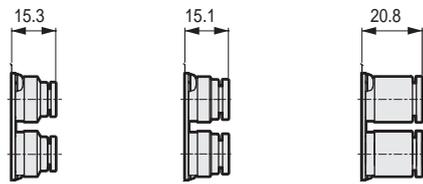
### M4GB3

● Straight fitting

●  $\varnothing 6$  (C6)

●  $\varnothing 8$  (C8)

●  $\varnothing 10$  (C10)



● Straight fitting, single plug

●  $\varnothing 6$  (C6NC)

●  $\varnothing 8$  (C8NC)

●  $\varnothing 10$  (C10NC)

●  $\varnothing 6$  (C6NO)

●  $\varnothing 8$  (C8NO)

●  $\varnothing 10$  (C10NO)



● Radial fitting (facing up)

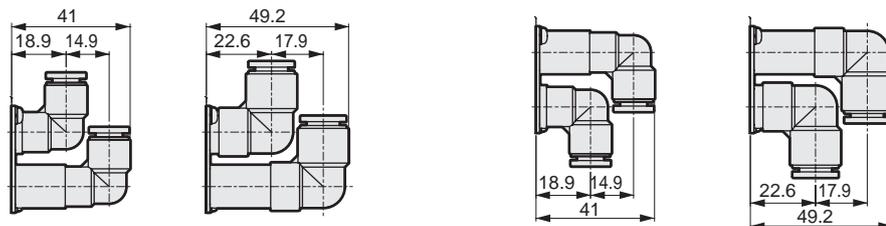
●  $\varnothing 8$  (CL8)

●  $\varnothing 10$  (CL10)

● Radial fitting (facing down)

●  $\varnothing 8$  (CD8)

●  $\varnothing 10$  (CD10)



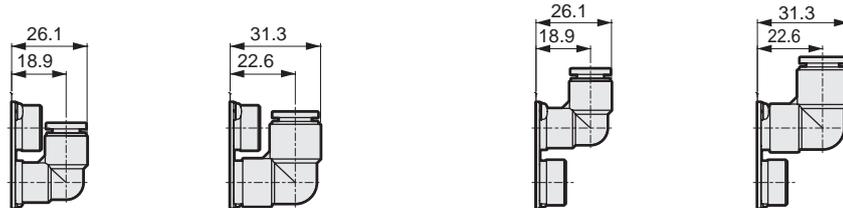
● Radial fitting (facing up), single plug

●  $\varnothing 8$  (CL8NC)

●  $\varnothing 10$  (CL10NC)

●  $\varnothing 8$  (CL8NO)

●  $\varnothing 10$  (CL10NO)



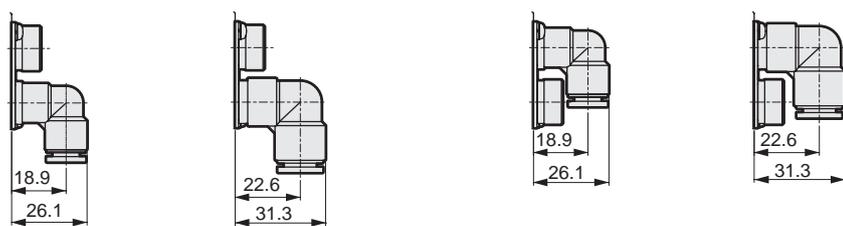
● Radial fitting (facing down), single plug

●  $\varnothing 8$  (CD8NC)

●  $\varnothing 10$  (CD10NC)

●  $\varnothing 8$  (CD8NO)

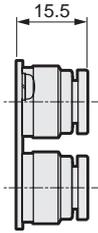
●  $\varnothing 10$  (CD10NO)



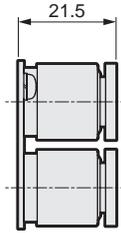
## Dimensions

● Fitting straight

●  $\varnothing 5/16"$  (C8N)

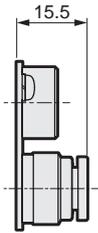


●  $\varnothing 3/8"$  (C10N)

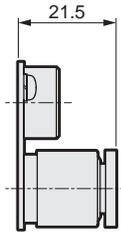


● Straight fitting, single plug

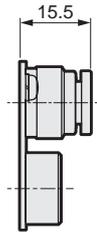
●  $\varnothing 5/16$  inch (C8NCN)



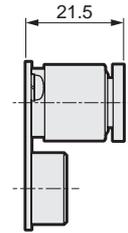
●  $\varnothing 3/8$  inch (C10NCN)



●  $\varnothing 5/16"$  (C8NON)

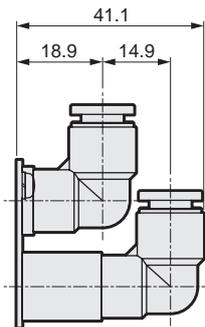


●  $\varnothing 3/8"$  (C10NON)

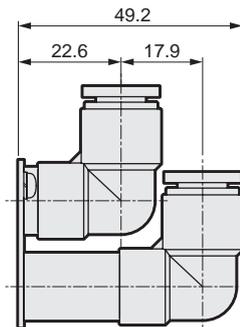


● L fitting (upward)

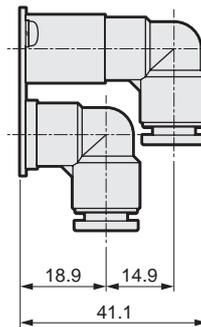
●  $\varnothing 5/16$  inch (CL8N)



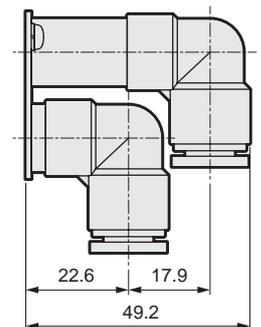
●  $\varnothing 3/8$  inch (CL10N)



●  $\varnothing 5/16$  inch (CD8N)

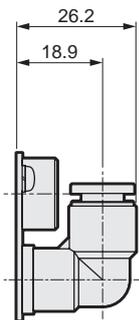


●  $\varnothing 3/8$  inch (CD10N)

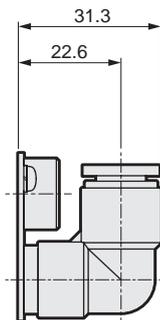


● L fitting (upward), single plug

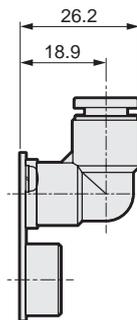
●  $\varnothing 5/16$  inch (CL8NCN)



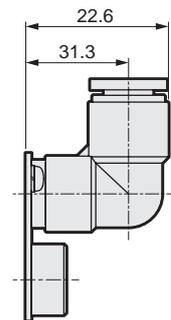
●  $\varnothing 3/8$  inch (CL10NCN)



●  $\varnothing 5/16"$  (CL8NON)

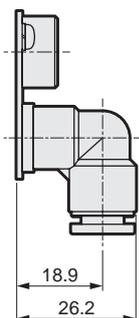


●  $\varnothing 3/8"$  (CL10NON)

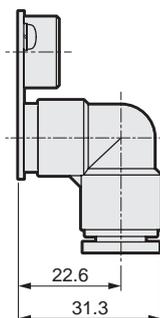


● L fitting (downward), single plug

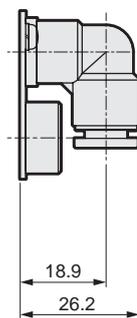
●  $\varnothing 5/16$  inch (CD8NCN)



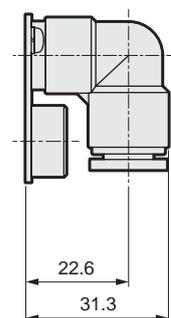
●  $\varnothing 3/8$  inch (CD10NCN)



●  $\varnothing 5/16"$  (CD8NON)



●  $\varnothing 3/8"$  (CD10NON)



SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder  
Switch

MN3E  
MN4E

4GA/B

M4GA/B

MN4GA/B

F.R. (module  
unit)

Clean  
F.R.

Precision  
R

Press gauge  
Diff. press gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

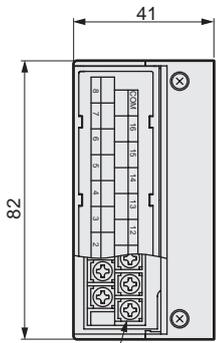
# M4GB1/2/3-T\* Series

Reduced wiring manifold; base piping

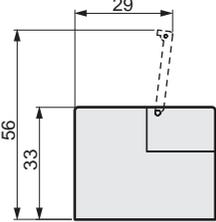
## Reduced wiring section: dimensions

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder switch
MN3E MN4E
4GA/B
<b>M4GA/B</b>
MN4GA/B
F.R (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/ tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

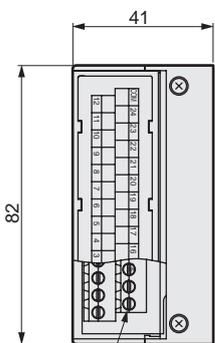
● Common terminal block (M3 thread) T10



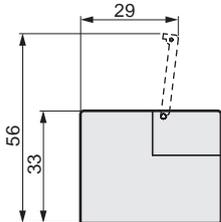
18-M3 Terminal



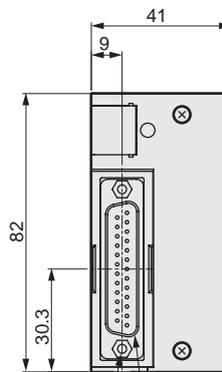
● Common terminal block (clamping) T11



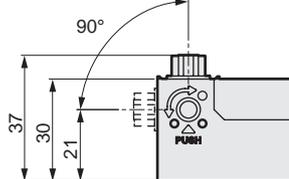
26-M3 Clamping terminal



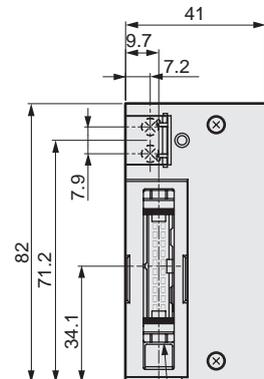
● D sub-contractor T30



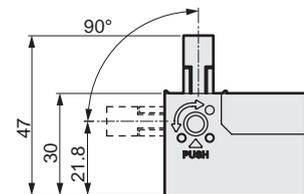
2-M2.6 D sub-contractor



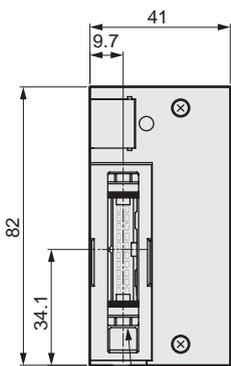
● 20 pin flat cable connector (with power supply terminal) T50



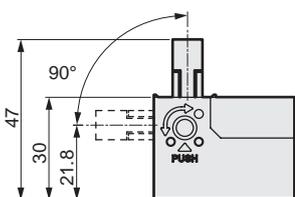
20-pole connector MIL Standards compliant product



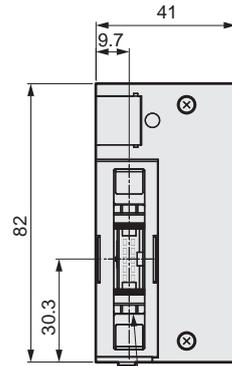
● 20 pin flat cable connector (without power supply terminal) T51



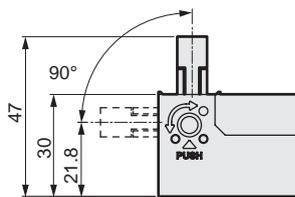
20-pole connector MIL Standards compliant product



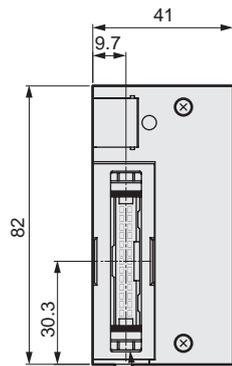
● 10 pin flat cable connector (without power supply terminal) T52



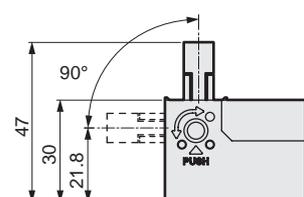
10-pole connector MIL Standards compliant product



● 26 pin flat cable connector (without power supply terminal) T53



26-pole connector MIL Standards compliant product



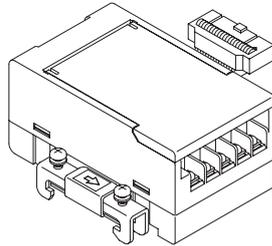
# M4GB1/2/3-T6G1/T8\* Series

Reduced wiring manifold; base piping

- Discrete serial transmission slave unit (connector type)

4GR - OPP3 - **1G**

**A** Wiring method

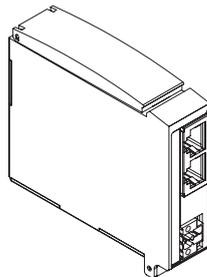


Code	Content			
<b>A Wiring method</b>				
<b>1G</b>	T6G1	CC-Link	NPN	16 points

- Discrete serial transmission slave unit (thin slot type)

4GR - OPP7 - **2G**

**A** Wiring method



Code	Content			
<b>A Wiring method</b>				
<b>1G</b>	T8G1	CC-Link	NPN	16 points
<b>2G</b>	T8G2		PNP	32 points
<b>1G-P</b>	T8GP1		NPN	16 points
<b>2G-P</b>	T8GP2		PNP	32 points
<b>1P</b>	T8P1	PROFIBUS-DP	NPN	16 points
<b>2P</b>	T8P2		PNP	32 points
<b>1P-P</b>	T8PP1		NPN	16 points
<b>2P-P</b>	T8PP2		PNP	32 points
<b>1EC</b>	T8EC1	EtherCAT	NPN	16 points
<b>2EC</b>	T8EC2		PNP	32 points
<b>1EC-P</b>	T8ECP1		NPN	16 points
<b>2EC-P</b>	T8ECP2		PNP	32 points
<b>1EN</b>	T8EN1	EtherNet/IP	NPN	16 points
<b>2EN</b>	T8EN2		PNP	32 points
<b>1EN-P</b>	T8ENP1		NPN	16 points
<b>2EN-P</b>	T8ENP2		PNP	32 points
<b>1D</b>	T8D1	DeviceNet	NPN	16 points
<b>2D</b>	T8D2		PNP	32 points
<b>1D-P</b>	T8DP1		NPN	16 points
<b>2D-P</b>	T8DP2		PNP	32 points
<b>1EB</b>	T8EB1	CC-Link IEF Basic	NPN	16 points
<b>2EB</b>	T8EB2		PNP	32 points
<b>1EB-P</b>	T8EBP1		NPN	16 points
<b>2EB-P</b>	T8EBP2		PNP	32 points
<b>1EF</b>	T8EF1	CC-Link IE Field	NPN	16 points
<b>2EF</b>	T8EF2		PNP	32 points
<b>1EF-P</b>	T8EFP1		NPN	16 points
<b>2EF-P</b>	T8EFP2		PNP	32 points
<b>1EP</b>	T8EP1	PROFINET	NPN	16 points
<b>2EP</b>	T8EP2		PNP	32 points
<b>1EP-P</b>	T8EPP1		NPN	16 points
<b>2EP-P</b>	T8EPP2		PNP	32 points
<b>1KC</b>	T8KC1	IO-Link	NPN	16 points
<b>2KC</b>	T8KC2		PNP	32 points
<b>1KC-P</b>	T8KCP1		NPN	16 points
<b>2KC-P</b>	T8KCP2		PNP	32 points

SCPD3  
SCM  
SSD2  
MDC2  
SMG  
LCM  
LCR  
LCG  
LCX  
STM  
STG  
STR2  
MRL2  
GRC  
Cylinder Switch  
MN3E  
MN4E  
4GA/B  
M4GA/B  
MN4GA/B  
F.R. (module unit)  
Clean F.R.  
Precision R  
Press gauge  
Diff. press gauge  
Electro-pneumatic R  
Speed controller  
Auxiliary valve  
Fitting/tube  
Clean air unit  
Pressure sensor  
Flow rate sensor  
Valve for air blow  
Ending