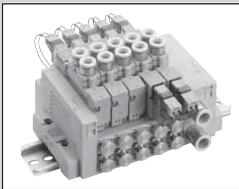


SCPD3  
SCM  
MDC2  
SMG  
SSD2  
STM  
STG  
LCR  
LCG  
LCX  
LCM  
STR2  
MRL2  
GRC  
Cylinder switch  
MN3E/MN4E  
4GA/B  
M4GA/B  
MN4GA/B  
F.R.(module unit)  
Clean F.R.  
Precision R  
Press gauge/Diff. press gauge  
Electro-pneumatic R  
Speed controller  
Auxiliary valve  
Fitting/tube  
Clean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



Individual wiring block manifold  
Body piping

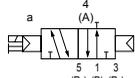
# MN4GA1/2 Series

● Applicable cylinder bore size:  $\varnothing 20$  to  $\varnothing 80$

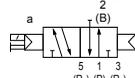


## JIS symbol

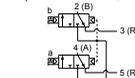
- 3-port valve
- 2-position single NC



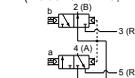
2-position single NO



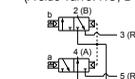
- Dual 3-port valve integrated
- (A side valve: NC, B side valve: NC)



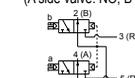
(A side valve: NC, B side valve: NO)



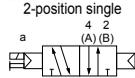
(A side valve: NO, B side valve: NC)



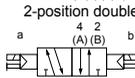
(A side valve: NO, B side valve: NO)



- 5-port valve
- 2-position single

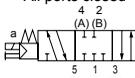


2-position double

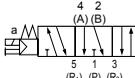


3-position

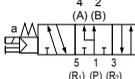
All ports closed



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				— <b>P70</b>
	Dust generation preventing	Copper-based materials prohibited	Silicon-based materials prohibited	Halogen-based materials prohibited (fluorine, chlorine, bromine)	— <b>P74</b> Custom order product

## Manifold common specifications

Descriptions	
Manifold	Block manifold
Mounting method	DIN rail mount
Supply and exhaust method	Common supply/common exhaust (With internal exhaust check valve)
Pilot exhaust method	Main valve/pilot valve common exhaust (Pilot exhaust check valve integrated)
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.  
IP65 (jet-proof) applies for DIN terminal box specifications. Note that the specified adaptive cord outer diameter and tightening torque must be used for fixing.
- \*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							
Rated voltage	V	24 VDC	12 VDC	5 VDC	3 VDC	100 VAC	200 VAC
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 A	Standard	-		-		0.93 (0.98)	1.40
	Low exoergic/energy-saving circuit built-in	-		-		-	
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.

## Individual specifications

Descriptions		MN3GA1/MN4GA1	MN3GA2/MN4GA2
Max. station number		24 stations	20 stations
Port size	Millimeter fitting/ M5, Rc thread	A/B port Barbed fitting $\varnothing$ 1.8 Push-in fitting $\varnothing$ 1.8, $\varnothing$ 4, $\varnothing$ 6 M5	Push-in fitting $\varnothing$ 4, $\varnothing$ 6, $\varnothing$ 8 Rc1/8
	Inch fitting/ M5, NPT thread	P/R port Push-in fitting $\varnothing$ 6, $\varnothing$ 8	Push-in fitting $\varnothing$ 8, $\varnothing$ 10
	Millimeter fitting, G thread	A/B port Push-in fitting $\varnothing$ 1/8 inch, $\varnothing$ 5/32 inch M5	Push-in fitting $\varnothing$ 1/4 inch, $\varnothing$ 5/16 inch 1/8NPT
		P/R port Push-in fitting $\varnothing$ 1/4 inch, $\varnothing$ 5/16 inch	Push-in fitting $\varnothing$ 5/16 inch, $\varnothing$ 3/8 inch
		A/B port -	G1/8
		P/R port -	Push-in fitting $\varnothing$ 8, $\varnothing$ 10

- For mounting of the DIN rail, refer to “Mounting orientation” on page 755.
- For the weight, refer to page 618.

Descriptions		MN3GA1/MN4GA1		MN3GA2/MN4GA2		
		ON	OFF	ON	OFF	
Response time ms	Dual 3-port valve integrated	9	12	12	29	
	2-position	Single	12	12	19	19
		Double	9	-	18	-
	3-position	ABR connection	8	15	17	30

Values including a lamp surge suppressor. The response time is the value with a supply pressure of 0.5 MPa under 20°C and with no lubrication. This varies depending 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	
MN3GA1 MN4GA1	Dual 3-port valve integrated	0.87	0.37	1.0 (0.68)	0.14 (0.22)	
	2-position		0.98	0.33	1.2 (0.71)	0.11 (0.27)
		All ports closed	0.92	0.34	1.0 —	0.16 —
	3-position	ABR connection	0.92	0.29	1.1 (0.69)	0.13 (0.22)
		PAB connection	1.1	0.35	1.1 —	0.17 —
MN3GA2 MN4GA2	Dual 3-port valve integrated	1.7	0.37	2.2 (1.6)	0.13 (0.21)	
	2-position		2.2	0.21	2.5 (1.7)	0.19 (0.10)
		All ports closed	2.0	0.25	2.3 —	0.10 —
	3-position	ABR connection	2.0	0.27	2.5 (1.7)	0.18 (0.12)
		PAB connection	2.3	0.31	2.3 —	0.16 —

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 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 616.

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

# MN4GA1/2 Series

Individual wiring block manifold; direct piping

## How to order

Manifold model No.

**MN4GA1 1 0 R - C6 - E2 H - 10 - 3 - P70**

3-port manifold model No.

**MN3GA1 1 0 R - C6 - E2 H - 10 - 3 - P70**

Discrete valve block with solenoid valve

**N4GA1 1 0 R - C6 - E2 H - 3 - P70**

Discrete 3-port valve block with solenoid valve

**N3GA1 1 0 R - C6 - E2 H - 3 - P70**

Discrete solenoid valve

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

Discrete 3-port solenoid valve

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

**A** Model No.

**B** Solenoid position

**C** Port size  
\*1

**D** Electrical connections

**E** Option

**F** Station No.

**G** Voltage

**H** Clean room specifications

### Note on selection guide

- \*1: Specify the port size of the P/R port with the supply and exhaust block model No. in the manifold specifications.
- \*2: This will be MN4GA\*80 for a mix with 4/5-port valves. In addition, this will be MN3GA\*80 for a mix with masking plates.
- \*3: 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.
- \*4: A push-in fitting mix for port 4 (A) and 2 (B) of the discrete valve cannot be selected.
- \*5: **3-position all ports closed and PAB connection are not provided with specifications (H) with the exhaust check valve. Refer to page 731 for details on the exhaust check valve.**
- \*6: If you use the device in vacuum with an external pilot (K), consult us.
- \*7: Selecting a combination of surgeless "S" and the low exoergic/energy-saving circuit "E" is not allowed.
- \*8: Applicable to surgeless specifications.
- \*9: P port is equipped with a filter as standard.
- \*10: **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. In addition, refer to pages 677 to 680 for details.**
- \*11: Supported only for the DIN terminal box.
- \*12: A (ozone compatible) and **H** clean room specification 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.

		A Model No.					
		Manifold		Discrete valve block with solenoid valve / Discrete solenoid valve			
		3-port valve	3-port valve	3-port valve		3-port valve	
		MN3GA1	MN3GA2	MN4GA1	MN4GA2	(N) 3GA1	(N) 4GA1
		(N) 4GA2	(N) 4GA2	(N) 4GA2	(N) 4GA2	(N) 4GA2	(N) 4GA2
Code	Content						
<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 PAB connection			●	●	●	●
1	2-position single normally closed *2	●	●			●	●
11	2-position single normally open *2	●	●			●	●
66	Dual 3-port valve integrated *2, 3	A side valve: Normally closed	●			●	●
67		B side valve: Normally closed	●			●	●
67	Dual 3-port valve integrated *2, 3	A side valve: Normally open	●			●	●
67		B side valve: Normally open	●			●	●
76	Dual 3-port valve integrated *2, 3	A side valve: Normally open	●			●	●
76		B side valve: Normally open	●			●	●
77	Dual 3-port valve integrated *2, 3	A side valve: Normally open	●			●	●
77		B side valve: Normally open	●			●	●
8	Mixed manifold (In case of multiple solenoid positions)	●	●	●	●	●	●
<b>C Port size (A/B port)</b>							
Type	Millimeter fitting/Rc thread						
CF	ø1.8 barbed fitting (applicable tube UP-9102-**)	●	●	●	●	●	●
C18	ø1.8 push-in fitting (applicable tube UP-9402-**)	●	●	●	●	●	●
C4	ø 4 push-in fitting	●	●	●	●	●	●
C6	ø 6 push-in fitting	●	●	●	●	●	●
C8	ø 8 push-in fitting	●	●	●	●	●	●
CX	Push-in fitting mix *4	●	●	●	●	●	●
M5	M5	●	●	●	●	●	●
06	Rc1/8	●	●	●	●	●	●
<b>D Electrical connections</b>							
Type	Inch fitting/inch thread						
C3N	ø 1/8 inch push-in fitting	●	●	●	●	●	●
C4N	ø 5/32 inch push-in fitting	●	●	●	●	●	●
C6N	ø 1/4 inch push-in fitting	●	●	●	●	●	●
C8N	ø 5/16 inch push-in fitting	●	●	●	●	●	●
CXN	Push-in fitting mix *4	●	●	●	●	●	●
06N	1/8NPT	●	●	●	●	●	●
<b>E Option</b>							
Type	G thread						
06G	G1/8	●	●	●	●	●	●
<b>D Electrical connections</b>							
Refer to the following page for electrical connections							
<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 proof	●	●	●	●	●	●
S	Surgeless *7	●	●	●	●	●	●
E	Low exoergic/energy-saving circuit *7	●	●	●	●	●	●
F	Built-in A/B port filter *9	●	●	●	●	●	●
Z1	Air supply spacer *10	●	●	●	●	●	●
Z3	Exhaust spacer *10	●	●	●	●	●	●
<b>F Station No.</b>							
1	1 station						
to	to	●	●	●	●	●	●
24	24 Stations (Max. station number of MN3GA2/MN4GA2 is 20.)	●	●	●	●	●	●
<b>G Voltage</b>							
1	100 VAC (with rectifier circuit)	●	●	●	●	●	●
2	200 VAC (with rectifier circuit) *12	●	●	●	●	●	●
3	24 VDC	●	●	●	●	●	●
4	12 VDC	●	●	●	●	●	●
7	3 VDC	○	○	○	○	○	○
8	5 VDC	○	○	○	○	○	○
<b>H Clean room specifications (*12, 13, 14)</b>							
Structure		Material restriction					
P70	Exhaust treatment	—	●	●	●	●	●
P74	Exhaust treatment	Copper-based/silicon-based/halogen-based materials (fluorine, chlorine, bromine) are prohibited.	●	●	●	●	●

is not available.

○ Custom order products. Contact CKD for details.

(Table of electrical connections)

		A Model No.							
		Manifold			Discrete valve block with solenoid valve/ Discrete solenoid valve				
		3-port valve	5-port valve						
		MN3GA1	MN3GA2	MN4GA1	MN4GA2	(N)3GA1	(N)3GA2	(N)4GA1	(N)4GA2
<b>D Electrical connections</b>									
<b>Blank</b>	Grommet lead wire (300 mm)	*13	●	●	●	●	●	●	●
<b>B</b>	DIN terminal box (Pg7) with surge suppressor/lamp	*14	●	●	●	●	●	●	●
<b>BN</b>	DIN terminal box (Pg7) (no terminal box) with surge suppressor	*14	●	●	●	●	●	●	●
<b>E connector (up/lateral common)</b>									
<b>E0</b>	Lead wire (300 mm)	*15	●	●	●	●	●	●	●
<b>E00</b>	Lead wire (500 mm)	*15	●	●	●	●	●	●	●
<b>E01</b>	Lead wire (1000 mm)	*15	●	●	●	●	●	●	●
<b>E02</b>	Lead wire (2000 mm)	*15	●	●	●	●	●	●	●
<b>E03</b>	Lead wire (3000 mm)	*15	●	●	●	●	●	●	●
<b>E0N</b>	Without lead wire (without socket)	*15	●	●	●	●	●	●	●
<b>E1</b>	Without lead wire (socket/terminal attached)	*15	●	●	●	●	●	●	●
<b>E2</b>	Lead wire (300 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E20</b>	Lead wire (500 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E21</b>	Lead wire (1000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E22</b>	Lead wire (2000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E23</b>	Lead wire (3000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E2N</b>	Without lead wire (without socket) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E3</b>	Without lead wire (socket/terminal attached) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>EJ connector (socket with cover, up/lateral common)</b>									
<b>E01J</b>	Lead wire (1000 mm)	*15	●	●	●	●	●	●	●
<b>E02J</b>	Lead wire (2000 mm)	*15	●	●	●	●	●	●	●
<b>E03J</b>	Lead wire (3000 mm)	*15	●	●	●	●	●	●	●
<b>E21J</b>	Lead wire (1000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E22J</b>	Lead wire (2000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E23J</b>	Lead wire (3000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●

\*13: The grommet lead wire specifications are only applicable to DC voltages.  
 \*14: AC voltages and 12/24 VDC are supported. The lamp is incorporated in the terminal box.  
 \*15: AC voltage is provided with a rectifier circuit.

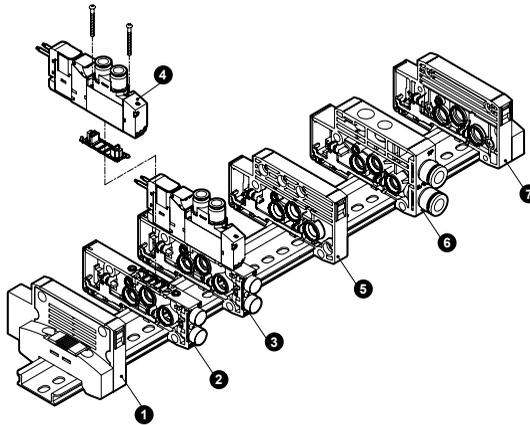
Electrical connections	
Discrete valve/individual wiring manifold	
<b>Blank</b>	<b>E1 E3</b> E connector with socket/terminal
Grommet lead wire	
● Lead wire length 300 mm	
<b>E0 E2</b> E connector	<b>B</b> DIN terminal box
● Lead wire length 300 mm 500 mm 1 m 2 m 3 m	
<b>E0N E2N</b> E connector without socket	<b>BN</b> DIN terminal box No terminal box
<b>E0J E2J</b> EJ connector	
● Lead wire length 1 m 2 m 3 m	

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

# MN4GA1/2 Series

Individual wiring block manifold; direct piping

## Manifold components explanation and parts list



List of main components (refer to pages 666 to 682 for details)

No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
1	End block L	N4G1R-EL-P70/P74	5	Partition block	N4G1R-S-P70/P74
2	Discrete valve block	N4GA1R-V1-P70/P74	6	Supply and exhaust block	N4G1R-Q-8-P70/P74
3	Discrete valve block with solenoid valve	N4GA110R-C6-H-3-P70/P74	7	End block R	N4G1R-ER-P70/P74
4	Solenoid valve body	4GA119R-C6-H-3-P70/P74			

### A type individual wiring weight

4GA1

Block	Weight	Block	Weight		
Valve block with solenoid valve	N3GA110R-C6-3	70	Valve block with masking plate	N4GA1R-MP	34
	N3GA110R-C6-3	70		N4G1R-Q-8	58
	N4GA110R-C6-3	70	N4G1R-QK-8	60	
	N4GA120R-C6-3	87	N4G1R-E*	60	
	N4GA1 $\frac{1}{2}$ 0R-C6-3	91	N4G1R-EX*	60	
N3GA1660R-C6-3	87	Partition block	N4G1R-S	45	

4GA2

Block	Weight	Block	Weight		
Valve block with solenoid valve	N3GA210R-C8-3	129	Valve block with masking plate	N4GA2R-MP	66
	N3GA2110R-C8-3	129		N4G2R-Q-10	83
	N4GA210R-C8-3	129	N4G2R-QK-10	85	
	N4GA220R-C8-3	147	N4G2R-E*	84	
	N4GA2 $\frac{1}{2}$ 0R-C8-3	159	N4G2R-EX*	85	
N4GA2660R-C8-3	147	Partition block	N4G2R-S	60	

### Parts list

Application	Parts name	Model No.	Application	Parts name	Model No.
Valve 4G1	Cartridge fitting $\varnothing$ 1.8 barbed	4G1R-JOINT-CF-P70	Valve	Coil assembly	4GR-(*)-(*)-COIL-(*)-P70
	Cartridge fitting $\varnothing$ 1.8 straight	4G1R-JOINT-C18-P70			*1: Electrical connections (blank, B, E0, ...); *3: Voltage (1, 2, 3, 4)
	Cartridge fitting $\varnothing$ 4 straight	4G1R-JOINT-C4-P70			*2: Ozone/cutting oil compatible (blank, A)
	Cartridge fitting $\varnothing$ 6 straight	4G1R-JOINT-C6-P70		Surgeless (S)	
	Cartridge fitting $\varnothing$ 1/8 inch straight	4G1R-JOINT-C3N-P70		Low exoergic/energy-saving circuit (E)	
	Cartridge fitting $\varnothing$ 5/32 inch straight	4G1R-JOINT-C4N-P70		E connector socket assembly	4GR-SOCKET-ASSY-(*)-(*)-P70
Plug cartridge	4G1R-JOINT-CPG-P70	*1: Electrical connections (E0, E00, ...); *3: Voltage (1, 3, 4)			
Valve 4G2	Cartridge fitting $\varnothing$ 4 straight	4G2R-JOINT-C4-P70	Valve 4G2	EJ connector socket assembly	4GR-SOCKET-ASSY-(*)-P70
	Cartridge fitting $\varnothing$ 6 straight	4G2R-JOINT-C6-P70			*1: Electrical connections (E01J, E02J, ...)
	Cartridge fitting $\varnothing$ 8 straight	4G2R-JOINT-C8-P70		DIN terminal box assembly	4GR-TERMINAL-BOX-(*)-P70
	Cartridge fitting $\varnothing$ 1/4 inch straight	4G2R-JOINT-C6N-P70			*3: Voltage (1, 2, 3, 4)
	Cartridge fitting $\varnothing$ 5/16 inch straight	4G2R-JOINT-C8N-P70			
	Plug cartridge	4G2R-JOINT-CPG-P70			

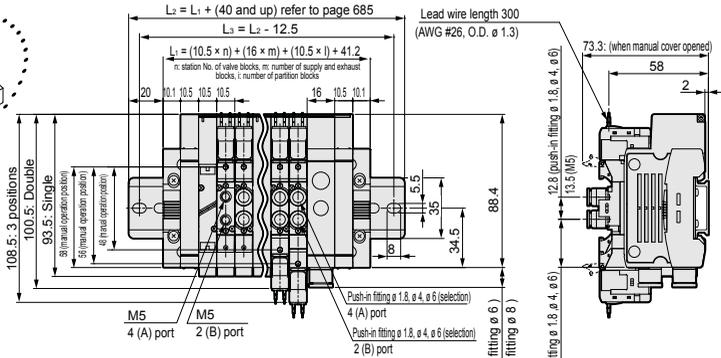
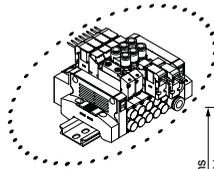
### Dimensions



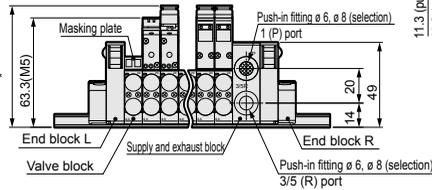
### MN4GA1-P7\*

- Grommet lead wire (blank)

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

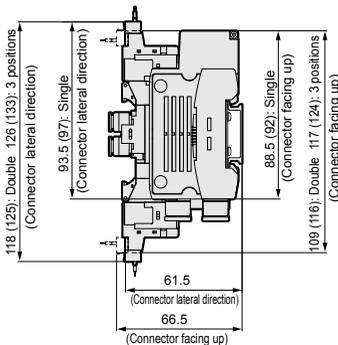
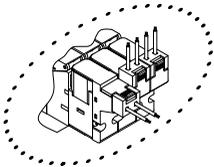


Push-in fitting bore size	Dimensions
$\phi$ 1.8	65.1
$\phi$ 4	69.1
$\phi$ 6	70.3
$\phi$ 1/8 inch	69.6
$\phi$ 5/32 inch	69.1

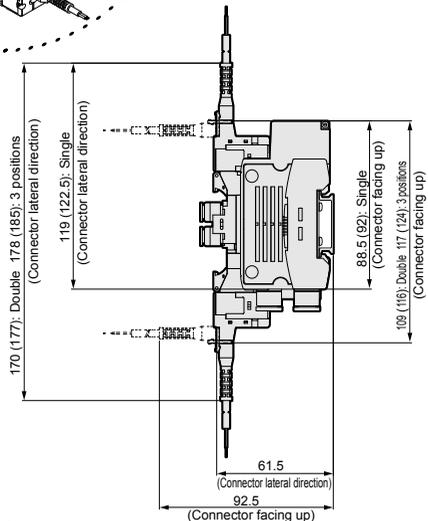
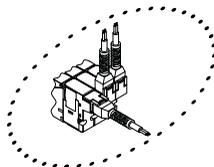


- $\phi$  1.8 barbed fitting (CF)

- E connector (E)



- EJ connector (E\*J)



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

\* Refer to page 645 for dimensions of the supply and exhaust block push-in fitting.

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

# MN4GA2 Series

Individual wiring block manifold; direct piping

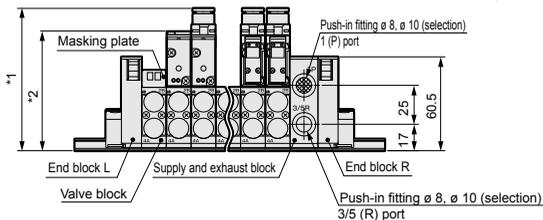
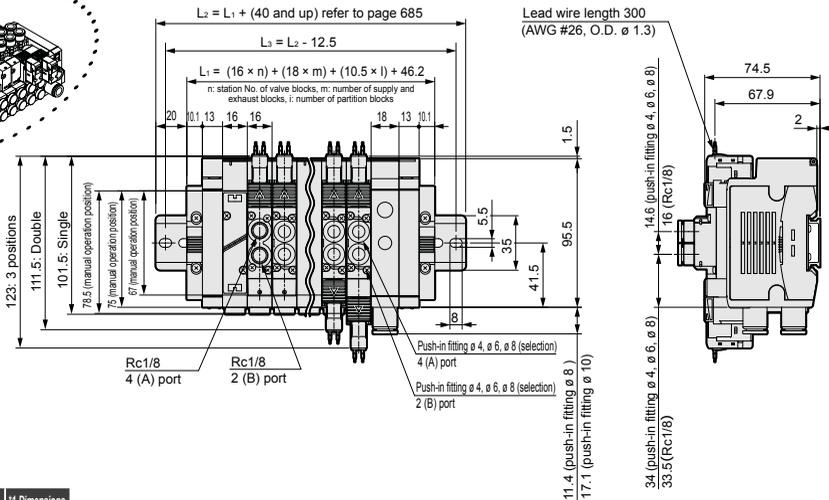
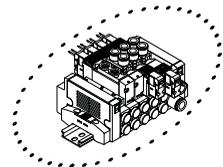
## Dimensions



### MN4GA2-P7\*

● Grommet lead wire (blank)

\* For 2-position single 3-port valve, 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.

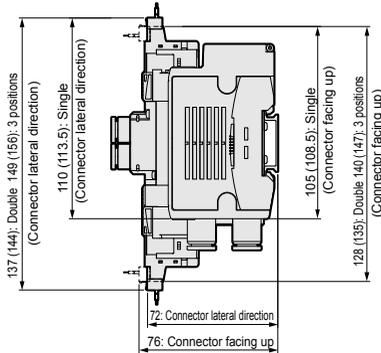
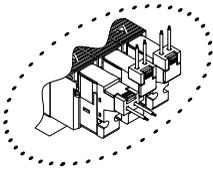


Push-in fitting bore size	*1 Dimensions
$\phi$ 4	91.7
$\phi$ 6	
$\phi$ 8	
$\phi$ 1/4 inch	92.6
$\phi$ 5/16 inch	91.9
Female thread size	*2 Dimensions
Rc1/8	76.5
1/8NPT	77.8
G1/8	

- 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)
- G1/8
- 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

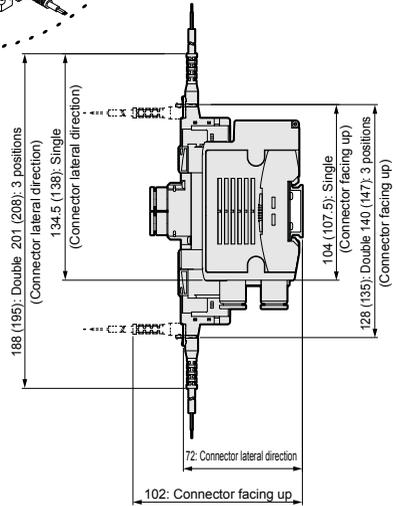
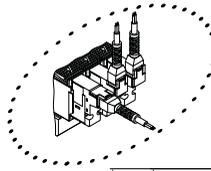
### Dimensions

● E connector (E)

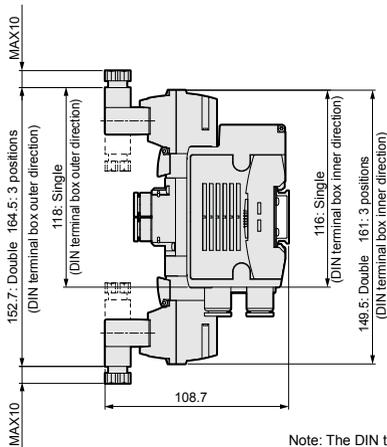
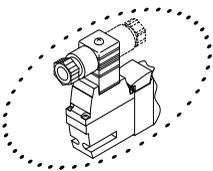


Note: Values in ( ) apply for 100 VAC.

● EJ connector (E\*\*J)



● DIN terminal box (B)

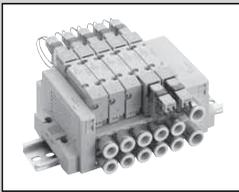


Note: The DIN terminal box assembly is shipped facing inward.

\* Refer to page 645 for dimensions of the supply and exhaust block push-in fitting.

SCPD3
SCM
MDC2
SMG
SSD2
STM
STG
LCR
LCG
LCX
LCM
STR2
MRL2
GRC
Cylinder switch
<b>MN3E</b>
<b>MN4E</b>
4GA/B
M4GA/B
<b>MN4GA/B</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

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  
Pressure differential pressure 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 block manifold  
Base piping

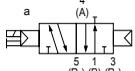
# MN4GB1/2 Series

● Applicable cylinder bore size:  $\varnothing 20$  to  $\varnothing 80$

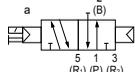


## JIS symbol

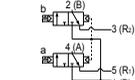
- 3-port valve  
2-position single NC



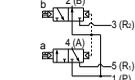
- 2-position single NO



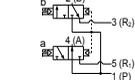
- Dual 3-port valve integrated  
(A side valve: NC, B side valve: NC)



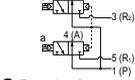
- (A side valve: NC, B side valve: NO)



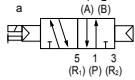
- (A side valve: NO, B side valve: NC)



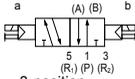
- (A side valve: NO, B side valve: NO)



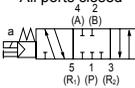
- 5-port valve  
2-position single



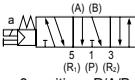
- 2-position double



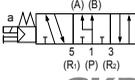
- 3-position  
All ports closed



- 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				— <b>P70</b>
	Dust generation preventing	Copper-based materials prohibited	Silicon-based materials prohibited	Halogen-based materials prohibited (fluorine, chlorine, bromine)	— <b>P74</b> Custom order product

## Manifold common specifications

Descriptions	
Manifold	Block manifold
Mounting method	DIN rail mount
Supply and exhaust method	Common supply/common exhaust (With internal exhaust check valve)
Pilot exhaust method	Main valve/pilot valve common exhaust (Pilot exhaust check valve integrated)
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

- \*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. IP65 (jet-proof) applies for DIN terminal box specifications. Note that the specified adaptive cord outer diameter and tightening torque must be used for fixing.
- \*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								
Rated voltage	V	24 VDC	12 VDC	5 VDC	3 VDC	100 VAC	200 VAC	
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 (*4)	0.005	0.010	—	—	—	—	
Power consumption W	Standard	0.35 (0.40)		0.35 (0.40)		—		
	Low exoergic/energy-saving circuit built-in (*4)	0.1		—		—		
Apparent power VA (*4)	Standard	—	—	—	—	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.

## Individual specifications

Descriptions			MN3GB1/MN4GB1	MN3GB2/MN4GB2
Max. station number			24 stations	20 stations
Port size	Millimeter fitting	A/B port	Barbed fitting $\phi$ 1.8 Push-in fitting $\phi$ 1.8, $\phi$ 4, $\phi$ 6	Push-in fitting $\phi$ 4, $\phi$ 6, $\phi$ 8
		P/R port	Push-in fitting $\phi$ 6, $\phi$ 8	Push-in fitting $\phi$ 8, $\phi$ 10
	Inch fitting	A/B port	Push-in fittings $\phi$ 1/8 inch, $\phi$ 5/32 inch	Push-in fittings $\phi$ 1/4 inch, $\phi$ 5/16 inch 1/8NPT
		P/R port	Push-in fittings $\phi$ 1/4 inch, $\phi$ 5/16 inch	Push-in fittings $\phi$ 5/16 inch, $\phi$ 3/8 inch

- For mounting of the DIN rail, refer to "Mounting posture" on page 734.
- For the weight, refer to page 626.

Descriptions			MN3GB1/MN4GB1		MN3GB2/MN4GB2	
			ON	OFF	ON	OFF
Response time ms	Dual 3-port valve integrated		9	12	12	29
		2-position	Single	12	12	19
		Double	9	—	18	—
	3-position	ABR connection	8	15	17	30

Values including a lamp surge suppressor. The response time is the value with a supply pressure of 0.5 MPa under 20°C and with no lubrication. It depends 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
MN3GB1 MN4GB1	Dual 3-port valve integrated		0.86	0.35	1.0 (0.66)	0.15 (0.25)
	2-position		1.0	0.30	1.1 (0.72)	0.11 (0.26)
		All ports closed	0.96	0.32	1.0 —	0.14 —
	3-position	ABR connection	0.96	0.29	1.2 (0.71)	0.11 (0.30)
		PAB connection	1.1	0.31	1.0 —	0.15 —
MN3GB2 MN4GB2	Dual 3-port valve integrated		1.7	0.42	2.2 (1.6)	0.15 (0.19)
	2-position		2.4	0.35	2.5 (1.7)	0.19 (0.19)
		All ports closed	2.2	0.38	2.3 —	0.17 —
	3-position	ABR connection	2.2	0.38	2.5 (1.7)	0.18 (0.20)
		PAB connection	2.3	0.29	2.3 —	0.15 —

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 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 625.

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

# MN4GB1/2 Series

Individual wiring manifold; base piping

## How to order

Manifold model No.

MN4GB1 1 0 R - C6 - E2 H -10- 3 - P70

3-port manifold model No.

MN3GB1 66 0 R - C6 - E2 H -10- 3 - P70

Discrete valve block with solenoid valve

N4GB1 1 0 R - C6 - E2 H - 3 - P70

Discrete 3-port valve block with solenoid valve

N3GB1 66 0 R - C6 - E2 H - 3 - P70

Discrete solenoid valve

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

Discrete 3-port solenoid valve

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

A Model No.

B Solenoid position

D Electrical connections

F Station No.

C Port size

E Option

G Voltage

\*1

\*2

\*3

H Clean room specifications

### A Model No.

Manifold	5-port valve	Discrete valve block with solenoid valve/ Discrete solenoid valve
MN3GB1		
MN4GB1		
MN4GB2		
(N) 3GB1		
(N) 4GB1		
(N) 4GB2		

Code	Content	MN3GB1	MN4GB1	MN4GB2	(N) 3GB1	(N) 4GB1	(N) 4GB2
<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 PAB connection		●	●	●	●	●
66	Dual 3-port valve integrated *4, 5		●	●	●	●	●
67		A side valve: Normally closed		●	●	●	●
76		B side valve: Normally closed		●	●	●	●
77		B side valve: Normally open		●	●	●	●
8	Mixed manifold (In case of multiple solenoid positions)	●	●	●	●	●	●

C Port size (ports A/B)		MN3GB1	MN4GB1	MN4GB2	(N) 3GB1	(N) 4GB1	(N) 4GB2
Type	Millimeter fitting/Rc thread						
CF	ø 1.8 barbed fitting (applicable tube UP-9102-**)	●	●	●	●	●	●
C18	ø 1.8 push-in fitting (applicable tube UP-9402-**)	●	●	●	●	●	●
C4	ø 4 push-in fitting	●	●	●	●	●	●
C6	ø 6 push-in fitting	●	●	●	●	●	●
C8	ø 8 push-in fitting	●	●	●	●	●	●
CL18	ø 1.8 radial facing-up push-in fitting (applicable tube UP-9102-**) *6	●	●	●	●	●	●
CL4	ø 4 radial facing-up push-in fitting	●	●	●	●	●	●
CL6	ø 6 radial facing-up push-in fitting *8	●	●	●	●	●	●
CL8	ø 8 radial facing-up push-in fitting *8	●	●	●	●	●	●
CD18	ø 1.8 radial facing-down push-in fitting (applicable tube UP-9402-**) *7	●	●	●	●	●	●
CD4	ø 4 radial facing-down push-in fitting	●	●	●	●	●	●
CD6	ø 6 radial facing-down push-in fitting	●	●	●	●	●	●
CD8	ø 8 radial facing-down push-in fitting	●	●	●	●	●	●
CX	Push-in fitting mix	●	●	●	●	●	●

Single with pressure specification		A port	B port	MN3GB1	MN4GB1	MN4GB2	(N) 3GB1	(N) 4GB1	(N) 4GB2
CFNC	ø 1.8 barbed fitting (applicable tube UP-9102-**) *7			●	●	●	●	●	●
C18NC	ø 1.8 push-in fitting (applicable tube UP-9402-**) *7			●	●	●	●	●	●
C4NC	ø 4 push-in fitting	Plug		●	●	●	●	●	●
C6NC	ø 6 push-in fitting			●	●	●	●	●	●
C8NC	ø 8 push-in fitting			●	●	●	●	●	●
CFNO	ø 1.8 barbed fitting (applicable tube UP-9102-**) *7			●	●	●	●	●	●
C18NO	ø 1.8 push-in fitting (applicable tube UP-9402-**) *7	Plug		●	●	●	●	●	●
C4NO	ø 4 push-in fitting			●	●	●	●	●	●
C6NO	ø 6 push-in fitting			●	●	●	●	●	●
C8NO	ø 8 push-in fitting			●	●	●	●	●	●
CL18NC	ø 1.8 radial facing-up push-in fitting (applicable tube UP-9402-**) *7			●	●	●	●	●	●
CL4NC	ø 4 radial facing-up push-in fitting	Plug		●	●	●	●	●	●
CL6NC	ø 6 radial facing-up push-in fitting			●	●	●	●	●	●
CL8NC	ø 8 radial facing-up push-in fitting			●	●	●	●	●	●
CL18NO	ø 1.8 radial facing-up push-in fitting (applicable tube UP-9402-**) *7	Plug		●	●	●	●	●	●
CL4NO	ø 4 radial facing-up push-in fitting			●	●	●	●	●	●
CL6NO	ø 6 radial facing-up push-in fitting			●	●	●	●	●	●
CL8NO	ø 8 radial facing-up push-in fitting			●	●	●	●	●	●
CD18NC	ø 1.8 radial facing-down push-in fitting (applicable tube UP-9402-**) *7			●	●	●	●	●	●
CD4NC	ø 4 radial facing-down push-in fitting	Plug		●	●	●	●	●	●
CD6NC	ø 6 radial facing-down push-in fitting			●	●	●	●	●	●
CD8NC	ø 8 radial facing-down push-in fitting			●	●	●	●	●	●
CD18NO	ø 1.8 radial facing-down push-in fitting (applicable tube UP-9402-**) *7	Plug		●	●	●	●	●	●
CD4NO	ø 4 radial facing-down push-in fitting			●	●	●	●	●	●
CD6NO	ø 6 radial facing-down push-in fitting			●	●	●	●	●	●
CD8NO	ø 8 radial facing-down push-in fitting			●	●	●	●	●	●

Single with pressure specification		A port	B port	MN3GB1	MN4GB1	MN4GB2	(N) 3GB1	(N) 4GB1	(N) 4GB2
<b>Type</b>		<b>Inch fitting/inch thread</b>							
C3N	ø 1/8 inch push-in fitting			●	●	●	●	●	●
C4N	ø 5/32 inch push-in fitting			●	●	●	●	●	●
C6N	ø 1/4 inch push-in fitting			●	●	●	●	●	●
C8N	ø 5/16 inch push-in fitting			●	●	●	●	●	●
CL3N	ø 1/8 inch radial facing-up push-in fitting *8	○	○	○	○	○	○	○	○
CL4N	ø 5/32 inch radial facing-up push-in fitting *8	○	○	○	○	○	○	○	○
CL6N	ø 1/4 inch radial facing-up push-in fitting *8	○	○	○	○	○	○	○	○
CL8N	ø 5/16 inch radial facing-up push-in fitting *8	○	○	○	○	○	○	○	○
CXN	Push-in fitting mix	○	○	○	○	○	○	○	○
Single with pressure specification		A port	B port						
C3NCN	ø 1/8 inch push-in fitting			●	●	●	●	●	●
C4NCN	ø 5/32 inch push-in fitting			●	●	●	●	●	●
C6NCN	ø 1/4 inch push-in fitting			●	●	●	●	●	●
C8NCN	ø 5/16 inch push-in fitting			●	●	●	●	●	●
C3NON	ø 1/8 inch push-in fitting			●	●	●	●	●	●
C4NON	ø 5/32 inch push-in fitting			●	●	●	●	●	●
C6NON	ø 1/4 inch push-in fitting			●	●	●	●	●	●
C8NON	ø 5/16 inch push-in fitting			●	●	●	●	●	●
CL3NCN	ø 1/8 inch radial facing-up push-in fitting	○	○	○	○	○	○	○	○
CL4NCN	ø 5/32 inch radial facing-up push-in fitting	○	○	○	○	○	○	○	○
CL6NCN	ø 1/4 inch radial facing-up push-in fitting	○	○	○	○	○	○	○	○
CL8NCN	ø 5/16 inch radial facing-up push-in fitting	○	○	○	○	○	○	○	○
CL3NON	ø 1/8 inch radial facing-up push-in fitting	○	○	○	○	○	○	○	○
CL4NON	ø 5/32 inch radial facing-up push-in fitting	○	○	○	○	○	○	○	○
CL6NON	ø 1/4 inch radial facing-up push-in fitting	○	○	○	○	○	○	○	○
CL8NON	ø 5/16 inch radial facing-up push-in fitting	○	○	○	○	○	○	○	○
00	Discrete valve for mounting base			●	●	●	●	●	●

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

[List of Option, Station No., Voltage, Electrical connections]

		A Model No.							
		Manifold				Discrete valve block with solenoid valve / Discrete solenoid valve			
		Dual 3-port valve integrated		6-port valve					
		MN3GB1	MN3GB2	MN4GB1	MN4GB2	(N) 3GB1	(N) 3GB2	(N) 4GB1	(N) 4GB2
<b>D Electrical connections</b>									
<b>Blank</b>	Grommet lead wire (300 mm)	*17	●	●	●	●	●	●	●
<b>B</b>	DIN terminal box (Pg7) with surge suppressor/lamp	*18	●	●	●	●	●	●	●
<b>BN</b>	DIN terminal box (Pg7) (no terminal box) with surge suppressor/lamp	*18	●	●	●	●	●	●	●
<b>E connector (up/lateral common)</b>									
<b>E0</b>	Lead wire (300 mm)	*19	●	●	●	●	●	●	●
<b>E00</b>	Lead wire (500 mm)	*19	●	●	●	●	●	●	●
<b>E01</b>	Lead wire (1000 mm)	*19	●	●	●	●	●	●	●
<b>E02</b>	Lead wire (2000 mm)	*19	●	●	●	●	●	●	●
<b>E03</b>	Lead wire (3000 mm)	*19	●	●	●	●	●	●	●
<b>E0N</b>	Without lead wire (without socket)	*19	●	●	●	●	●	●	●
<b>E1</b>	Without lead wire (with socket/terminal)	*19	●	●	●	●	●	●	●
<b>E2</b>	Lead wire (300 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E20</b>	Lead wire (500 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E21</b>	Lead wire (1000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E22</b>	Lead wire (2000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E23</b>	Lead wire (3000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E2N</b>	Without lead wire (without socket) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E3</b>	Without lead wire (with socket/terminal) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>EJ connector (socket with cover, up/lateral common)</b>									
<b>E01J</b>	Lead wire (1000 mm)	*19	●	●	●	●	●	●	●
<b>E02J</b>	Lead wire (2000 mm)	*19	●	●	●	●	●	●	●
<b>E03J</b>	Lead wire (3000 mm)	*19	●	●	●	●	●	●	●
<b>E21J</b>	Lead wire (1000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E22J</b>	Lead wire (2000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E23J</b>	Lead wire (3000 mm) with surge suppressor/lamp		●	●	●	●	●	●	●
<b>E Option</b>									
<b>Blank</b>	Non-locking and locking model shared manual override		●	●	●	●	●	●	●
<b>M</b>	Non-locking manual override		●	●	●	●	●	●	●
<b>H</b>	With exhaust check valve	*9	●	●	●	●	●	●	●
<b>K</b>	External pilot	*10	●	●	●	●	●	●	●
<b>A</b>	Ozone/cutting oil proof		●	●	●	●	●	●	●
<b>S</b>	Surgeless	*11	●	●	●	●	●	●	●
<b>E</b>	Low exoergic/energy-saving circuit	*11, 12	●	●	●	●	●	●	●
<b>L</b>	With piping adaptor		●	●	●	●	●	●	●
<b>F</b>	Built-in A/B port filter	*13	●	●	●	●	●	●	●
<b>Z1</b>	Air supply spacer	*14	●	●	●	●	●	●	●
<b>Z3</b>	Exhaust spacer	*14	●	●	●	●	●	●	●
<b>F Station No.</b>									
<b>1</b>	1 station		●	●	●	●	●	●	●
<b>to</b>	to		●	●	●	●	●	●	●
<b>24</b>	24 stations (Max. station number of MN4GB2 is 20.)		●	●	●	●	●	●	●
<b>G Voltage</b>									
<b>1</b>	100 VAC (with rectifier circuit)		●	●	●	●	●	●	●
<b>2</b>	200 VAC (with rectifier circuit)	*16	●	●	●	●	●	●	●
<b>3</b>	24 VDC		●	●	●	●	●	●	●
<b>4</b>	12 VDC		●	●	●	●	●	●	●
<b>7</b>	3 VDC		○	○	○	○	○	○	○
<b>8</b>	5 VDC		○	○	○	○	○	○	○
<b>H Clean room specifications (*19, 20, 21)</b>									
	Structure		Material restriction						
<b>P70</b>	Exhaust treatment	-	●	●	●	●	●	●	●
<b>P74</b>	Exhaust treatment	Copper-based/silicon-based/halogen-based materials (fluorine, chlorine, bromine) are prohibited.	●	●	●	●	●	●	●

● is not available.

○ Custom order products. Contact CKD for details.

\*9: Settings of the 3-position all ports closed and PAB connection are not provided with specifications (H) with the exhaust check valve. Refer to page 731 for details on the exhaust check valve.

\*10: If you use the device in vacuum with an external pilot "K", consult us.

\*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. It is not allowed to select in combination with the radial facing-up push-in fitting except for single solenoid. In addition, refer to pages 677 to 680 for details.

\*15: Supported only for DIN terminal box.

\*16: The grommet lead wire specifications are only applicable to DC voltages.

\*17: AC voltages and 12/24 VDC are supported. The lamp is incorporated in the terminal box.

\*18: AC voltage is provided with a rectifier circuit.

\*19: A (ozone compatible) and 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.

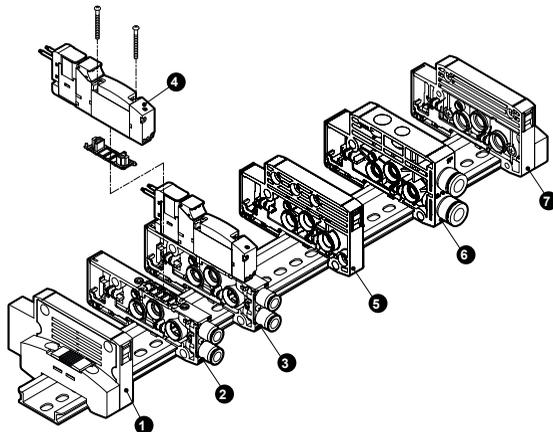
\*21: P74 Series is a custom order product.

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)
Clear 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

# MN4GB1/2 Series

Individual wiring manifold; base piping

## Manifold components explanation and parts list



List of main components (refer to pages 666 to 682 for details)

No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
1	End block L	N4G1R-EL-P70/P74	5	Partition block	N4G1R-S-P70/P74
2	Discrete valve block	N4GB1R-V1-C6-P70/P74	6	Supply and exhaust block	N4G1R-Q-8-P70/P74
3	Discrete valve block with solenoid valve	N4GB110R-C6-H-3-P70/P74	7	End block R	N4G1R-ER-P70/P74
4	Solenoid valve body	4GB119R-C0-H-3-P70/P74			

### B type individual wiring weight

#### 4GB1

(g)

Block	Weight	Block	Weight
Valve block with solenoid valve		Supply and exhaust block	
N4GB110R-C6	67	N4G1R-Q-8	58
N4GB120R-C6	84	N4G1R-QK-8	60
N4GB1 $\frac{3}{4}$ 0R-C6	85	End block	
N3GB1660R-C6-3	84	N4G1R-E*	60
Valve block with masking plate		Partition block	
N4GB1R-MP-C6	37	N4G1R-S	45

#### 4GB2

(g)

Block	Weight	Block	Weight
Valve block with solenoid valve		Supply and exhaust block	
N4GB210R-C8	128	N4G2R-Q-10	83
N4GB220R-C8	145	N4G2R-QK-10	85
N4GB2 $\frac{3}{4}$ 0R-C8	156	End block	
N4GB2660R-C8-3	145	N4G2R-E*	84
Valve block with masking plate		Partition block	
N4GB2R-MP-C8	69	N4G2R-S	60

### Parts list

Application	Parts name	Model No.	Application	Parts name	Model No.			
Speed controller	ø 1.8 barbed	4G1R-JOINT-CF-P70	Valve 4G2	ø 1/4 inch elbow *1	4G2R-JOINT-CL6N-P70			
	ø 1.8 straight	4G1R-JOINT-C18-P70		ø 5/16 inch elbow *1	4G2R-JOINT-CL8N-P70			
	ø 4 straight	4G1R-JOINT-C4-P70		Plug cartridge	4G2R-JOINT-CPG-P70			
	Auxiliary valve	ø 6 straight	4G1R-JOINT-C6-P70	Valve	Coil assembly	4GR-(*)1-(*)2-COIL-(*)3-P70		
		ø 1.8 elbow	4G1R-JOINT-CL18,CLL18-P70			*1: Electrical connections (blank, B, E0,...)		
		ø 4 elbow	4G1R-JOINT-CL4,CLL4-P70			*2: Compatible with ozone/cutting oil (blank, A) Surgeless (S)		
		ø 6 elbow	4G1R-JOINT-CL6,CLL6-P70			Low exoergic/energy-saving circuit (E)		
		ø 1/8 inch straight	4G1R-JOINT-C3N-P70			*3: Voltage (1, 2, 3, 4)		
		ø 5/32 inch straight	4G1R-JOINT-C4N-P70			E connector socket assembly	4GR-SOCKET-ASSY-(*)1-(*)3-P70	
		ø 1/8 inch elbow *1	4G1R-JOINT-CL3N-P70				*1: Electrical connections (E0, E00,...)	
ø 5/32 inch elbow *1		4G1R-JOINT-CL4N-P70	*3: Voltage (1, 3, 4)					
Pressure sensor		Plug cartridge	4G1R-JOINT-CPG-P70			Valve 4G2	DIN terminal box assembly	4GR-SOCKET-ASSY-(*)1-P70
		ø 4 straight	4G2R-JOINT-C4-P70					*1: Electrical connections (E01J, E02J,...)
	ø 6 straight	4G2R-JOINT-C6-P70	4GR-TERMINAL-BOX-(*)3-P70					
	ø 8 straight	4G2R-JOINT-C8-P70		*3: Voltage (1, 2, 3, 4)				
	ø 6 elbow	4G2R-JOINT-CL6,CLL6-P70						
	ø 8 elbow	4G2R-JOINT-CL8,CLL8-P70						
	ø 1/4 inch straight	4G2R-JOINT-C6N-P70						
	ø 5/16 inch straight	4G2R-JOINT-C8N-P70						

\*1: This is a custom order product.

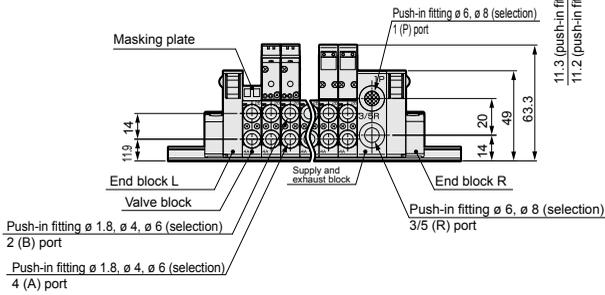
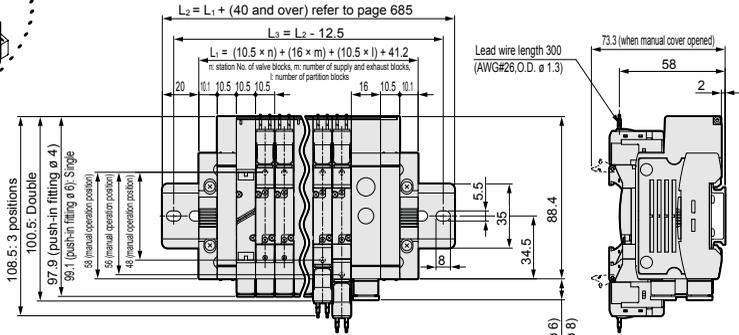
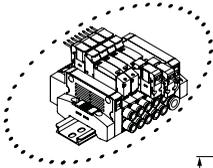
### Dimensions



### MN4GB1-P7\*

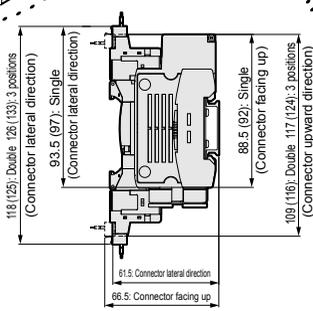
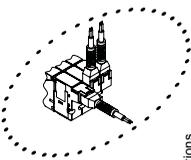
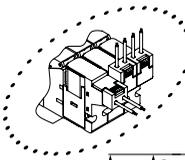
● Grommet lead wire (black)

\* For 2-position single 3-port valve, 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.

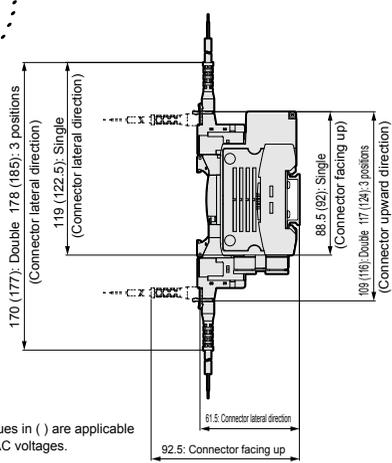


● E connector (E)

● EJ connector (E\*\*J)



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



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

\* Refer to page 660 for dimensions of the valve block push-in fitting and supply and exhaust block push-in fitting.

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

# MN4GB2 Series

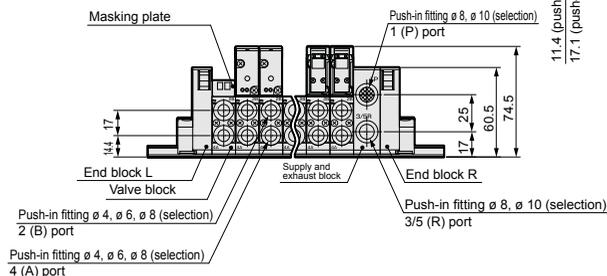
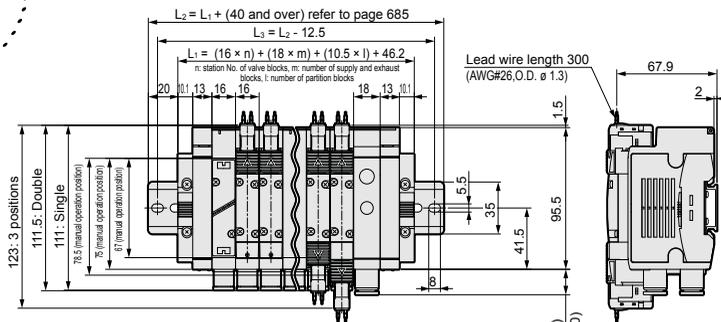
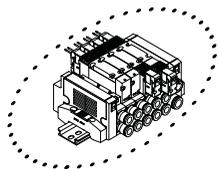
Individual wiring manifold; base piping

Dimensions 

MN4GB2-P7\*

● Grommet lead wire (blank)

\* For 2-position single 3-port valve, 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.

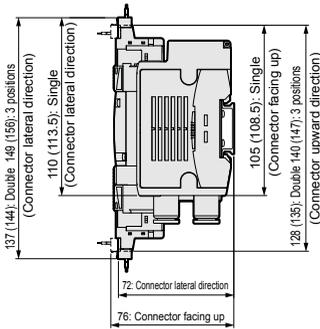
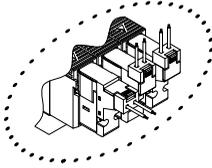


\* Refer to page 662 for dimensions of the valve block push-in fitting and supply and exhaust block push-in fitting.

- 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

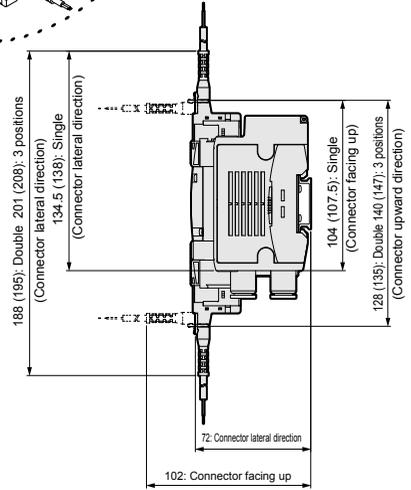
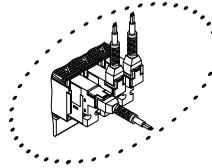
### Dimensions

● E connector (E)

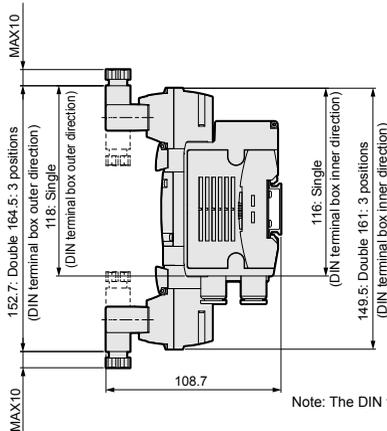
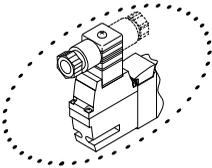


Note: Values in ( ) are applicable to AC voltages.

● E/J connector (E\*\*J)



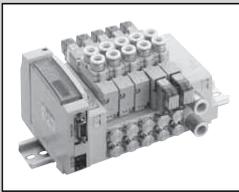
● DIN terminal box (B)



Note: The DIN terminal box assembly will be shipped facing inwards.

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
Dif. press.gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

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 block manifold  
Body piping

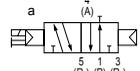
# MN4GA1/2-T\* Series

● Applicable cylinder bore size:  $\varnothing 20$  to  $\varnothing 80$

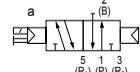


## JIS symbol

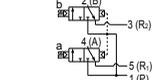
- 3-port valve
- 2-position single NC



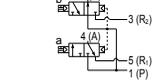
- 2-position single NO



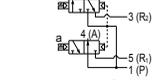
- Dual 3-port valve integrated
- (A side valve: NC, B side valve: NO)



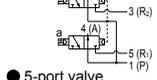
- (A side valve: NC, B side valve: NO)



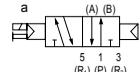
- (A side valve: NO, B side valve: NC)



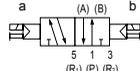
- (A side valve: NO, B side valve: NO)



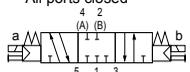
- 5-port valve
- 2-position single



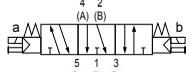
- 2-position double



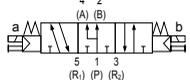
- 3-position
- All ports closed



- 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				— <b>P70</b>
	Dust generation preventing	Copper-based materials prohibited	Silicon-based materials prohibited	Halogen-based materials prohibited (fluorine, chlorine, bromine)	— <b>P74</b> Custom order product

## Manifold common specifications

Descriptions	
Manifold	Block manifold
Mounting method	DIN rail mount
Supply and exhaust method	Common supply/common exhaust (With internal exhaust check valve)
Pilot exhaust method	Main valve/pilot valve common exhaust (Pilot exhaust check valve integrated)
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 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*	T6*, T7*, T8*	
Rated voltage	V	24 VDC	12 VDC	24 VDC
Voltage fluctuation range (*4)		±10%		+10%, -5%
Holding current	Standard	0.017	0.034	0.017
Low energy/energy-saving circuit built-in	A	0.005	0.010	0.005
Power consumption	Standard	0.4		
Low energy/energy-saving circuit built-in	W	0.1		
Thermal class		B		
Surge suppressor *5		Zener diode		
Indicator		LED		

\*4: As for T6\*, T7\* and T8\* (serial transmission), because a voltage drop may occur due to the internal circuit, 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.

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

\*2: The degree of protection is dust proof. The unit is not water proof. 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.

## Individual specifications

Descriptions		MN3GA1/MN4GA1										
		T10	T11	T30	T50	T51	T52	T53	T6*0/1	T7*0/1	T8*1/2	
Max. station number	Standard wiring	16 stations	24 stations	24 stations	16 stations	18 stations	8 stations	24 stations	8/16 stations	8/16 stations	16/24 stations	
	Double wiring	8 stations	12 stations	12 stations	8 stations	9 stations	4 stations	12 stations	4/8 stations	4/8 stations	8/16 stations	
Max. number of solenoid		16 points	24 points	24 points	16 points	18 points	8 points	24 points	8/16 points	8/16 points	16/32 points	
Port size	Millimeter fitting/ M5, Rc thread	A/B port	Barbed fitting $\varnothing 1.8$							Push-in fitting $\varnothing 1.8, \varnothing 4, \varnothing 6$		M5
	P/R thread	P/R port	Push-in fitting $\varnothing 6, \varnothing 8$									
	Inch fitting/ M5, NPT thread	A/B port	Push-in fittings $\varnothing 1/8$ inch, $\varnothing 5/32$ inch							M5		
	P/R port	P/R port	Push-in fittings $\varnothing 1/4$ inch, $\varnothing 5/16$ inch									
	Millimeter fitting, G thread	A/B port	-									
	P/R port	P/R port	-									

Descriptions		MN3GA2/MN4GA2										
		T10	T11	T30	T50	T51	T52	T53	T6*0/1	T7*0/1	T8*1/2	
Max. station number	Standard wiring	16 stations	20 stations	20 stations	16 stations	18 stations	8 stations	20 stations	8/16 stations	8/16 stations	16/20 stations	
	Double wiring	8 stations	12 stations	12 stations	8 stations	9 stations	4 stations	12 stations	4/8 stations	4/8 stations	8/16 stations	
Max. number of solenoid		16 points	24 points	24 points	16 points	18 points	8 points	24 points	8/16 points	8/16 points	16/32 points	
Port size	Millimeter fitting/ M5, Rc thread	A/B port	Push-in fitting $\varnothing 4, \varnothing 6, \varnothing 8$							Rc1/8		
	P/R thread	P/R port	Push-in fitting $\varnothing 8, \varnothing 10$									
	Inch fitting/ M5, NPT thread	A/B port	Push-in fittings $\varnothing 1/4$ inch, $\varnothing 5/16$ inch							1/8NPT		
	P/R port	P/R port	Push-in fittings $\varnothing 5/16$ inch, $\varnothing 3/8$ inch									
	Millimeter fitting, G thread	A/B port	G1/8									
	P/R port	P/R port	Push-in fitting $\varnothing 8, \varnothing 10$									

For the weight, refer to page 634.

### 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	
MN3GA1 MN4GA1	Dual 3-port valve integrated	0.87	0.37	1.0 (0.68)	0.14 (0.22)	
	2-position	0.98	0.33	1.2 (0.71)	0.11 (0.27)	
	3-position	All ports closed	0.92	0.34	1.0 —	0.16 —
		ABR connection	0.92	0.29	1.1 (0.69)	0.13 (0.22)
	PAB connection	1.1	0.35	1.1 —	0.17 —	
MN3GA2 MN4GA2	Dual 3-port valve integrated	1.7	0.37	2.2 (1.6)	0.13 (0.21)	
	2-position	2.2	0.21	2.5 (1.7)	0.19 (0.10)	
	3-position	All ports closed	2.0	0.25	2.3 —	0.10 —
		ABR connection	2.0	0.27	2.5 (1.7)	0.18 (0.12)
	PAB connection	2.3	0.31	2.3 —	0.16 —	

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 is attached.

### Reduced wiring specifications

Descriptions	T10	T11	T30	T50	T51	T52	T53
Type	Common terminal block M3 thread	Common terminal block Clamping	D sub-connector	20 pin flat cable connector (with power supply terminal)	20 pin flat cable connector (without power supply terminal)	10 pin flat cable connector (without power supply terminal)	26 pin flat cable connector (without power supply terminal)
Connector	—	—	D sub-connector 25 pin	MIL-C-83503 standard compliant pressure welding 20-pin socket	MIL-C-83503 standard compliant pressure welding 20-pin socket	MIL-C-83503 standard compliant pressure welding 10-pin socket	MIL-C-83503 standard compliant pressure welding 26-pin socket

### Serial transmission slave unit specifications

Descriptions	T6G1	T6C0-1	T6C1-1	T6A0-2	T6A1-2	T6J0-2	T6J1-2	T6E0	T6E1
Network name	CC-Link ver1.10	CompoBus/S		UNIWARE SYSTEM		UNIWARE H SYSTEM		S-LINK	
Power supply voltage	Unit side	24 VDC ±10%				24 VDC +10%, -5%			
	Valve side	24 VDC +10%, -5%				Power supply terminal common			
Current consumption	Unit side	100 mA or less (when all output points are ON)				100 mA or less (when all output points are ON)			
	Valve side	15 mA or less (when all output points are OFF)				Load current is not included			
Output points	16 points	8 points	16 points	8 points	16 points	8 points	16 points	8 points	16 points
Occupied number	1 station	1 node address (8-points mode)	2 node address (8-points mode)	8 output points	16 output points	8 output points	16 output points	FAN-in:3 *3	FAN-in:3 *3
Operation display	LED (power supply and communication state)								
Output	NPN								

Descriptions	T7C0-4	T7C1-4	T7E0	T7E1	T7G1	T7L1-5	T7D1	T7S1	T7SP1	
Network name	CompoBus/S		S-LINK		CC-Link ver1.10	SAVE NET	DeviceNet*6,7	CompoNet		
Power supply voltage	Unit side	24 VDC ±10%				24 VDC +10%, -5%				
	Valve side	24 VDC +10%, -5%				Power supply terminal common				
	Communication side	—				—	—	11 to 25 VDC *8	14.0 to 26.4 VDC	
Current consumption	Unit side	50 mA or less (when all output points are ON)	90 mA or less (when all output points are ON)		110 mA or less (when all output points are ON)		40 mA or less (when all output points are ON)			
	Valve side	15 mA or less (when all output points are OFF)	Load current is not included		Load current is not included		Load current is not included			
	Communication side	—				—	—	50 mA or less	65 mA or less (all points ON: 24 VDC) 95 mA or less (all points ON: 14 VDC)	
Output points	8 points	16 points	8 points	16 points	16 points	16 points	16 points	16 points		
Occupied number	1 node address (8-point mode)	2 node address (8-point mode)	FAN-in:3 *3	FAN-in:3 *3	1 station	1 station	2 bytes	Word slave 1 node (16 points)		
Operation display	LED (power supply and communication state)									
Output	NPN							NPN	PNP	

Descriptions		T8G1	T8GP1	T8P1	T8PP1	T8EC1	T8ECP1	T8EN1	T8ENP1
		T8G2	T8GP2	T8P2	T8PP2	T8EC2	T8ECP2	T8EN2	T8ENP2
Network name		CC-Link ver1.10		PROFIBUS-DP(V0)		EtherCAT		EtherNet/IP	
Power supply voltage	Unit side	24 VDC ±10%							
	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)		
	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							
Output points		T8*1: 16 points T8*2: 32 points							
Occupied number		1 station							
Operation display		LED (power supply and communication state)							
Output		NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output

\*1 The long-distance communication mode is not available.  
 \*2 Compatible with 128 transmission points and a transmission distance of 200 m. Contact CKD for other specifications.  
 \*3 FAN-in indicates the capacity of the input from the D-G line. It is necessary to calculate the number of units to be connected.  
 \*4 The long-distance communication mode is available.  
 \*5 Compatible with a transmission bit rate of 128 bits and the transmission method of semi-duplicated communication. Contact CKD for other specifications.  
 \*6 Compatible with DeviceNet compliant networks (DLNK, etc.) as well.  
 \*7 Contact CKD for EDS file. EDS file: A file containing text for parameters for communication with masters of each company.  
 \*8 The communication power supply (V+ and V- of the DeviceNet cable) is insulated from the power supply terminals (unit power supply/valve power supply).

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

# MN4GA1/2-T\* Series

Reduced wiring block manifold; body piping

## How to order

Manifold model No.

**MN4GA1** (1) 0 R - **C6** - **T30** **W** **H** - **10** - **3** - **P70**

3-port manifold model No.

**MN3GA1** (1) 0 R - **C6** - **T30** **W** **H** - **10** - **3** - **P70**

Discrete valve block with solenoid valve

**N4GA1** (1) 0 R - **C6** - **A2N** **H** - **3** - **P70**

Discrete 3-port valve block with solenoid valve

**N3GA1** (1) 0 R - **C6** - **A2N** **H** - **3** - **P70**

\* When a cable is required, refer to page 670 and specify the cable length for "1".  
When a cable is not required, leave the space blank.

Discrete solenoid valve

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

Discrete 3-port solenoid valve

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

**A** Model No.

**B** Solenoid position

**C** Port size \*1

**I** Clean room specifications

## ⚠️ Precautions for model selection

- \*1: Specify the port size of the P/R port with the supply and exhaust block model No. in the manifold specifications.
- \*2: Select MN4GA\*80R when mixing with 4, 5-port valves. Further, select MN3GA\*80R when mixing with masking plate.
- \*3: Not compatible with combination with external pilot (K).  
Dimensions are the same as those of the respective 2-position double solenoid.
- \*4: The push-in fitting cannot be mixed with the discrete valve's 4 (A) or 2 (B) port.
- \*5: Blank...Wired based on the type of valve used. W...All wired for double solenoid valves regardless of the type of valve used.
- \*6: **Spare wiring (A type socket assembly) is included on the cap side for single types. A holder for retaining the socket assembly is included for single unit valves (A2N).**
- \*7: **3-position all ports closed and PAB connection are not provided with specifications (H) with the exhaust check valve. Refer to page 731 for details on the exhaust check valve.**
- \*8: Contact CKD when using a vacuum with the external pilot (K).
- \*9: Surgeless "S" and low exoergic/energy circuit "E" cannot be selected together.
- \*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. In addition, refer to pages 677 to 680 for details.**
- \*13: Combination of A (ozone proof) with **I** item clean specifications P74 is not supported.
- \*14: Specifications which do not allow copper-based/silicon-based/halogen-based materials apply to the main valve section.
- \*15: P74 Series is a custom order product.

**B** Reduced wiring, Serial transmission

**E** Terminal and connector pin wiring

**F** Option

**G** Station No.

**H** Voltage

A Model No.					
Manifold			Discrete valve block with solenoid valve/Discrete solenoid valve		
3-port valve	5-port valve				
MN3GA1	MN4GA1	MN4GA2	(N) 3GA1	(N) 3GA2	(N) 4GA1
			(N) 4GA2		

Code	Content								
<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 PAB connection								
1	2-position single normally closed *2								
11	2-position single normally open *2								
66	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 (ports A/B)</b>									
Type	Millimeter fitting/Rc thread								
CF	ø1.8 barbed fitting (applicable tube UP-9102-*)								
C18	ø1.8 push-in fitting for fiber tube (applicable tube UP-9402-*)								
C4	ø 4 push-in fitting								
C6	ø 6 push-in fitting								
C8	ø 8 push-in fitting								
CX	Push-in fitting mix *4								
M5	M5								
06	Rc1/8								
Type	Inch fitting/inch thread								
C3N	ø 1/8 inch push-in fitting								
C4N	ø 5/32 inch push-in fitting								
C6N	ø 1/4 inch push-in fitting								
C8N	ø 5/16 inch push-in fitting								
CXN	Push-in fitting mix *4								
06N	1/8NPT								
Type	G thread								
06G	G1/8								

<b>D Reduced wiring, Serial transmission</b>									
Refer to the next page for reduced wiring and serial transmission.									

<b>E Terminal and connector pin wiring</b>									
Blank	Standard wiring	*5							
W	Double wiring	*5							
W1	Double wiring (with single spare wiring)	*5, 6							

<b>F 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 proof								
S	Surgeless	*9							
E	Low exoergic/energy-saving circuit	*9, 10							
Q	Reduced wiring mall								
F	A/B port filter integrated	*11							
Z1	Air supply spacer	*12							
Z3	Exhaust spacer	*12							

<b>G Station No.</b>									
1	1 station								
to									
24	24 stations (Refer to page 238 for the max. station number per model No.)								

<b>H Voltage</b>									
3	24 VDC								
4	12 VDC								

<b>I Clean room specifications (#13, 14, 15)</b>									
Structure	Material restriction								
P70	Exhaust treatment	—							
P74	Exhaust treatment	Copper-based/silicon-based/halogen-based materials (fluorine, chlorine, bromine) are prohibited							

indicates specifications not available.

# MN4GA1/2-T\* Series

Reduced wiring block manifold; body piping

A Model no		Manifold				Discrete valve block with solenoid valve/Discrete solenoid valve			
		3-port valve		5-port valve					
		MN3GA1	MN3GA2	MN4GA1	MN4GA2	(N) 3GA1	(N) 3GA2	(N) 4GA1	(N) 4GA2

D Reduced wiring (lamp and surge suppressor provided as standard)		12 VDC/24 VDC								
T10	Common terminal block (M3 thread)	Left side specifications	●	●	●	●				
T10R		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	●	●	●	●				

D Serial transmission (lamp and surge suppressor provided as standard)		24 VDC								
T6A0	UNIWIRES SYSTEM	NPN 8 points	●	●	●	●				
T6A1		NPN 16 points	●	●	●	●				
T6C0	CompoBus/S	NPN 8 points	●	●	●	●				
T6C1		NPN 16 points	●	●	●	●				
T6E0	S-LINK	NPN 8 points	●	●	●	●				
T6E1		NPN 16 points	●	●	●	●				
T6G1	CC-Link	NPN 16 points	●	●	●	●				
T6J0		NPN 8 points	●	●	●	●				
T6J1	UNIWIRES H SYSTEM	NPN 16 points	●	●	●	●				
T7C0	CompoBus/S (thin)	NPN 8 points	●	●	●	●				
T7C1		NPN 16 points	●	●	●	●				
T7D1	DeviceNet (thin)	NPN 16 points	●	●	●	●				
T7E0		NPN 8 points	●	●	●	●				
T7E1	S-LINK (thin)	NPN 16 points	●	●	●	●				
T7G1	CC-Link (thin)	NPN 16 points	●	●	●	●				
T7L1		SAVE NET (thin)	NPN 16 points	●	●	●	●			
T7S1	CompoNet (thin)	NPN 16 points	●	●	●	●				
T7SP1		PNP 16 points	●	●	●	●				
T8G1	CC-Link	NPN 16 points	●	●	●	●				
T8G2		NPN 32 points	●	●	●	●				
T8GP1	(thin)	PNP 16 points	●	●	●	●				
T8GP2		PNP 32 points	●	●	●	●				
T8P1	PROFIBUS-DP	NPN 16 points	●	●	●	●				
T8P2		NPN 32 points	●	●	●	●				
T8PP1	(thin)	PNP 16 points	●	●	●	●				
T8PP2		PNP 32 points	●	●	●	●				
T8EC1	EtherCAT	NPN 16 points	●	●	●	●				
T8EC2		NPN 32 points	●	●	●	●				
T8ECP1	(thin)	PNP 16 points	●	●	●	●				
T8ECP2		PNP 32 points	●	●	●	●				
T8EN1	EtherNet/IP	NPN 16 points	●	●	●	●				
T8EN2		NPN 32 points	●	●	●	●				
T8ENP1	(thin)	PNP 16 points	●	●	●	●				
T8ENP2		PNP 32 points	●	●	●	●				
A2N	Without lead wire (without socket)	With surge suppressor/lamp					●	●	●	●

Ozone proof specifications

• Cutting oil prohibited specifications

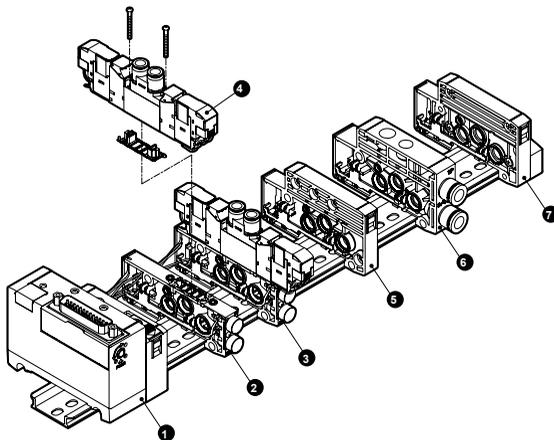
This can be set by selecting option "A" of (F) in how to order on page 632.

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

# MN4GA1/2-T\* Series

Reduced wiring block manifold; body piping

## Manifold components explanation and parts list



List of main components (refer to pages 666 to 682 for details)

No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
1	Electrical block	N4G1R-T30	5	Partition block	N4G1R-S-P70/P74
2	Discrete valve block	N4GA1R-V2-P70/P74-P70/P74	6	Supply and exhaust block	N4G1R-Q-8-P70/P74
3	Discrete valve block with solenoid valve	N4GA120R-C6-A2NH-3-P70/P74	7	End block R	N4G1R-ER-P70/P74
4	Solenoid valve body	4GA129R-C6-A2NH-3-P70/P74			

### A type reduced wiring weight

4GA1

Parts name	Model No.	Weight	Parts name	Model No.	Weight	Parts name	Model No.	Weight
Valve block with solenoid valve	N3GA110R-C6-A2N-3	72	Supply and exhaust block	N4G1R-Q-8	58	Electrical block	N4G1R-T10(R)	207
	N3GA1110R-C6-A2N-3	72		N4G1R-QK-8	60		N4G1R-T30(R)	165
	N4GA110R-C6-A2N-3	72	End block	N4G1R-E*	60		N4G1R-T50(R)	167
	N4GA120R-C6-A2N-3	91	Partition block	N4G1R-S	45		N4G1R-T6*	295
	N4GA110R-C6-A2N-3	95					N4G1R-T7*	203
N3GA1660R-C6-A2N-3	91				N4G1R-T8*	229		
Valve block with masking plate	N4GA1R-MP*-C6	34						

4GA2

Parts name	Model No.	Weight	Parts name	Model No.	Weight	Parts name	Model No.	Weight
Valve block with solenoid valve	N3GA210R-C8-A2N-3	131	Supply and exhaust block	N4G2R-Q-10	83	Electrical block	N4G2R-T10(R)	223
	N3GA2110R-C8-A2N-3	131		N4G2R-QK-10	85		N4G2R-T30(R)	182
	N4GA210R-C8-A2N-3	131	End block	N4G2R-E*	84		N4G2R-T50(R)	184
	N4GA220R-C8-A2N-3	151	Partition block	N4G2R-S	60		N4G2R-T6*	312
	N4GA210R-C8-A2N-3	163					N4G2R-T7*	204
N4GA2660R-C8-A2N-3	151				N4G2R-T8*	242		
Valve block with masking plate	N4GA2R-MP*-C8	66						

### Parts list

Application	Parts name	Model No.	Application	Parts name	Model No.
Valve 4G1	Cartridge fitting ø 1.8 barbed	4G1R-JOINT-CF-P70	Valve	Coil assembly	4GR-A2N-(*)2-COIL-(*)3-P70
	Cartridge fitting ø 1.8 straight	4G1R-JOINT-C18-P70			*2: Ozone/cutting oil proof (blank, A)
	Cartridge fitting ø 4 straight	4G1R-JOINT-C4-P70			Surgeless (S)
	Cartridge fitting ø 6 straight	4G1R-JOINT-C6-P70			Low exoergic/energy-saving circuit (E)
	Cartridge fitting ø 1/8 inch straight	4G1R-JOINT-C3N-P70			*3: Voltage (3, 4)
Valve 4G2	Cartridge fitting ø 5/32 inch straight	4G1R-JOINT-C4N-P70	Manifold	Expansion socket assembly (Details on page 737)	a side for solenoid
	Plug cartridge	4G1R-JOINT-CPG-P70			N4GR-SOCKET-ASSY- (Selection No.)-P70
	Cartridge fitting ø 4 straight	4G2R-JOINT-C4-P70			b side for solenoid
	Cartridge fitting ø 6 straight	4G2R-JOINT-C6-P70			N4GR-RELAY-SOCKET- (Selection No.)-P70
	Cartridge fitting ø 8 straight	4G2R-JOINT-C8-P70			
	Cartridge fitting ø 1/4 inch straight	4G2R-JOINT-C6N-P70			
	Cartridge fitting ø 5/16 inch straight	4G2R-JOINT-C8N-P70			
	Plug cartridge	4G2R-JOINT-CPG-P70			

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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  
Dif.press.gauge

Electro-  
pneumatic R

Speed  
controller

Auxiliary  
valve

Fitting/  
tube

Clean  
air unit

Pressure  
sensor

Flow rate  
sensor

Valve for  
air blow

Ending

# MN4GA1/2-T10 Series

Reduced wiring block manifold; body piping

## Dimensions

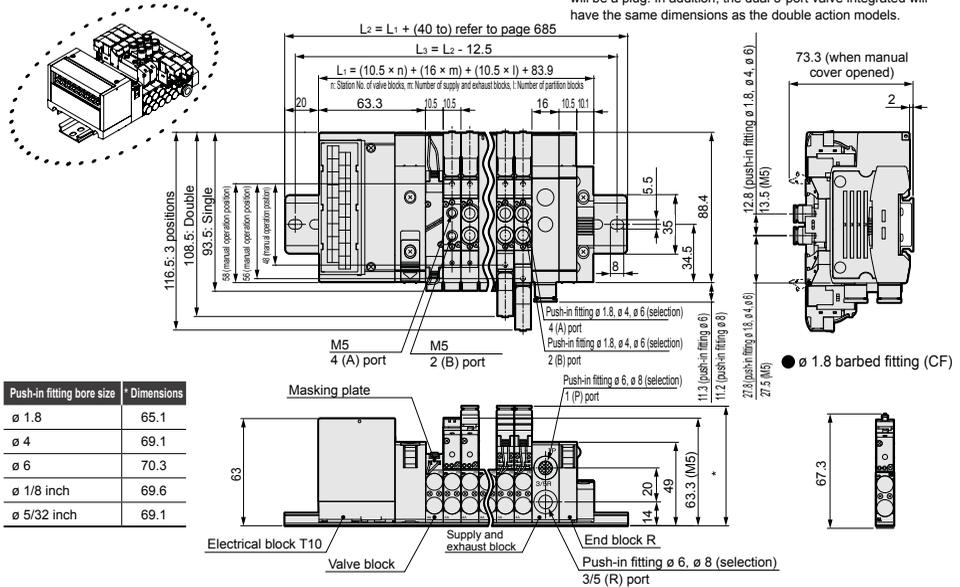
### MN4GA1-P7\*

● Common terminal block (M3 thread) left side (T10)

Note 1: Clamping (T11) is also available.

The dimensions are the same as the T10.

Note 2: With the 2-position single 3-port valve, either the A port or B port will be a plug. In addition, the dual 3-port valve integrated will have the same dimensions as the double action models.

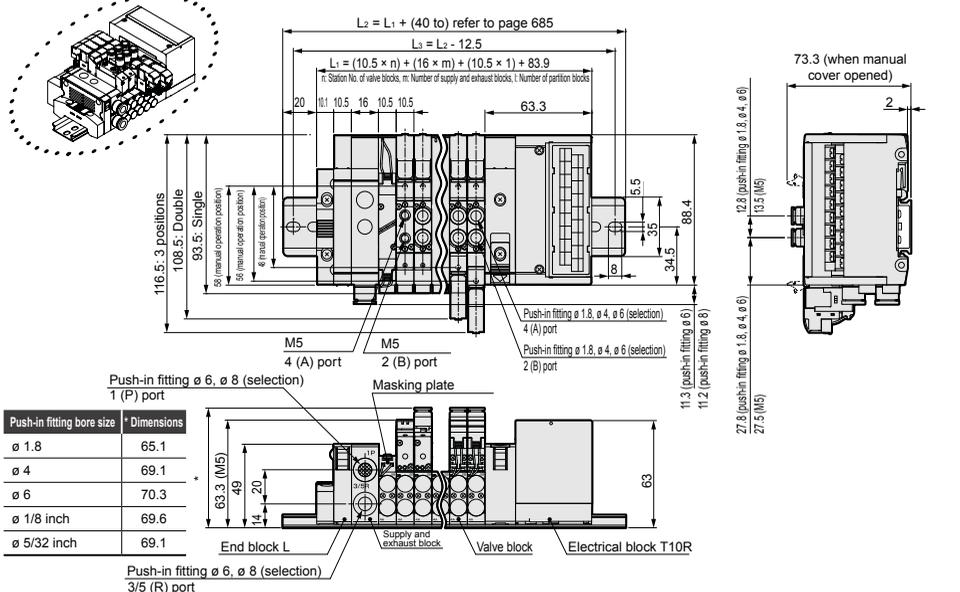


● Common terminal block (M3 thread) right side (T10R)

Note 1: Clamping (T11R) is also available.

The dimensions are the same as the T10R.

Note 2: With the 2-position single 3-port valve, either the A port or B port will be a plug. In addition, the dual 3-port valve integrated will have the same dimensions as the double action models.

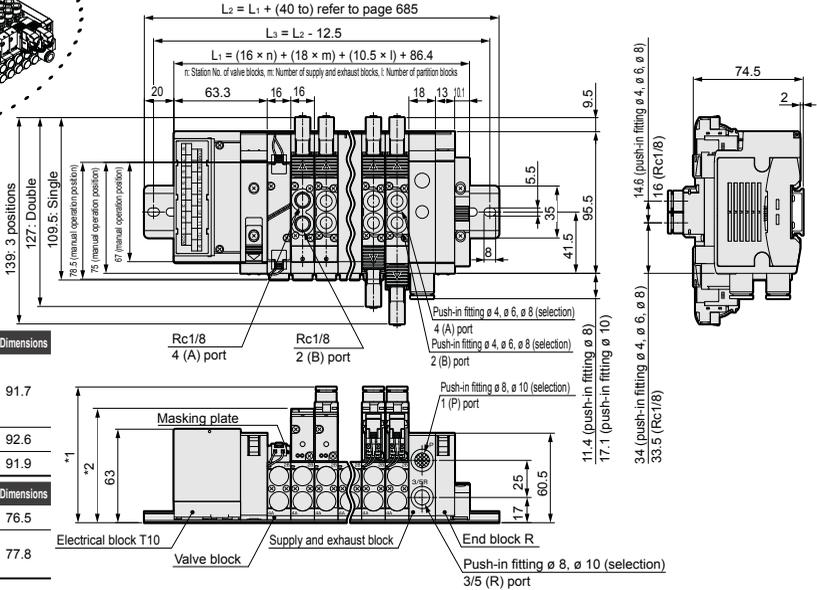
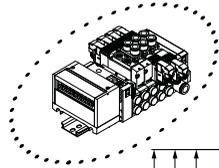


### Dimensions



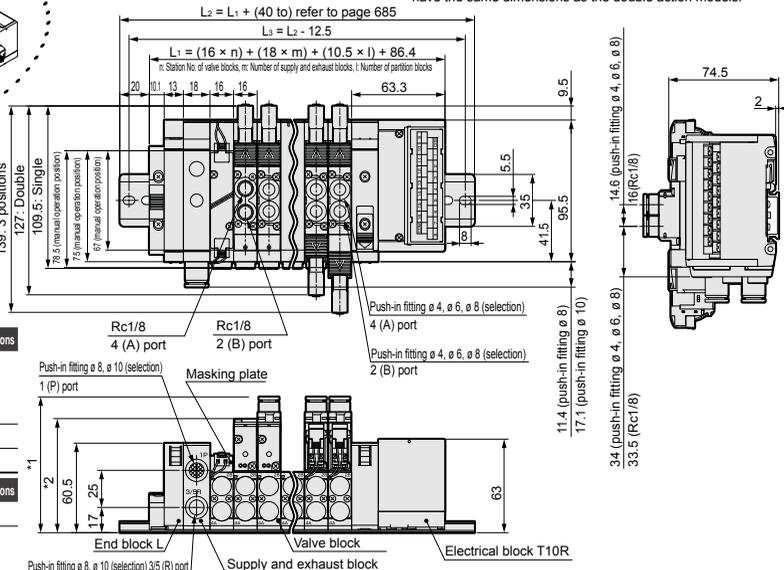
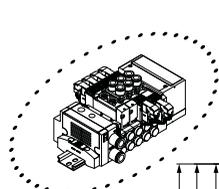
#### MN4GA2-P7\*

##### Common terminal block (M3 thread) left side (T10)



Push-in fitting bore size	1 Dimensions
$\phi 4$	91.7
$\phi 6$	
$\phi 8$	
$\phi 1/4$ inch	92.6
$\phi 5/16$ inch	91.9
Female thread size	2 Dimensions
Rc1/8	76.5
1/8NPT	77.8
G1/8	

##### Common terminal block (M3 thread) right side (T10R)



Push-in fitting bore size	1 Dimensions
$\phi 4$	91.7
$\phi 6$	
$\phi 8$	
$\phi 1/4$ inch	92.6
$\phi 5/16$ inch	91.9
Female thread size	2 Dimensions
Rc1/8	76.5
1/8NPT	77.8
G1/8	

Note 1: Clamping (T11) is also available. The dimensions are the same as the T10.  
 Note 2: With the 2-position single 3-port valve, either the A port or B port will be a plug. In addition, the dual 3-port valve integrated will have the same dimensions as the double action models.

Note 1: Clamping (T11R) is also available. The dimensions are the same as the T10R.  
 Note 2: With the 2-position single 3-port valve, either the A port or B port will be a plug. In addition, the dual 3-port valve integrated will have the same dimensions as the double action models.

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

# MN4GA1/2-T30 Series

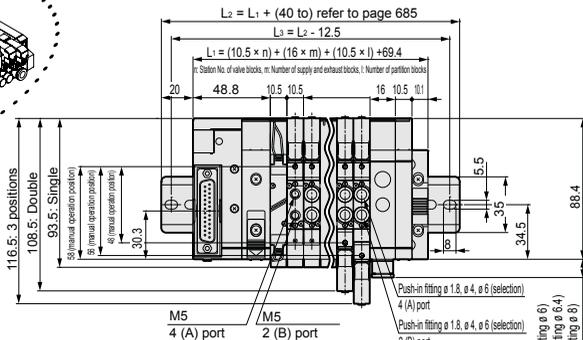
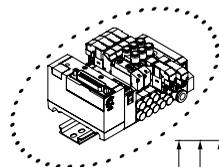
Reduced wiring block manifold; body piping

## Dimensions

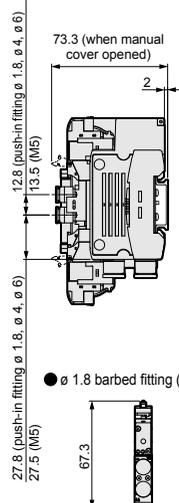
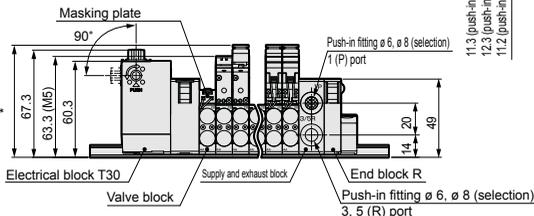
### MN4GA1-P7\*

● D sub-connector left side (T30)

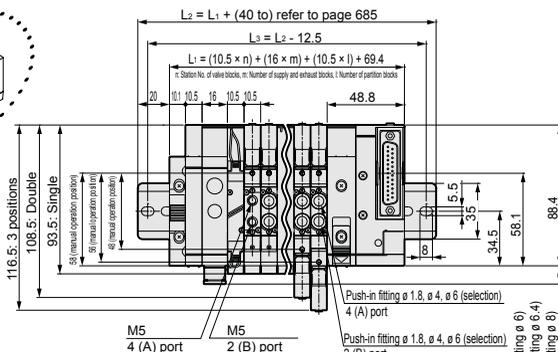
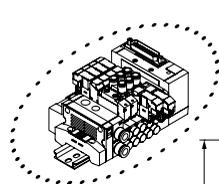
Note: With the 2-position single 3-port valve, either the A port or B port will be a plug. In addition, the dual 3-port valve integrated will have the same dimensions as the double action models.



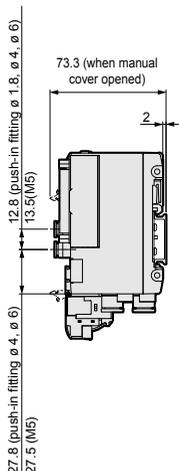
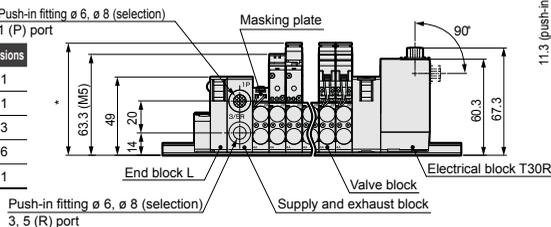
Push-in fitting bore size	Dimensions
$\phi 1.8$	65.1
$\phi 4$	69.1
$\phi 6$	70.3
$\phi 1/8$ inch	69.6
$\phi 5/32$ inch	69.1



● D sub-connector right side (T30)



Push-in fitting bore size	Dimensions
$\phi 1.8$	65.1
$\phi 4$	69.1
$\phi 6$	70.3
$\phi 1/8$ inch	69.6
$\phi 5/32$ inch	69.1



# MN4GA1/2-T30 Series

Reduced wiring block manifold; body piping

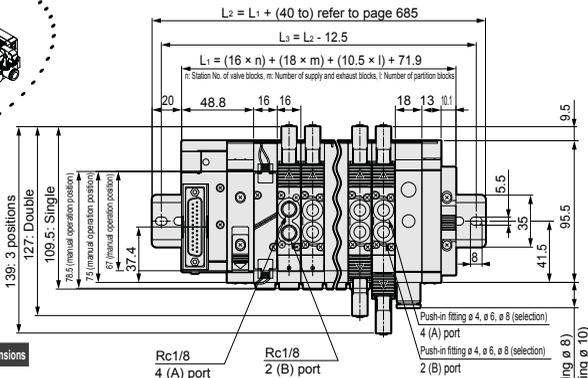
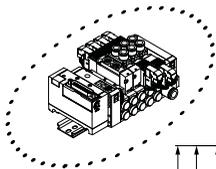
## Dimensions



### MN4GA2-P7\*

#### ● D sub-connector left side (T30)

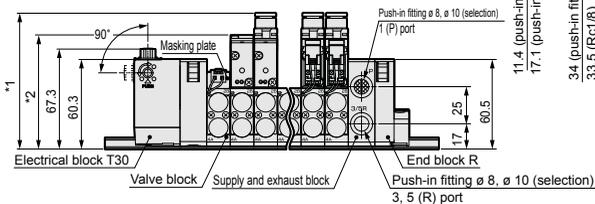
Note: With the 2-position single 3-port valve, either the A port or B port will be a plug. In addition, the dual 3-port valve integrated will have the same dimensions as the double action models.



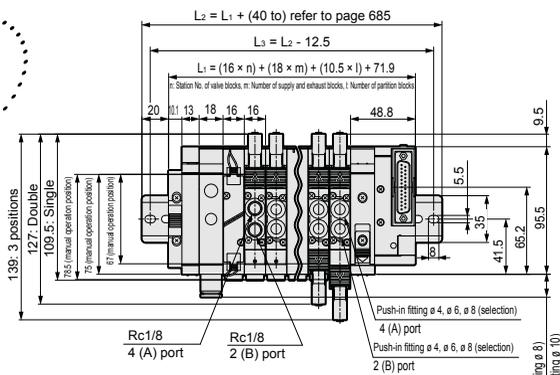
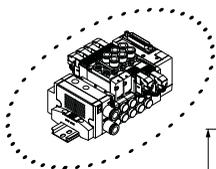
Push-in fitting bore size	1 Dimensions
$\phi 4$	91.7
$\phi 6$	
$\phi 8$	
$\phi 1/4$ inch	92.6
$\phi 5/16$ inch	91.9

Female thread size	2 Dimensions
Rc1/8	76.5
1/8NPT	77.8
G1/8	



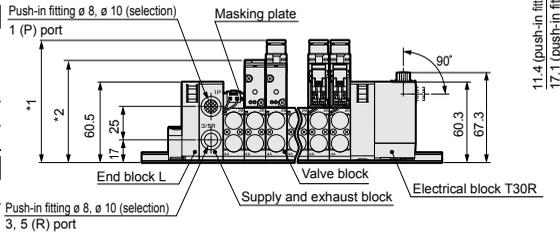
#### ● D sub-connector right side (T30)



Push-in fitting bore size	1 Dimensions
$\phi 4$	91.7
$\phi 6$	
$\phi 8$	
$\phi 1/4$ inch	92.6
$\phi 5/16$ inch	91.9

Female thread size	2 Dimensions
Rc1/8	76.5
1/8NPT	77.8
G1/8	



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

# MN4GA1/2-T50 Series

Reduced wiring block manifold; body piping

## Dimensions

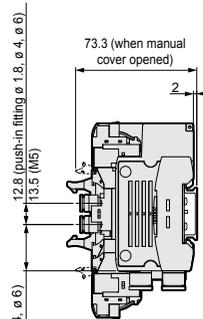
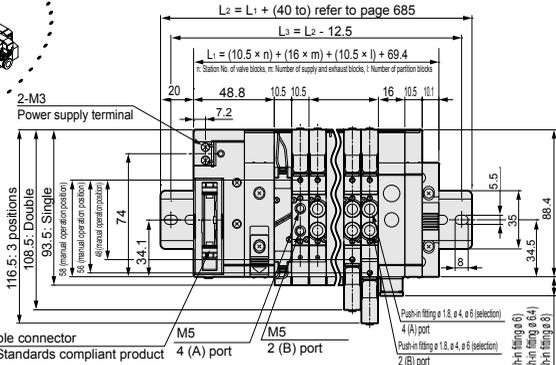
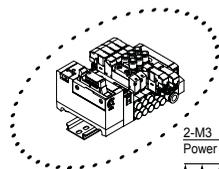


### MN4GA1-P7\*

● Flat cable connector left side (T50) with power supply terminal

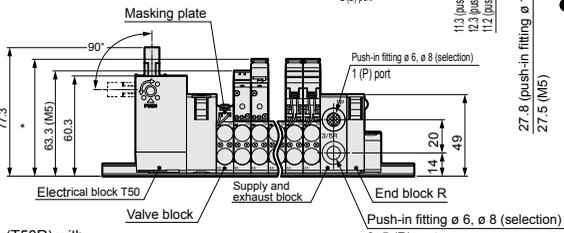
Note 1: The T51, T52, and T53 are also available as flat cable connector models. The dimensions are the same as the T50.

Note 2: With the 2-position single 3-port valve, either the A port or B port will be a plug. In addition, the dual 3-port valve integrated will have the same dimensions as the double action models.

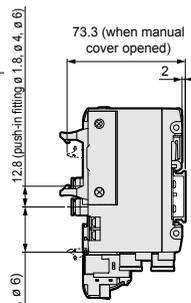
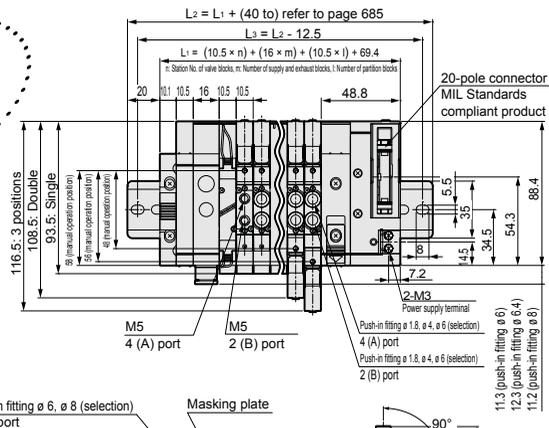
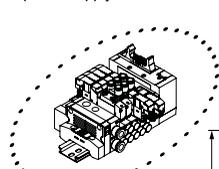


● ø 1.8 barbed fitting (CF)

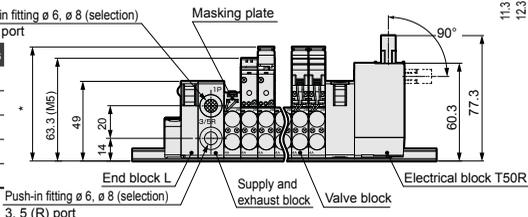
Push-in fitting bore size	Dimensions
ø 1.8	65.1
ø 4	69.1
ø 6	70.3
ø 1/8 inch	69.6
ø 5/32 inch	69.1



● Flat cable connector right side (T50R) with power supply terminal



Push-in fitting bore size	Dimensions
ø 1.8	65.1
ø 4	69.1
ø 6	70.3
ø 1/8 inch	69.6
ø 5/32 inch	69.1



# MN4GA1/2-T50 Series

Reduced wiring block manifold; body piping

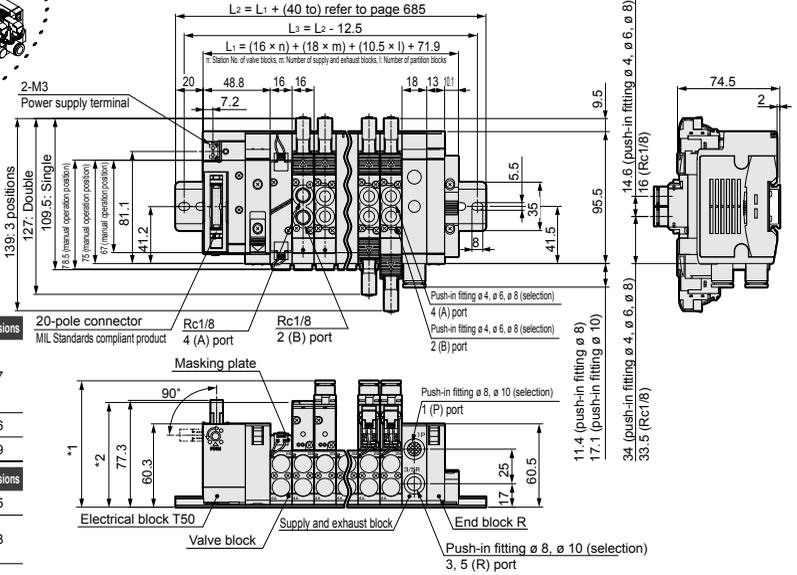
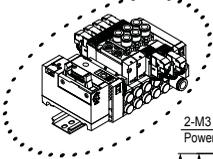
## Dimensions

### MN4GA2-P7\*

- Flat cable connector left side (T50) with power supply terminal

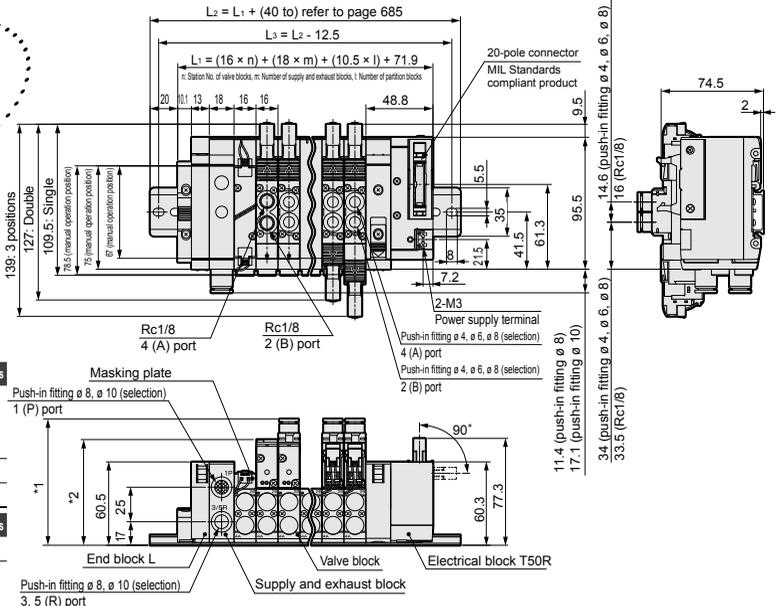
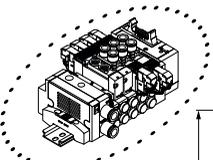
Note 1: The T51, T52, and T53 are also available as flat cable connector models. The dimensions are the same as the T50.

Note 2: With the 2-position single 3-port valve, either the A port or B port will be a plug. In addition, the dual 3-port valve integrated will have the same dimensions as the double action models.



Push-in fitting bore size	1 Dimensions
$\phi 4$	91.7
$\phi 6$	
$\phi 8$	
$\phi 1/4$ inch	92.6
$\phi 5/16$ inch	91.9
Female thread size	2 Dimensions
Rc1/8	76.5
1/8NPT	77.8
G1/8	

- Flat cable connector right side (T50R) with power supply terminal



Push-in fitting bore size	1 Dimensions
$\phi 4$	91.7
$\phi 6$	
$\phi 8$	
$\phi 1/4$ inch	92.6
$\phi 5/16$ inch	91.9
Female thread size	2 Dimensions
Rc1/8	76.5
1/8NPT	77.8
G1/8	

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

# MN4GA1/2-T6\* Series

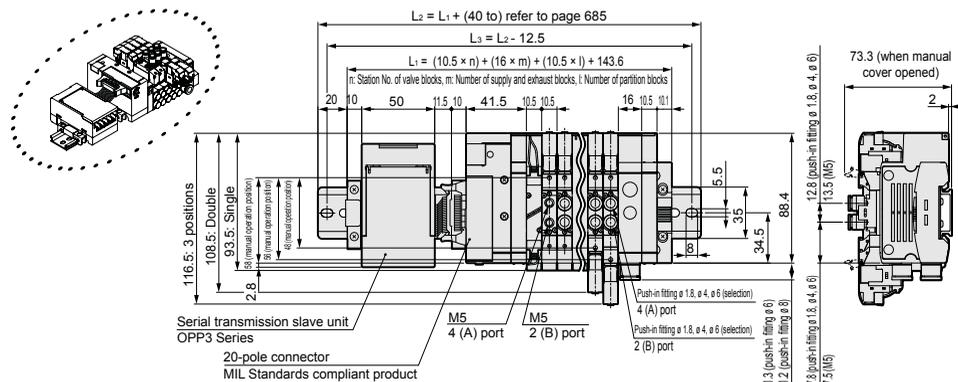
Reduced wiring block manifold; body piping

## Dimensions

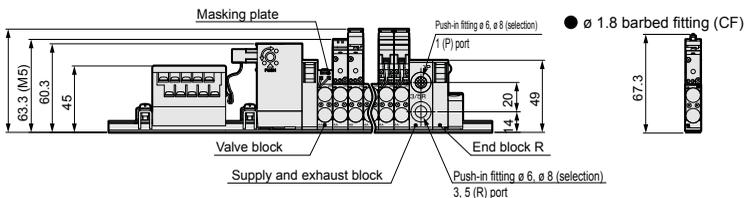
### MN4GA1-P7\*

● Serial transmission (T6\*)

Note: With the 2-position single 3-port valve, either the A port or B port will be a plug. In addition, the dual 3-port valve integrated will have the same dimensions as the double action models.

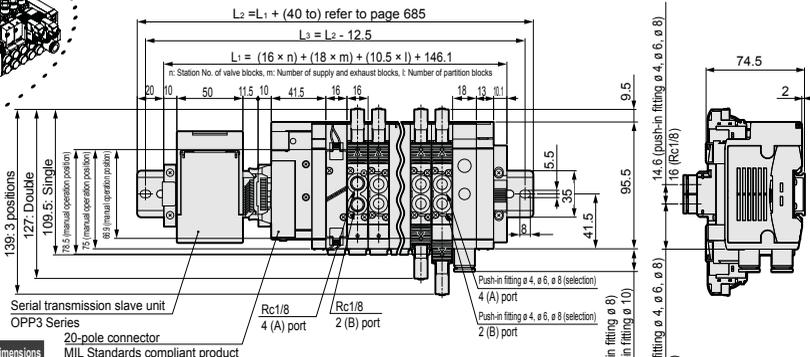
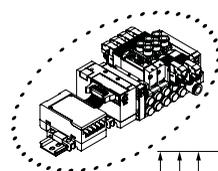


Push-in fitting bore size	Dimensions
$\phi 1.8$	65.1
$\phi 4$	69.1
$\phi 6$	70.3
$\phi 1/8$ inch	69.6
$\phi 5/32$ inch	69.1

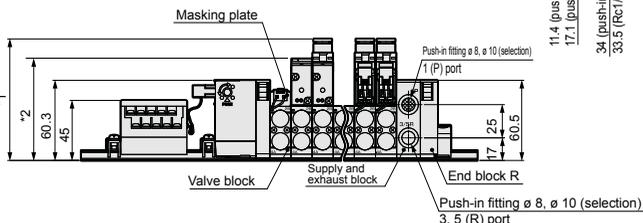


### MN4GA2-P7\*

● Serial transmission (T6\*)



Push-in fitting bore size	1 Dimensions
$\phi 4$	91.7
$\phi 6$	
$\phi 8$	
$\phi 1/4$ inch	92.6
$\phi 5/16$ inch	91.9
Female thread size	2 Dimensions
Rc1/8	76.5
1/8NPT	77.8
G1/8	



# MN4GA1/2-T7\* Series

Reduced wiring block manifold; body piping

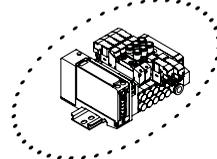
## Dimensions



### MN4GA1-P7\*

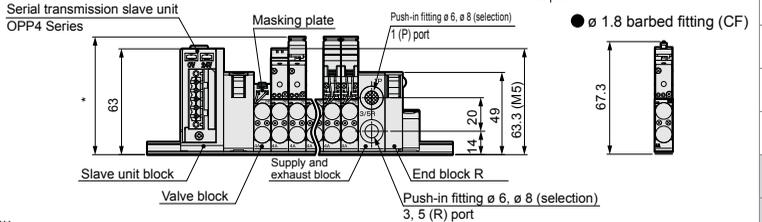
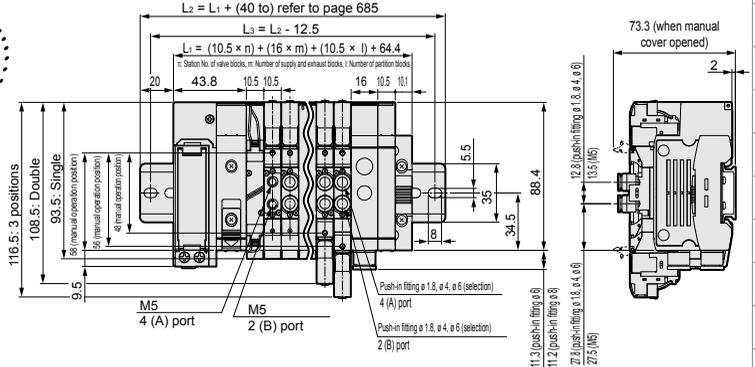
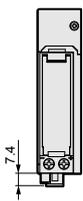
● Thin serial transmission (T7\*)

Note: With the 2-position single 3-port valve, either the A port or B port will be a plug. In addition, the dual 3-port valve integrated will have the same dimensions as the double action models.



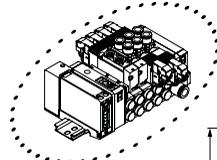
Push-in fitting bore size	Dimensions
ø 1.8	65.1
ø 4	69.1
ø 6	70.3
ø 1/8 inch	69.6
ø 5/32 inch	69.1

With T7S\*1



### MN4GA2-P7\*

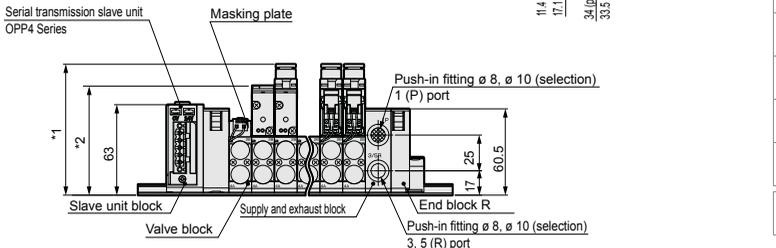
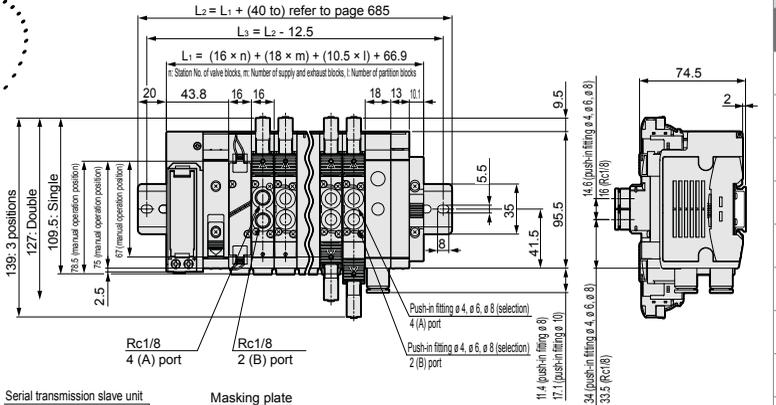
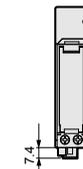
● Thin serial transmission (T7\*)



Push-in fitting bore size	Dimensions
ø 4	91.7
ø 6	
ø 8	92.6
ø 1/4 inch	
ø 5/16 inch	91.9

Female thread size	Dimensions
Rc1/8	76.5
1/8NPT	77.8
G1/8	

With T7S\*1



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.purge
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

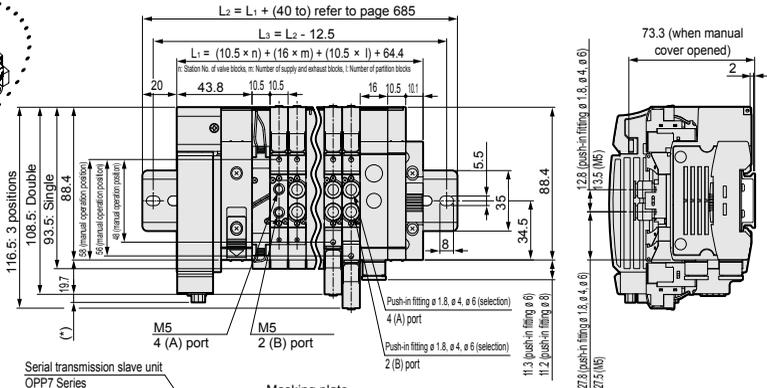
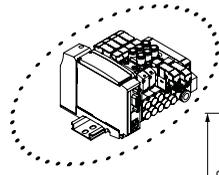
# MN4GA1/2-T8\* Series

Reduced wiring block manifold; body piping

## Dimensions

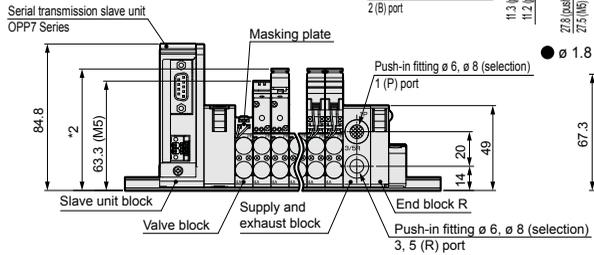
### MN4GA1-P7\*

● Thin serial transmission (T8\*)



Serial transmission	*1 Dimensions
T8G*	1.0
T8P*	4.9
T8E*	1.5

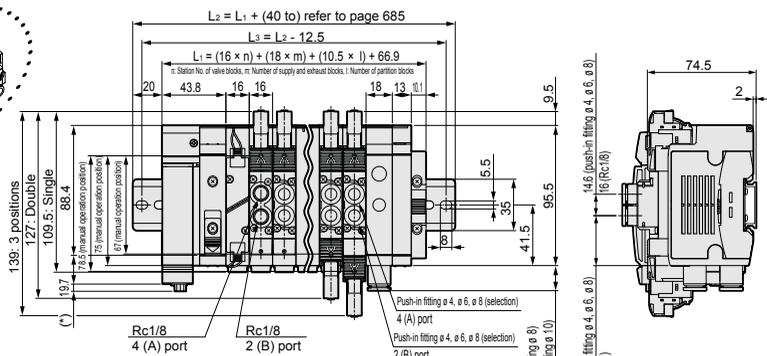
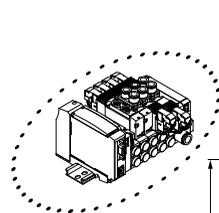
Push-in fitting bore size	*2 Dimensions
ø 1.8	65.1
ø 4	69.1
ø 6	70.3
ø 1/8 inch	69.6
ø 5/32 inch	69.1



● ø 1.8 barbed fitting (CF)

### MN4GA2-P7\*

● Thin serial transmission (T8\*)

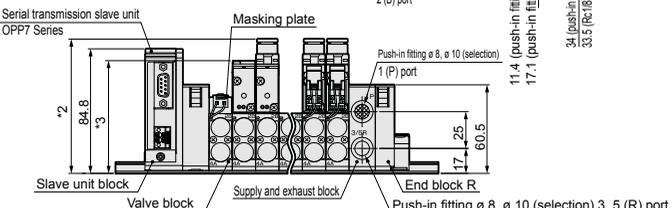


Serial transmission	*1 Dimensions
T8G*	1.0
T8P*	4.9
T8E*	1.5

Push-in fitting bore size	*2 Dimensions
ø 4	91.7
ø 6	
ø 8	
ø 1/4 inch	92.6
ø 5/16 inch	91.9

Female thread size	*3 Dimensions
Rc1/8	76.5
1/8NPT	77.8
G1/8	

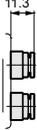


### Dimensions

#### MN4G1 supply and exhaust block

● Straight fitting

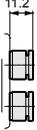
●  $\varnothing 6$  (6)



●  $\varnothing 6.4$  (6N)

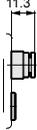


●  $\varnothing 8$  (8)



● Straight fitting, plug on one side

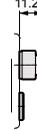
●  $\varnothing 6$  (6X)



●  $\varnothing 6.4$  (6NX)

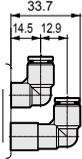


●  $\varnothing 8$  (8X)

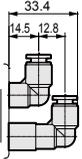


● Radial fitting (upward)

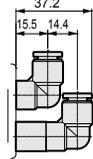
●  $\varnothing 6$  (6L)



●  $\varnothing 6.4$  (6LN)

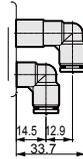


●  $\varnothing 8$  (8L)

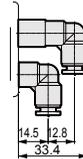


● Radial fitting (downward)

●  $\varnothing 6$  (6D)



●  $\varnothing 6.4$  (6DN)

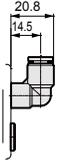


●  $\varnothing 8$  (8D)

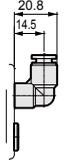


● Radial fitting (upward), plug on one side

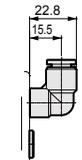
●  $\varnothing 6$  (6LX)



●  $\varnothing 6.4$  (6LXN)

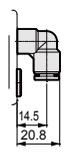


●  $\varnothing 8$  (8LX)

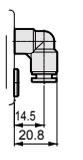


● Radial fitting (downward), plug on one side

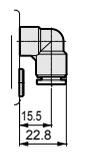
●  $\varnothing 6$  (6DX)



●  $\varnothing 6.4$  (6DXN)



●  $\varnothing 8$  (8DX)



#### MN4G2 supply and exhaust block

● Straight fitting

●  $\varnothing 8$  (8)



●  $\varnothing 10$  (10)



● Straight fitting, plug on one side

●  $\varnothing 8$  (8X)

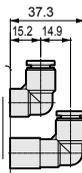


●  $\varnothing 10$  (10X)

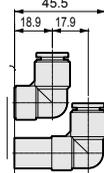


● Radial fitting (upward)

●  $\varnothing 8$  (8L)

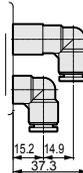


●  $\varnothing 10$  (10L)

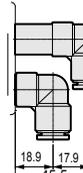


● Radial fitting (downward)

●  $\varnothing 8$  (8D)

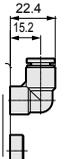


●  $\varnothing 10$  (10D)

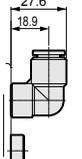


● Radial fitting (upward), plug on one side

●  $\varnothing 8$  (8LX)

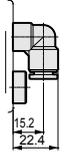


●  $\varnothing 10$  (10LX)

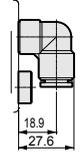


● Radial fitting (downward), plug on one side

●  $\varnothing 8$  (8DX)



●  $\varnothing 10$  (10DX)



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

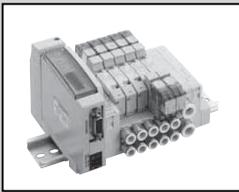
Pressure sensor

Flow rate sensor

Valve for air blow

Ending

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 block manifold  
Base piping

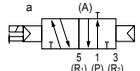
# MN4GB1/2-T\* Series

● Applicable cylinder bore size:  $\varnothing 20$  to  $\varnothing 80$

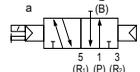


## JIS symbol

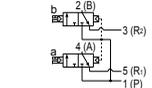
- 3-port valve
- 2-position single N.C.



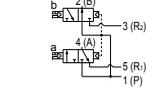
- 2-position single N.O.



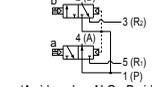
- Dual 3-port valve integrated  
(A side valve: N.C., B side valve: N.C.)



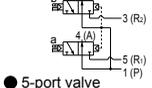
- (A side valve: N.C., B side valve: N.O.)



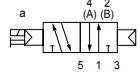
- (A side valve: N.O., B side valve: N.C.)



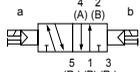
- (A side valve: N.O., B side valve: N.O.)



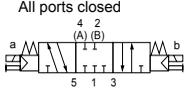
- 5-port valve
- 2-position single



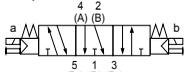
- 2-position double



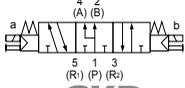
- 3-position
- All ports closed



- 3-position A/B/R connection



- 3-position P/A/B connection



## Structure and material restriction

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

## Manifold common specifications

Descriptions	
Manifold	Block manifold
Mounting method	DIN rail mount
Supply and exhaust method	Common supply/common exhaust (With internal exhaust check valve)
Pilot exhaust method	Main valve/pilot valve common exhaust (Pilot exhaust check valve integrated)
Piping direction	Base unit sideways
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*	T6*	T7*	T8*
Rated voltage V		24 VDC	12 VDC	24 VDC			
Voltage fluctuation range (*4)		±10%		+10%, -5%			
Holding current	Standard	0.017	0.034	0.017			
Power consumption W	Standard				0.4		
Thermal class		B					
Surge suppressor *5		Zener diode					
Indicator		LED					

- \*1: Use the turbine oil Class 1 ISO VG32 if lubricated. Excessive or intermittent lubrication results in unstable operation.
- \*2: The degree of protection is dust proof. The unit is not water proof. Avoid water drops or oil, etc. during use.
- \*3: Working pressure of the external pilot (option Code: K) is 0 to 0.7 MPa. Use the product within 0.2 to 0.7 MPa external pilot pressure.
- \*4: As for T6\*, T7\* 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.

## Individual specifications

Descriptions		MN3GB1/MN4GB1									
		T10	T11	T30	T50	T51	T52	T53	T60*/1	T70*/1	T8*/1/2
Max. station number	Standard wiring	16 stations	24 stations	24 stations	16 stations	18 stations	8 stations	24 stations	8/16 stations	8/16 stations	16/24 stations
	Double wiring	8 stations	12 stations	12 stations	8 stations	9 stations	4 stations	12 stations	4/8 stations	4/8 stations	8/16 stations
Max. number of solenoid	Standard wiring	16 points	24 points	24 points	16 points	18 points	8 points	24 points	8/16 points	8/16 points	16/32 points
	Double wiring	8 points	12 points	12 points	8 points	9 points	4 points	12 points	4/8 points	4/8 points	8/16 points
Port size	Millimeter fitting	Barbed fitting $\varnothing 1.8$ Push-in fitting $\varnothing 1.8, \varnothing 4, \varnothing 6$									
	P/R port fitting	Push-in fitting $\varnothing 6, \varnothing 8$									
	Inch fitting	Push-in fittings $\varnothing 1/8$ inch, $\varnothing 5/32$ inch									
	P/R port fitting	Push-in fittings $\varnothing 1/4$ inch, $\varnothing 5/16$ inch									

• For the weight, refer to page 262.

Descriptions		MN3GB2/MN4GB2									
		T10	T11	T30	T50	T51	T52	T53	T60*/1	T70*/1	T8*/1/2
Max. station number	Standard wiring	16 stations	20 stations	20 stations	16 stations	18 stations	8 stations	20 stations	8/16 stations	8/16 stations	16/20 stations
	Double wiring	8 stations	12 stations	12 stations	8 stations	9 stations	4 stations	12 stations	4/8 stations	4/8 stations	8/16 stations
Max. number of solenoid	Standard wiring	16 points	24 points	24 points	16 points	18 points	8 points	24 points	8/16 points	8/16 points	16/32 points
	Double wiring	8 points	12 points	12 points	8 points	9 points	4 points	12 points	4/8 points	4/8 points	8/16 points
Port size	Millimeter fitting	Push-in fitting $\varnothing 4, \varnothing 6, \varnothing 8$									
	P/R port fitting	Push-in fitting $\varnothing 8, \varnothing 10$									
	Inch fitting	Push-in fittings $\varnothing 1/4$ inch, $\varnothing 5/16$ inch 1/8NPT									
	P/R port fitting	Push-in fittings $\varnothing 5/16$ inch, $\varnothing 3/8$ inch									

• For the weight, refer to page 650.



### 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	
MN3GB1 MN4GB1	Dual 3-port valve integrated	0.86	0.35	1.0 (0.66)	0.15 (0.25)	
	2-position	1.0	0.30	1.1 (0.72)	0.11 (0.26)	
	3-position	All ports closed	0.96	0.32	1.0 —	0.14 —
		ABR connection PAB connection	0.96 1.1	0.29 0.31	1.2 (0.71) 1.0 —	0.11 (0.30) 0.15 —
MN3GB2 MN4GB2	Dual 3-port valve integrated	1.7	0.42	2.2 (1.6)	0.15 (0.19)	
	2-position	2.4	0.35	2.5 (1.7)	0.19 (0.19)	
	3-position	All ports closed	2.2	0.38	2.3 —	0.17 —
		ABR connection PAB connection	2.2 2.3	0.38 0.29	2.5 (1.7) 2.3 —	0.18 (0.20) 0.15 —

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.

### Reduced wiring specifications

Descriptions	T10	T11	T30	T50	T51	T52	T53
Type	Common terminal block M3 thread	Common terminal block Clamping	D sub-connector	20 pin flat cable connector (with power supply terminal)	20 pin flat cable connector (without power supply terminal)	10 pin flat cable connector (without power supply terminal)	28 pin flat cable connector (without power supply terminal)
Connector	—	—	D sub-connector 25 pin	MIL-C-83503 standard compliant pressure welding 20-pin socket	MIL-C-83503 standard compliant pressure welding 20-pin socket	MIL-C-83503 standard compliant pressure welding 10-pin socket	MIL-C-83503 standard compliant pressure welding 28-pin socket

### Serial transmission slave unit specifications

Descriptions	T6G1	T6C0 <sup>-1</sup>	T6C1 <sup>-1</sup>	T6A0 <sup>-2</sup>	T6A1 <sup>-2</sup>	T6J0 <sup>-2</sup>	T6J1 <sup>-2</sup>	T6E0	T6E1
Network name	CC-Link ver1.10	CompoBus/S		UNIWIRESYSTEM		UNIWIRESYSTEM		S-LINK	
Power supply voltage	Unit side	24 VDC ±10%			24 VDC +10%, -5%				
	Valve side	24 VDC +10%, -5%			Power supply terminal common				
Current consumption	Unit side	100 mA or less (when all output points are ON)			100 mA or less (when all output points are ON)				
	Valve side	15 mA or less (when all output points are OFF)			Load current is not included				
Output points	16 points	8 points	16 points	8 points	16 points	8 points	16 points	8 points	16 points
Occupied number	1 station	1 node address (8-points mode)	2 node address (8-points mode)	8 output points	16 output points	8 output points	16 output points	FAN-in: 3 *3	FAN-in: 3 *3
Operation display	LED (power supply and communication state)								
Output	NPN								

Descriptions	T7C0 <sup>-4</sup>	T7C1 <sup>-4</sup>	T7E0	T7E1	T7G1	T7L1 <sup>-5</sup>	T7D1	T7S1	T7SP1
Network name	CompoBus/S		S-LINK		CC-Link ver1.10	SAVE NET	DeviceNet <sup>6</sup> , *7	CompoNet	
Power supply voltage	Unit side	24 VDC ±10%			24 VDC +10%, -5%				
	Valve side	24 VDC +10%, -5%			Power supply terminal common				
Current consumption	Unit side	50 mA or less (when all output points are ON)	90 mA or less (when all output points are ON) Load current is not included		110 mA or less (when all output points are ON) Load current is not included			40 mA or less (when all output points are ON) Load current is not included	
	Valve side	15 mA or less (when all output points are OFF)	—		—			50 mA or less	65 mA or less (all points ON: 24 VDC) 95 mA or less (all points ON: 14 VDC)
Output points	8 points	16 points	8 points	16 points	16 points	16 points	16 points	16 points	
Occupied number	1 node address (8-points mode)	2 node address (8-points mode)	FAN-in: 3 *3	FAN-in: 3 *3	1 station	1 station	2 bytes	Word slave 1 node (16 points)	
Operation display	LED (power supply and communication state)								
Output	NPN							PNP	

Descriptions	T8G1	T8GP1	T8P1	T8PP1	T8EC1	T8ECP1	T8EN1	T8ENP1	
	T8G2	T8GP2	T8P2	T8PP2	T8EC2	T8ECP2	T8EN2	T8ENP2	
Communication system name	CC-Link ver1.10		PROFIBUS-DP(V0)		EtherCAT		EtherNet/IP		
Power supply voltage	Unit side	24 VDC ±10%							
	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)	—			
	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							
Output points	T8*1: 16 points T8*2: 32 points								
Occupied number	1 station								
Operation display	LED (power supply and communication state)								
Output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	

\*1 The long-distance communication mode is not available.

\*2 Compatible with 128 transmission points and a transmission distance of 200 m. Contact CKD for other specifications.

\*3 FAN-in indicates the capacity of the input from the D-G line. It is necessary to calculate the number of units to be connected.

\*4 The long-distance communication mode is available.

\*5 Compatible with a transmission bit rate of 128 bits and the transmission method of semi-duplicated communication. Contact CKD for other specifications.

\*6 Compatible with DeviceNet compliant networks (DLNK, etc.) as well.

\*7 Contact CKD for EDS file. EDS file: A file containing text for parameters for communication with masters of each company.

\*8 The communication power supply (V+ and V- of the DeviceNet cable) is insulated from the power supply terminals (unit power supply/valve power supply).

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

# MN4GB1/2-T\* Series

Reduced wiring block manifold; base piping

## How to order

Manifold model No.

**(MN4GB1) (1) (0) (R) (C6) (T30) (WH) (10) (3) (P70)**

● 3-port manifold model No.

**(MN3GB1) (66) (0) (R) (C6) (T30) (WH) (10) (3) (P70)**

● Discrete valve block with solenoid valve

**(N4GB1) (1) (0) (R) (C6) (A2N) (H) (3) (P70)**

● Discrete 3-port valve block with solenoid valve

**(N3GB1) (66) (0) (R) (C6) (A2N) (H) (3) (P70)**

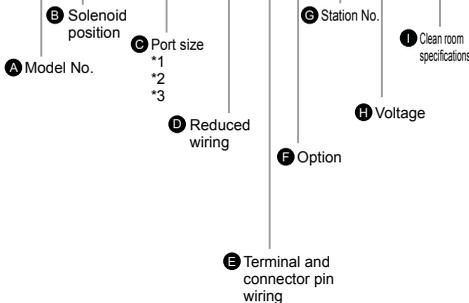
\* When a cable is required, refer to page 670 and specify the cable length for "L".  
\* When a cable is not required, leave the space blank.

● Discrete solenoid valve

**(4GB1) (1) (9) (R) (00) (A2N) (H) (3) (P70)**

● Discrete 3-port solenoid valve

**(3GB1) (66) (9) (R) (00) (A2N) (H) (3) (P70)**



## Model No.

Manifold		Discrete valve block with solenoid valve/Discrete solenoid valve	
Dual 3-port valve integrated	5-port valve	(N) 3GB2	(N) 4GB2
MN3GB1	MN4GB1		
MN3GB2	MN4GB2		

Code	Solenoid position	Content	MN3GB1	MN3GB2	MN4GB1	MN4GB2	(N) 3GB2	(N) 4GB1	(N) 4GB2
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 *4, 5	A side valve: Normally closed	●	●	●	●	●	●	●
67		B side valve: Normally closed	●	●	●	●	●	●	●
76	Dual 3-port valve integrated *4, 5	A side valve: Normally open	●	●	●	●	●	●	●
77		B side valve: Normally open	●	●	●	●	●	●	●
8	Mixed manifold (in case of multiple solenoid positions)		●	●	●	●	●	●	●

## Port size (ports A/B)

Type	Millimeter fitting/Rc thread	MN3GB1	MN3GB2	MN4GB1	MN4GB2	(N) 3GB2	(N) 4GB1	(N) 4GB2
CF	ø 1.8 barbed fitting (applicable tube UP-9102-**)	●	●	●	●	●	●	●
C18	ø 1.8 push-in fitting (applicable tube UP-9402-**)	●	●	●	●	●	●	●
C4	ø 4 push-in fitting	●	●	●	●	●	●	●
C6	ø 6 push-in fitting	●	●	●	●	●	●	●
C8	ø 8 push-in fitting	●	●	●	●	●	●	●
CL18	ø 1/8 radial facing-up push-in fitting (applicable tube UP-9402-**) *6	●	●	●	●	●	●	●
CL4	ø 4 radial facing-up push-in fitting *6	●	●	●	●	●	●	●
CL6	ø 6 radial facing-up push-in fitting *6	●	●	●	●	●	●	●
CL8	ø 8 radial facing-up push-in fitting *6	●	●	●	●	●	●	●
CD18	ø 1/8 radial facing-down push-in fitting (applicable tube UP-9402-**) *7	●	●	●	●	●	●	●
CD4	ø 4 radial facing-down push-in fitting	●	●	●	●	●	●	●
CD6	ø 6 radial facing-down push-in fitting	●	●	●	●	●	●	●
CD8	ø 8 radial facing-down push-in fitting	●	●	●	●	●	●	●
CX	Push-in fitting mix	●	●	●	●	●	●	●

Single side plug specifications	A port	B port	MN3GB1	MN3GB2	MN4GB1	MN4GB2	(N) 3GB2	(N) 4GB1	(N) 4GB2
CFNC	ø 1.8 barbed fitting (applicable tube UP-9102-**) *7		●	●	●	●	●	●	●
C18NC	ø 1.8 push-in fitting (applicable tube UP-9402-**) *7		●	●	●	●	●	●	●
C4NC	ø 4 push-in fitting	Plug	●	●	●	●	●	●	●
C6NC	ø 6 push-in fitting		●	●	●	●	●	●	●
C8NC	ø 8 push-in fitting		●	●	●	●	●	●	●
CFNO	ø 1.8 barbed fitting (applicable tube UP-9102-**) *7		●	●	●	●	●	●	●
C18NO	ø 1.8 push-in fitting (applicable tube UP-9402-**) *7		●	●	●	●	●	●	●
C4NO	ø 4 push-in fitting	Plug	●	●	●	●	●	●	●
C6NO	ø 6 push-in fitting		●	●	●	●	●	●	●
C8NO	ø 8 push-in fitting		●	●	●	●	●	●	●
CL18NC	ø 1/8 radial facing-up push-in fitting (applicable tube UP-9402-**) *7		●	●	●	●	●	●	●
CL4NC	ø 4 radial facing-up push-in fitting	Plug	●	●	●	●	●	●	●
CL6NC	ø 6 radial facing-up push-in fitting		●	●	●	●	●	●	●
CL8NC	ø 8 radial facing-up push-in fitting		●	●	●	●	●	●	●
CL18NO	ø 1/8 radial facing-up push-in fitting (applicable tube UP-9402-**) *7		●	●	●	●	●	●	●
CL4NO	ø 4 radial facing-up push-in fitting	Plug	●	●	●	●	●	●	●
CL6NO	ø 6 radial facing-up push-in fitting		●	●	●	●	●	●	●
CL8NO	ø 8 radial facing-up push-in fitting		●	●	●	●	●	●	●
CD18NC	ø 1/8 radial facing-down push-in fitting (applicable tube UP-9402-**) *7		●	●	●	●	●	●	●
CD4NC	ø 4 radial facing-down push-in fitting	Plug	●	●	●	●	●	●	●
CD6NC	ø 6 radial facing-down push-in fitting		●	●	●	●	●	●	●
CD8NC	ø 8 radial facing-down push-in fitting		●	●	●	●	●	●	●
CD18NO	ø 1/8 radial facing-down push-in fitting (applicable tube UP-9402-**) *7		●	●	●	●	●	●	●
CD4NO	ø 4 radial facing-down push-in fitting	Plug	●	●	●	●	●	●	●
CD6NO	ø 6 radial facing-down push-in fitting		●	●	●	●	●	●	●
CD8NO	ø 8 radial facing-down push-in fitting		●	●	●	●	●	●	●

Type	Inch fitting/inch thread	MN3GB1	MN3GB2	MN4GB1	MN4GB2	(N) 3GB2	(N) 4GB1	(N) 4GB2
C3N	ø 1/8 inch push-in fitting	●	●	●	●	●	●	●
C4N	ø 5/32 inch push-in fitting	●	●	●	●	●	●	●
C6N	ø 1/4 inch push-in fitting	●	●	●	●	●	●	●
C8N	ø 5/16 inch push-in fitting	●	●	●	●	●	●	●
CL3N	ø 1/8 inch radial facing-up push-in fitting *8	○	○	○	○	○	○	○
CL4N	ø 5/32 inch radial facing-up push-in fitting *8	○	○	○	○	○	○	○
CL6N	ø 1/4 inch radial facing-up push-in fitting *8	○	○	○	○	○	○	○
CL8N	ø 5/16 inch radial facing-up push-in fitting *8	○	○	○	○	○	○	○
CXN	Push-in fitting mix	●	●	●	●	●	●	●

Single side plug specifications	A port	B port	MN3GB1	MN3GB2	MN4GB1	MN4GB2	(N) 3GB2	(N) 4GB1	(N) 4GB2
C3NCN	ø 1/8 inch push-in fitting		●	●	●	●	●	●	●
C4NCN	ø 5/32 inch push-in fitting	Plug	●	●	●	●	●	●	●
C6NCN	ø 1/4 inch push-in fitting		●	●	●	●	●	●	●
C8NCN	ø 5/16 inch push-in fitting		●	●	●	●	●	●	●
C3NON	ø 1/8 inch push-in fitting		●	●	●	●	●	●	●
C4NON	ø 5/32 inch push-in fitting	Plug	●	●	●	●	●	●	●
C6NON	ø 1/4 inch push-in fitting		●	●	●	●	●	●	●
C8NON	ø 5/16 inch push-in fitting		●	●	●	●	●	●	●
CL3NCN	ø 1/8 inch radial facing-up push-in fitting		○	○	○	○	○	○	○
CL4NCN	ø 5/32 inch radial facing-up push-in fitting	Plug	○	○	○	○	○	○	○
CL6NCN	ø 1/4 inch radial facing-up push-in fitting		○	○	○	○	○	○	○
CL8NCN	ø 5/16 inch radial facing-up push-in fitting		○	○	○	○	○	○	○
CL3NON	ø 1/8 inch radial facing-up push-in fitting		○	○	○	○	○	○	○
CL4NON	ø 5/32 inch radial facing-up push-in fitting	Plug	○	○	○	○	○	○	○
CL6NON	ø 1/4 inch radial facing-up push-in fitting		○	○	○	○	○	○	○
CL8NON	ø 5/16 inch radial facing-up push-in fitting		○	○	○	○	○	○	○
00	Discrete valve for mounting base		●	●	●	●	●	●	●

## ⚠ Precautions for model selection

- A and B port plug specifications are available for the 2-position single only. Specify the P/R port bore size with the supply and exhaust block model No. in the manifold specifications sheet.
- A and B ports are the same size for radial push-in fitting mix (CX).
- For a discrete solenoid valve, select 00 for Port size.
- Select MN4GB\*80R when mixing with 4, 5-port valves. Further, select MN3GB\*80R when mixing with masking plate.
- Not compatible with combination with external pilot (K). Dimensions are the same as those of the respective 2-position double solenoid.
- Simultaneously select option "L" for types other than single solenoid.
- The push-in fitting cannot be mixed with the discrete valve's 4(A) or 2(B) port.
- Available only for single solenoids.

○ indicates specifications not available.

○ Custom order products. Contact CKD for details.

(Table of port sizes and wiring connections)

		Model No.					
		Manifold			Discrete valve block with solenoid valve/Discrete solenoid valve		
		Dual 3-port valve integrated	5-port valve				
		MN3GB1	MN3GB2	MN4GB1	MN4GB2	(N) 3GB1	(N) 4GB1
						(N) 3GB2	(N) 4GB2

Code	Content								
<b>D Reduced wiring (lamp and surge suppressor provided as standard) 12 VDC/24 VDC</b>									
T10	Common terminal block (M3 thread)	Left side specifications	●	●	●	●	●	●	●
T10R		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	Left side specifications	●	●	●	●	●	●	●
T50R	(with power supply terminal)	Right side specifications	●	●	●	●	●	●	●
T51	20 pin flat cable connector	Left side specifications	●	●	●	●	●	●	●
T51R	(without power supply terminal)	Right side specifications	●	●	●	●	●	●	●
T52	10 pin flat cable connector	Left side specifications	●	●	●	●	●	●	●
T52R	(without power supply terminal)	Right side specifications	●	●	●	●	●	●	●
T53	26 pin flat cable connector	Left side specifications	●	●	●	●	●	●	●
T53R	(without power supply terminal)	Right side specifications	●	●	●	●	●	●	●

<b>E Serial transmission (lamp and surge suppressor provided as standard) 24 VDC</b>									
T6A0	UNIWIRESYSTEM	NPN 8 points	●	●	●	●	●	●	●
T6A1		NPN 16 points	●	●	●	●	●	●	●
T6C0	CompoBus/S	NPN 8 points	●	●	●	●	●	●	●
T6C1		NPN 16 points	●	●	●	●	●	●	●
T6E0		NPN 8 points	●	●	●	●	●	●	●
T6E1	S-LINK	NPN 16 points	●	●	●	●	●	●	●
T6G1	CC-Link	NPN 16 points	●	●	●	●	●	●	●
T6J0		NPN 8 points	●	●	●	●	●	●	●
T6J1	UNIWIRESYSTEM	NPN 16 points	●	●	●	●	●	●	●
T7C0	CompoBus/S	NPN 8 points	●	●	●	●	●	●	●
T7C1		NPN 16 points	●	●	●	●	●	●	●
T7D1	DeviceNet (thin)	NPN 16 points	●	●	●	●	●	●	●
T7E0		NPN 8 points	●	●	●	●	●	●	●
T7E1	S-LINK (thin)	NPN 16 points	●	●	●	●	●	●	●
T7G1	CC-Link (thin)	NPN 16 points	●	●	●	●	●	●	●
T7L1	SAVE.NET (thin)	NPN 16 points	●	●	●	●	●	●	●
T7S1		NPN 16 points	●	●	●	●	●	●	●
T8P1	CompoNet (thin)	PNP 16 points	●	●	●	●	●	●	●
T8G1		NPN 16 points	●	●	●	●	●	●	●
T8G2	CC-Link	NPN 32 points	●	●	●	●	●	●	●
T8GP1	(thin)	PNP 16 points	●	●	●	●	●	●	●
T8GP2		PNP 32 points	●	●	●	●	●	●	●
T8P1		NPN 16 points	●	●	●	●	●	●	●
T8P2	PROFIBUS-DP	NPN 32 points	●	●	●	●	●	●	●
T8P1	(thin)	PNP 16 points	●	●	●	●	●	●	●
T8P2		PNP 32 points	●	●	●	●	●	●	●
T8EC1		NPN 16 points	●	●	●	●	●	●	●
T8EC2	EtherCAT	NPN 32 points	●	●	●	●	●	●	●
T8EC1	(thin)	PNP 16 points	●	●	●	●	●	●	●
T8EC2		PNP 32 points	●	●	●	●	●	●	●
T8EN1		NPN 16 points	●	●	●	●	●	●	●
T8EN2	EtherNet/IP	NPN 32 points	●	●	●	●	●	●	●
T8EN1	(thin)	PNP 16 points	●	●	●	●	●	●	●
T8EN2		PNP 32 points	●	●	●	●	●	●	●
A2N	Without lead wire (without socket)	With surge suppressor/lamp	●	●	●	●	●	●	●

<b>F Terminal and connector pin wiring</b>									
Blank	Standard wiring	*9	●	●	●	●	●	●	●
W	Double wiring	*9	●	●	●	●	●	●	●
W1	Double wiring (with single spare wiring)	*9, *10	●	●	●	●	●	●	●

<b>G Option</b>									
Blank	Non-locking and locking model shared manual override		●	●	●	●	●	●	●
M	Non-locking manual override		●	●	●	●	●	●	●
H	With exhaust check valve	*11	●	●	●	●	●	●	●
K	External pilot	*12	●	●	●	●	●	●	●
A	Ozone-cutting oil proof		●	●	●	●	●	●	●
S	Surgeless	*13	●	●	●	●	●	●	●
E	Low exoergic/energy-saving circuit	*13, *14	●	●	●	●	●	●	●
L	With piping adaptor		●	●	●	●	●	●	●
Q	Reduced wiring mail	*18	●	●	●	●	●	●	●
F	A/B port filter integrated	*15	●	●	●	●	●	●	●
Z1	Air supply spacer	*16	●	●	●	●	●	●	●
Z3	Exhaust spacer	*16	●	●	●	●	●	●	●

<b>H Station No.</b>									
1	1 station		●	●	●	●	●	●	●
to	10		●	●	●	●	●	●	●
24	24 stations (Max. station number of MN4GB2 is 20.)		●	●	●	●	●	●	●

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

<b>J Clean room specifications (*18, 19, 21)</b>									
	Structure	Material restriction							
P70	Exhaust treatment	—							
P74	Exhaust treatment	Copper-based/silicon-based/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 shown above.

### ⚠ Precautions for model selection

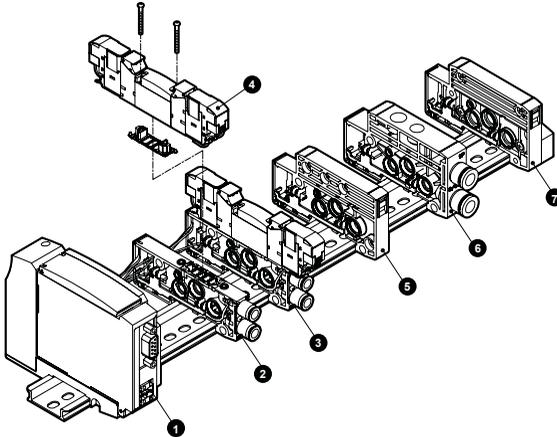
- \*9: Blank...Wired based on the type of valve used.  
W\*... All wired for double solenoid valves regardless of the type of valve used.
- \*10: Spare wiring (A type socket assembly) is included on the cap side for single types. A holder for retaining the socket assembly is included for single unit valves (A2N). Refer to page 681 for details.
- \*11: 3-position all ports closed and PAB connection are not provided with specifications (H) with the exhaust check valve. Refer to page 731 for details on the exhaust check valve.
- \*12: Contact CKD when using a vacuum with the external pilot (K).
- \*13: In addition, surgeless "S" and low exoergic/energy circuit "E" cannot be selected together.
- \*14: Applicable to surgeless specifications.
- \*15: P port is equipped with a filter as standard.
- \*16: Specify the spacer mounting position and quantity in manifold specifications sheet. Stacking of spacers is not possible. Combination with the masking plate is not possible. Cannot be selected together with radial push-in fitting (upward). Refer to pages 677 to 680 for details.
- \*17: When selecting the radial facing-up push-in fitting, 2-position single is only supported.
- \*18: A (ozone compatible) and (F) clean room specification P74 cannot be combined.
- \*19: Specifications which do not allow copper-based/silicon-based/halogen-based materials apply to the main valve section.
- \*20: P74 Series is a custom order product.

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)
Clear F.R.
Precision R
Press.purge 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

# MN4GB1/2-T\* Series

Reduced wiring block manifold; base piping

## Manifold components explanation and parts list



List of main components (refer to pages 666 to 682 for details)

No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
1	Electrical block	N4G1R-T8P1-P70/P74	5	Partition block	N4G1R-S-P70/P74
2	Discrete valve block with solenoid valve	N4GB1R-V2-C6-P70/P74	6	Supply and exhaust block	N4G1R-Q-8-P70/P74
3	Discrete valve block with solenoid valve	N4GB120R-C6-A2NH-3-P70/P74	7	End block R	N4G1R-ER-P70/P74
4	Solenoid valve body	4GB129R-00-A2NH-3-P70/P74			

### B type reduced wiring weight

#### 4GB1

Parts name	Model No.	Weight	Parts name	Model No.	Weight	Parts name	Model No.	Weight
Valve block with solenoid valve	N4GB110R-C6-A2N-3	69	Supply and exhaust block	N4G1R-Q-8	58	Electrical block	N4G1R-T10(R)	207
	N4GB120R-C6-A2N-3	88	block	N4G1R-QK-8	60		N4G1R-T30(R)	165
	N4GB1½ 0R-C6-A2N-3	89	End block	N4G1R-E*	60		N4G1R-T50(R)	167
	N3GB1660R-C6-A2N-3	88	Partition block	N4G1R-S	45		N4G1R-T6*	295
Valve block with masking plate	N4GB1R-MP*-C6	37				N4G1R-T7*	203	
						N4G1R-T8*	229	

#### 4GB2

Parts name	Model No.	Weight	Parts name	Model No.	Weight	Parts name	Model No.	Weight
Valve block with solenoid valve	N4GB210R-C8-A2N-3	130	Supply and exhaust block	N4G2R-Q-10	83	Electrical block	N4G2R-T10(R)	223
	N4GB220R-C8-A2N-3	149	block	N4G2R-QK-10	85		N4G2R-T30(R)	182
	N4GB2½ 0R-C8-A2N-3	160	End block	N4G2R-E*	84		N4G2R-T50(R)	184
	N4GB2660R-C8-A2N-3	149	Partition block	N4G2R-S	60		N4G2R-T6*	312
Valve block with masking plate	N4GB2R-MP*-C8	69				N4G2R-T7*	204	
						N4G2R-T8*	242	

### Parts list

Application	Parts name	Model No.	Application	Parts name	Model No.	
Speed controller Auxiliary valve Fitting/tube Clean air unit Pressure sensor Flow rate sensor Valve for air blow	ø 1.8 barbed	4G1R-JOINT-CF-P70	Valve 4G2	ø 1/4 inch elbow	*1 4G2R-JOINT-CL6N-P70	
	ø 1.8 straight	4G1R-JOINT-C18-P70		ø 5/16 inch elbow	*1 4G2R-JOINT-CL8N-P70	
	ø 4 straight	4G1R-JOINT-C4-P70		Plug cartridge	4G2R-JOINT-CPG-P70	
	Electro-pneumatic R	ø 6 straight	4G1R-JOINT-C6-P70	Valve	Coil assembly	4GR-A2N-(*)-COIL-(*)-P70
		ø 1.8 elbow	4G1R-JOINT-CL18, CLL18-P70			*2: Ozon/cutting oil proof (blank, A) Surgeless (S) Low exoergic/energy-saving circuit (E)
		ø 4 elbow	4G1R-JOINT-CL4, CLL4-P70			*3: Voltage (1, 3, 4)
		ø 6 elbow	4G1R-JOINT-CL6, CLL6-P70			
		ø 1/8 inch straight	4G1R-JOINT-C3N-P70			
		ø 5/32 inch straight	4G1R-JOINT-C4N-P70			
		Pressure sensor Flow rate sensor Valve for air blow	ø 1/8 inch elbow	*1 4G1R-JOINT-CL3N-P70	Manifold	Expansion socket assembly (Details on page 737)
ø 5/32 inch elbow			*1 4G1R-JOINT-CL4N-P70	b side for solenoid N4GR-RELAY-SOCKET- (Selection No.)-P70		
Plug cartridge			4G1R-JOINT-CPG-P70			
Ending			ø 4 straight	4G2R-JOINT-C4-P70		
	ø 6 straight		4G2R-JOINT-C6-P70			
	ø 8 straight		4G2R-JOINT-C8-P70			
	ø 6 elbow		4G2R-JOINT-CL6, CLL6-P70			
	ø 8 elbow		4G2R-JOINT-CL8, CLL8-P70			
	ø 1/4 inch straight		4G2R-JOINT-C6N-P70			
	ø 5/16 inch straight		4G2R-JOINT-C8N-P70			

\*1: This is a custom order product.

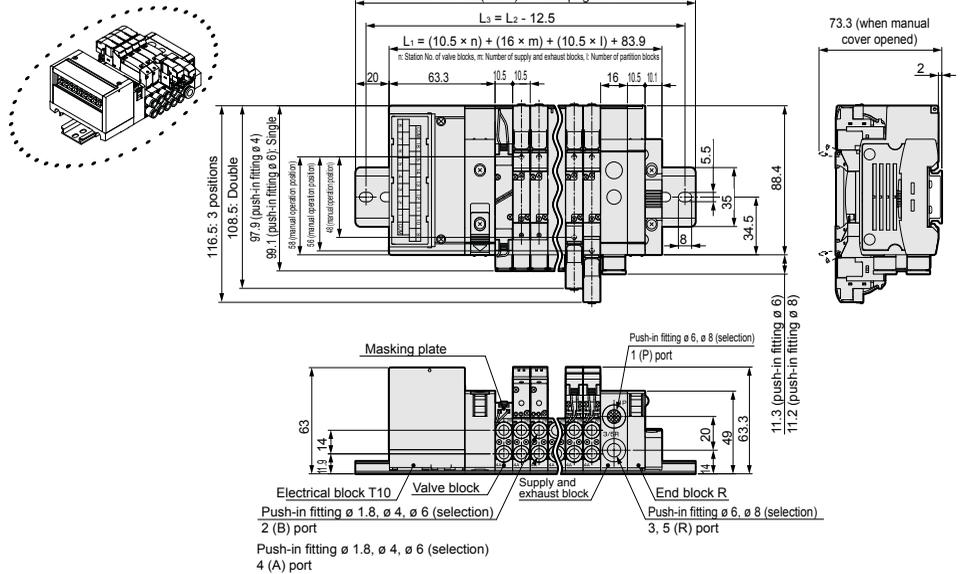
### Dimensions



#### MN4GB1-P7\*

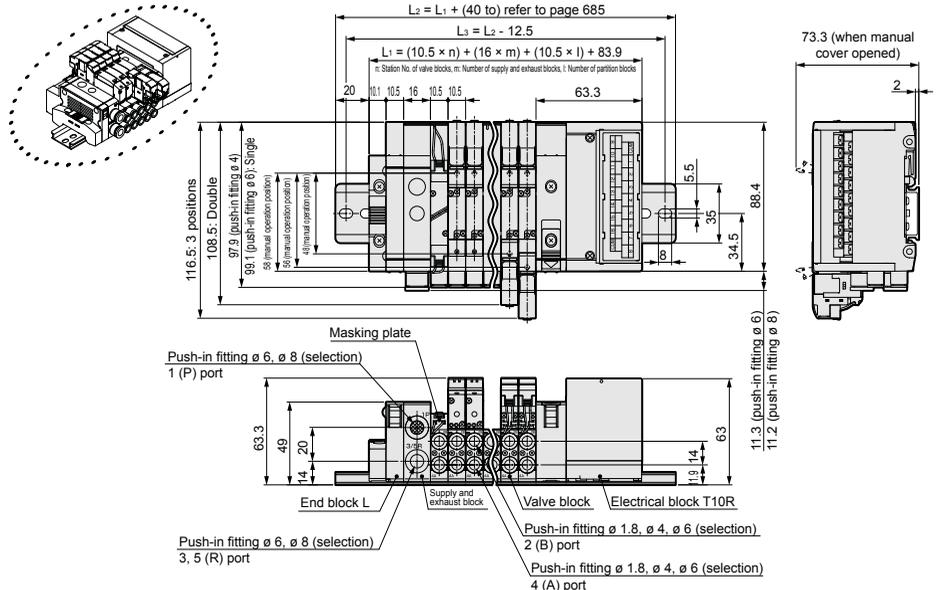
- Common terminal block (M3 thread) left side (T10)  
Note: Clamping (T11) is also available.  
The dimensions are the same as the T10.

Note: Dual 3-port valve integrated will have the same dimensions as the double model.



- Common terminal block (M3 thread) right side (T10R)  
Note: Clamping (T11R) is also available. The dimensions are the same as the T10R.

Note: Refer to page 660 for dimensions of the radial push-in fitting.



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

# MN4GB2-T10 Series

Reduced wiring block manifold; base piping

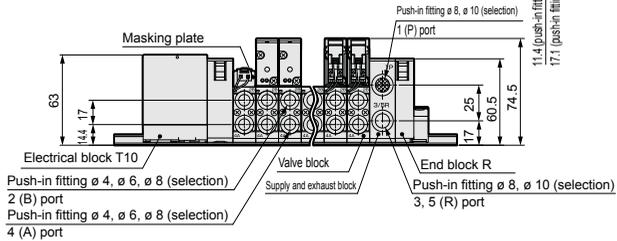
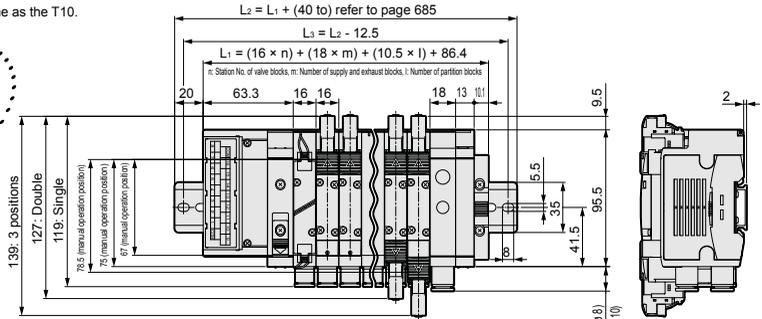
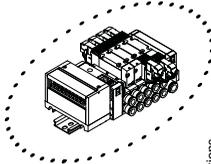
## Dimensions



### MN4GB2-P7\*

#### ● Common terminal block (M3 thread) left side (T10)

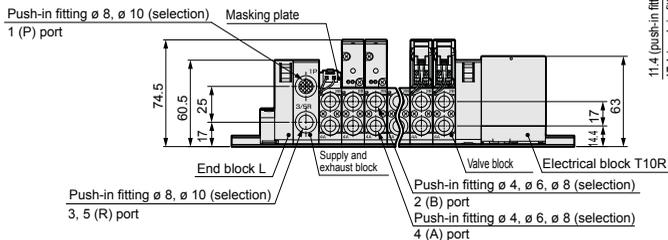
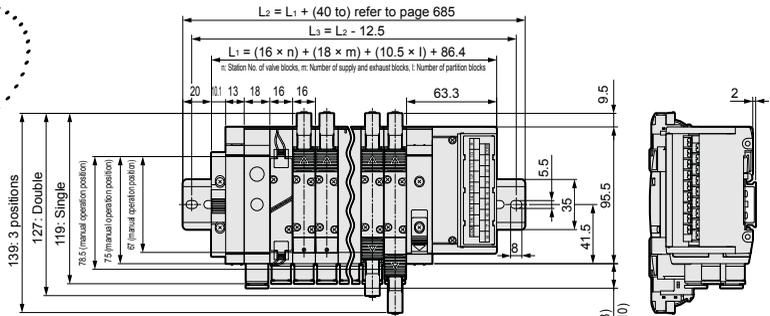
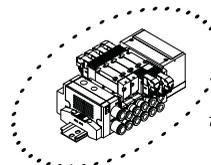
Note: Clamping (T11) is also available. The dimensions are the same as the T10.



#### ● Common terminal block (M3 thread) right side (T10R)

Note: Clamping (T11R) is also available. The dimensions are the same as the T10R.

Note: Refer to page 662 for dimensions of the radial push-in fitting.



# MN4GB1-T30 Series

Reduced wiring block manifold; base piping

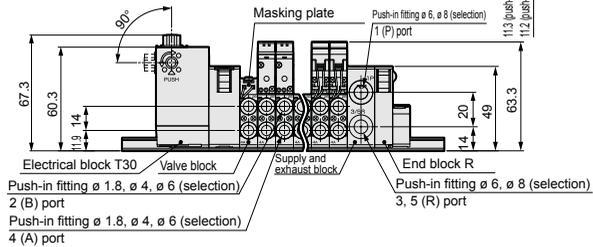
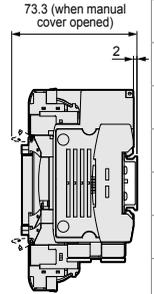
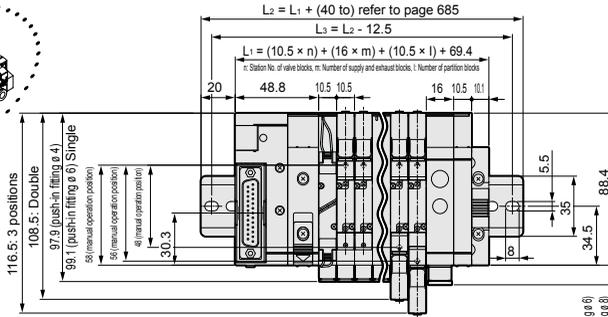
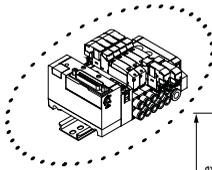
## Dimensions



### MN4GB1-P7\*

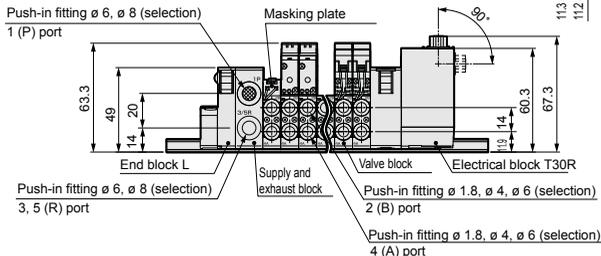
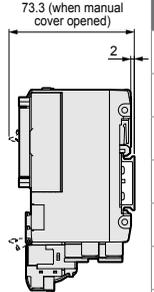
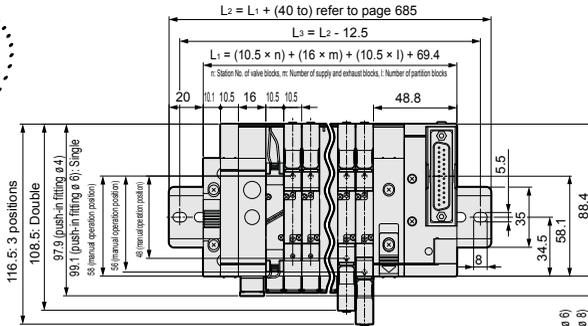
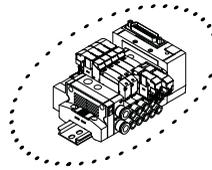
● D sub-connector left side (T30)

Note: Dual 3-port valve integrated will have the same dimensions as the double model.



● D sub-connector right side (T30R)

Note: Refer to page 660 for dimensions of the radial push-in fitting.



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

# MN4GB2-T30 Series

Reduced wiring block manifold; base piping

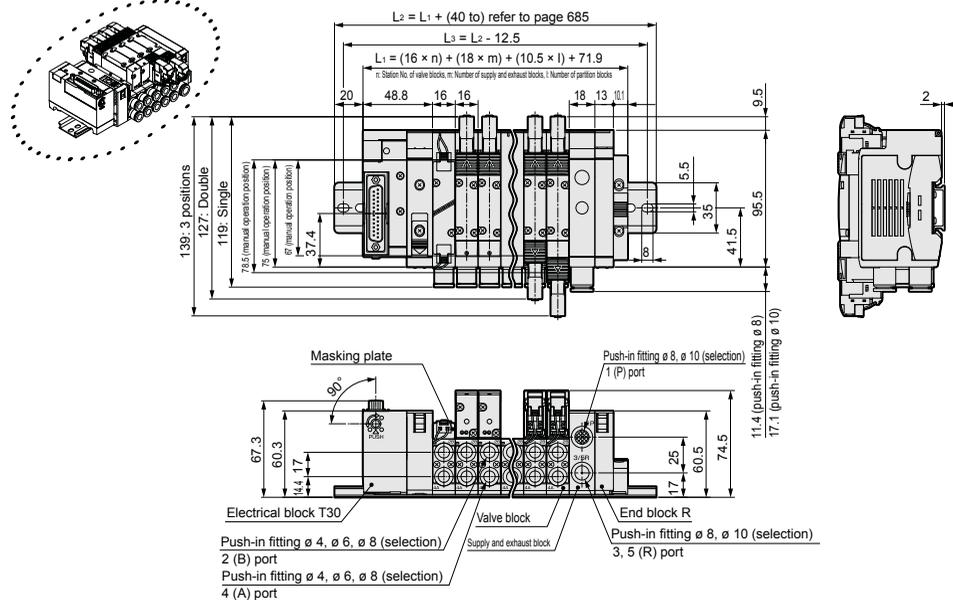
## Dimensions



### MN4GB2-P7\*

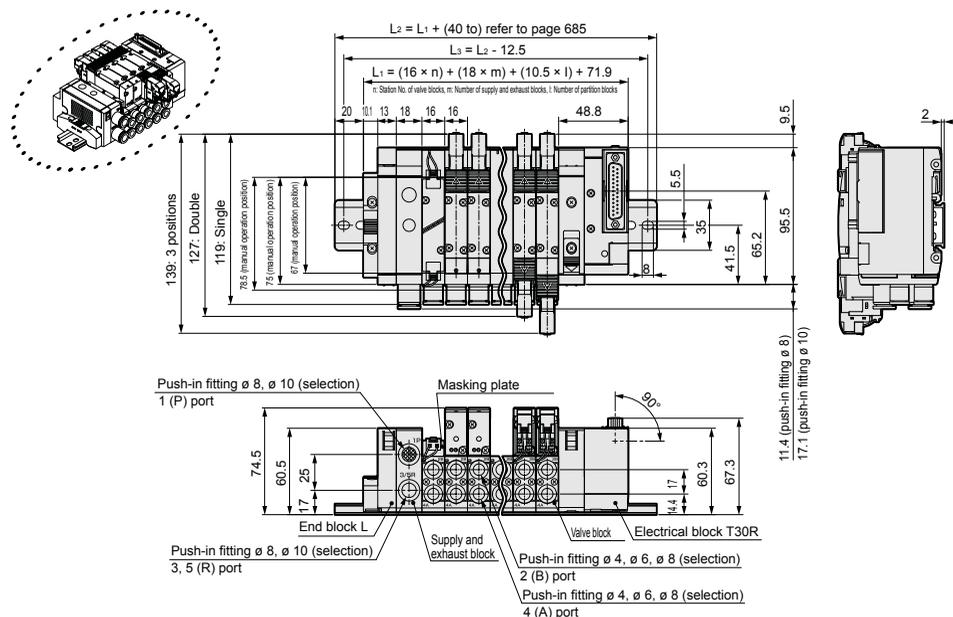
● D sub-connector left side (T30)

Note: Dual 3-port valve integrated will have the same dimensions as the double model.



● D sub-connector right side (T30R)

Note: Refer to page 662 for dimensions of the radial push-in fitting.



### Dimensions

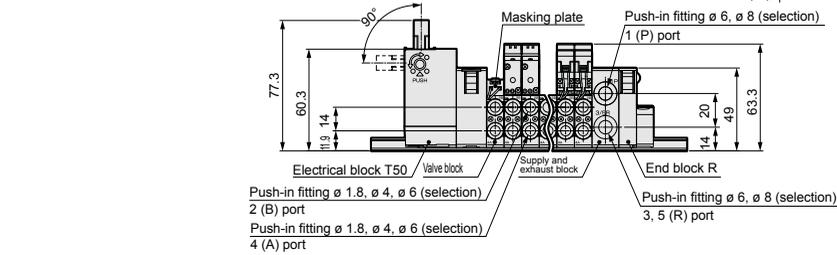
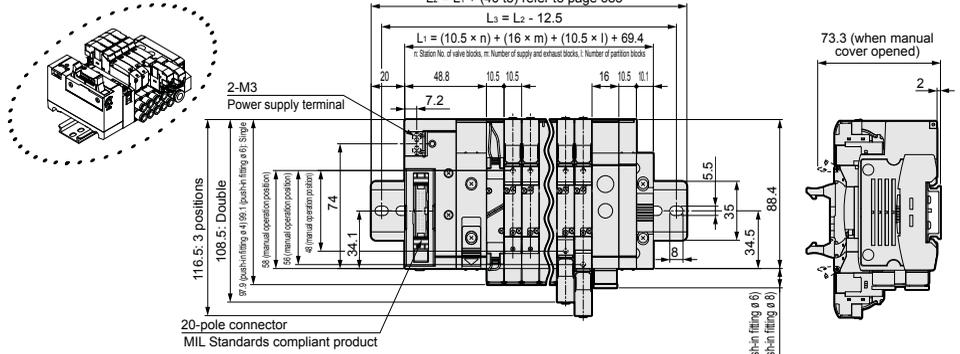


### MN4GB1-P7\*

● Flat cable connector left side (T50) with power supply terminal

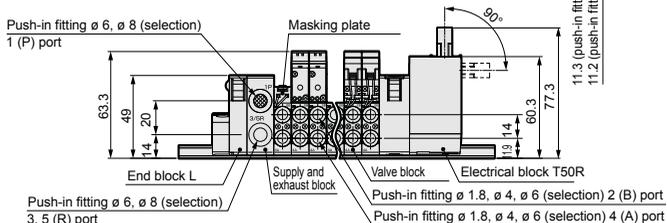
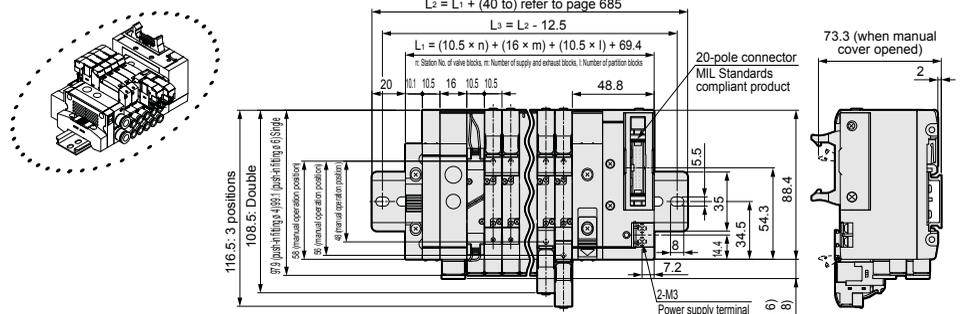
Note 1: The T51, T52, and T53 are also available as flat cable connector models. The dimensions are the same as the T50.

Note 2: Dual 3-port valve integrated will have the same dimensions as the double model.



● Flat cable connector right side (T50R) with power supply terminal

Note: Refer to page 660 for dimensions of the radial push-in fitting.



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

# MN4GB2-T50 Series

Reduced wiring block manifold; base piping

## Dimensions

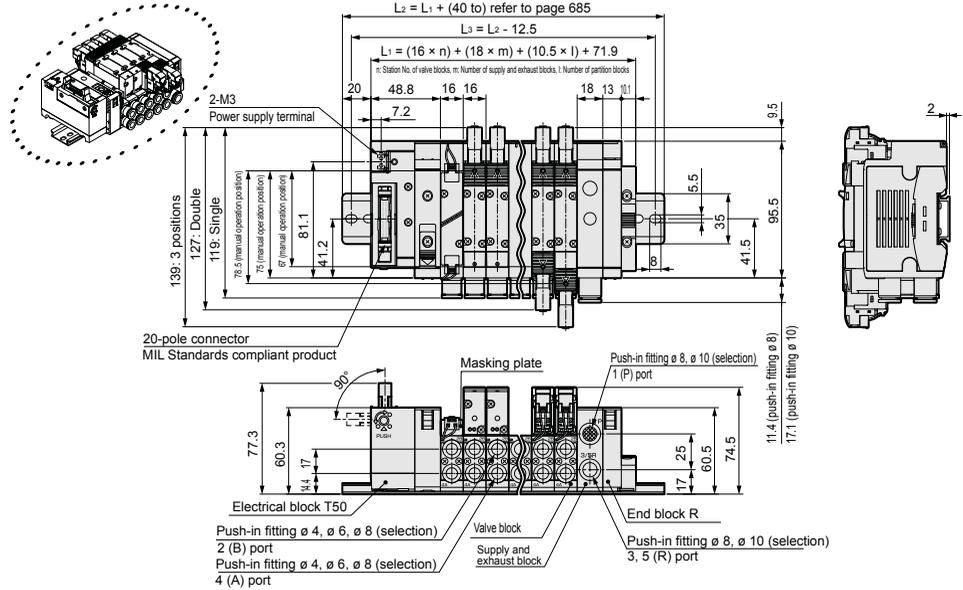


### MN4GB2-P7\*

● Flat cable connector left side with power supply terminal (T50)

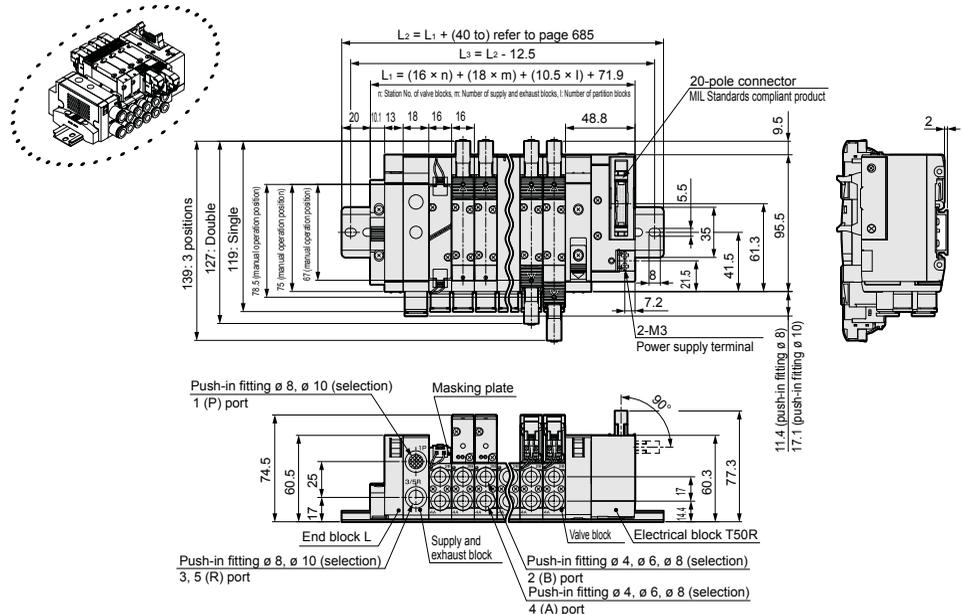
Note 1: The T51, T52, and T53 are also available as flat cable connector models. The dimensions are the same as the T50.

Note 2: Dual 3-port valve integrated will have the same dimensions as the double model.



● Flat cable connector right side with power supply terminal (T50R)

Note: Refer to page 662 for dimensions of the radial push-in fitting.



# MN4GB1/2-T6\* Series

Reduced wiring block manifold; base piping

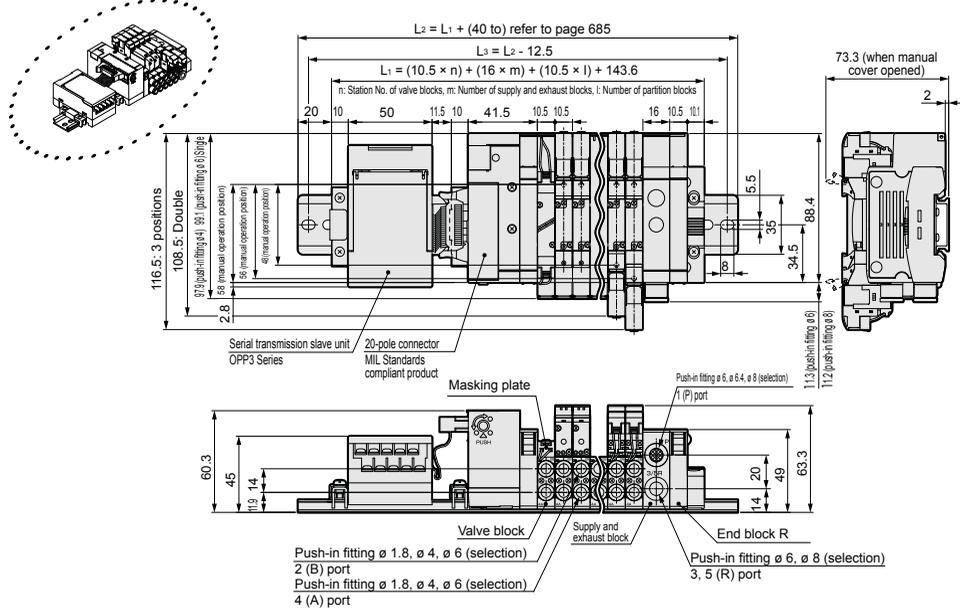
## Dimensions



### MN4GB1-P7\*

- Serial transmission (T6\*)

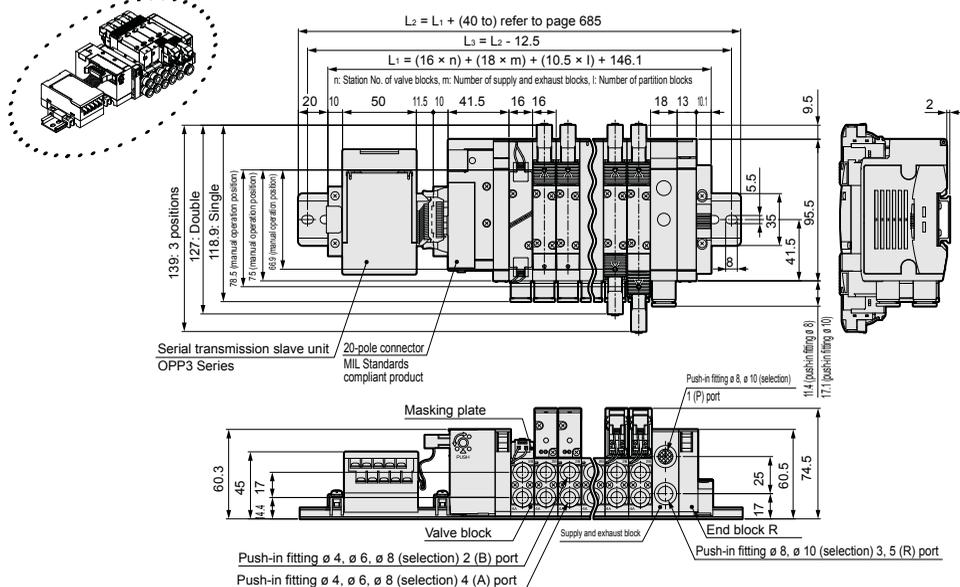
Note: Dual 3-port valve integrated will have the same dimensions as the double model.



### MN4GB2-P7\*

- Serial transmission (T6\*)

Note: Refer to pages 660 and 662 for dimensions of the radial push-fitting.



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)
Clear F.R
Precision R
Press.purge
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

# MN4GB1/2-T7\* Series

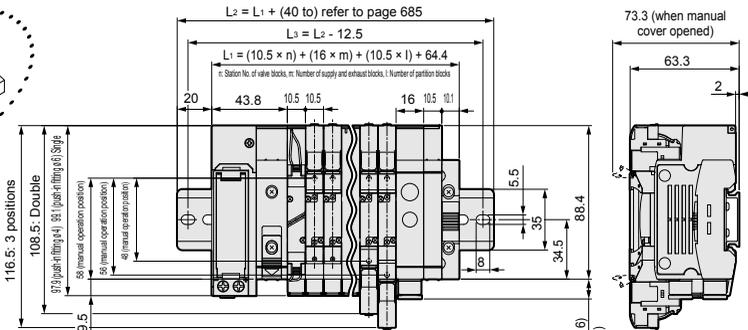
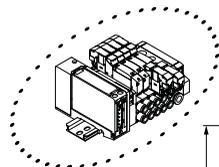
Reduced wiring block manifold; base piping

## Dimensions

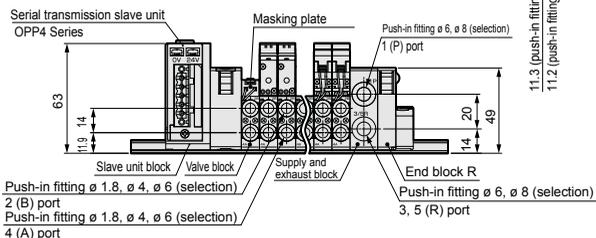
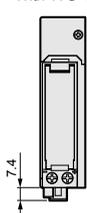
### MN4GB1-P7\*

● Thin serial transmission (T7\*)

Note: Dual 3-port valve integrated will have the same dimensions as the double model.



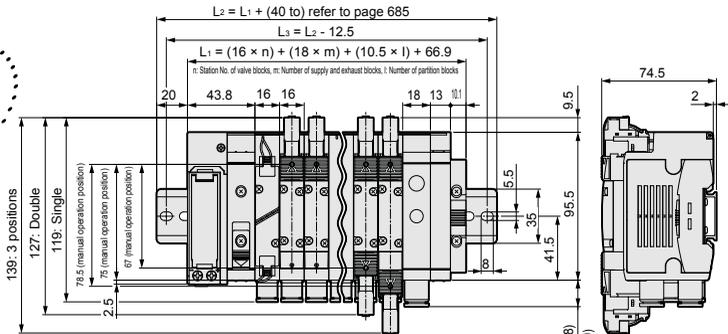
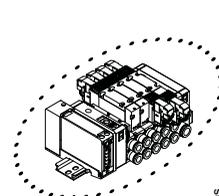
With T7S\*1



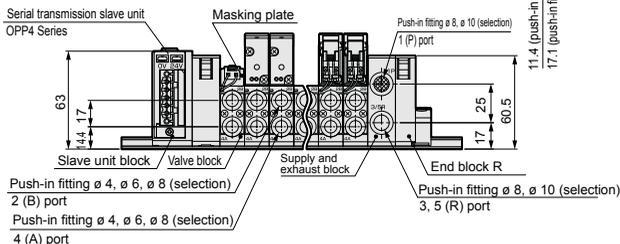
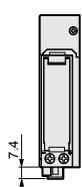
### MN4GB2-P7\*

● Thin serial transmission (T7\*)

Note: Refer to pages 660 and 662 for dimensions of the radial push-in fitting.



With T7S\*1



# MN4GB1/2-T8\* Series

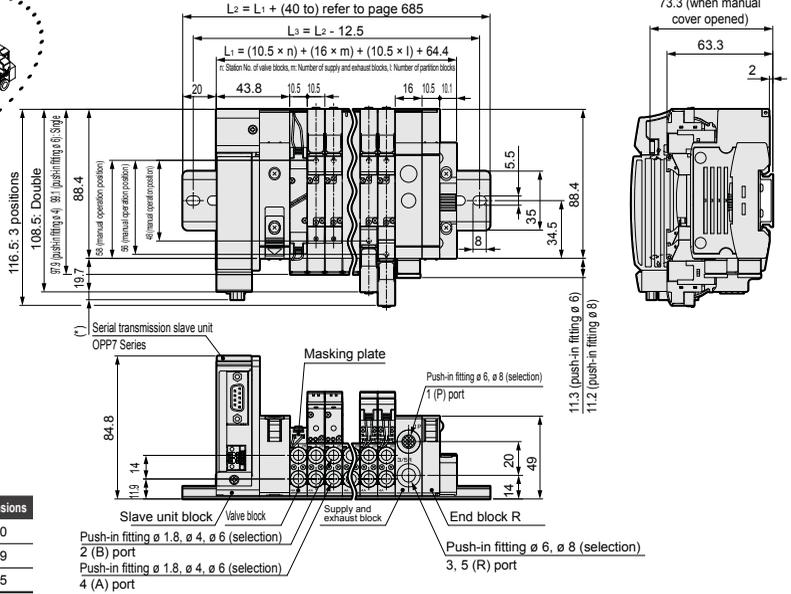
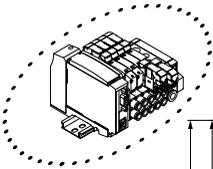
Reduced wiring block manifold; base piping

## Dimensions



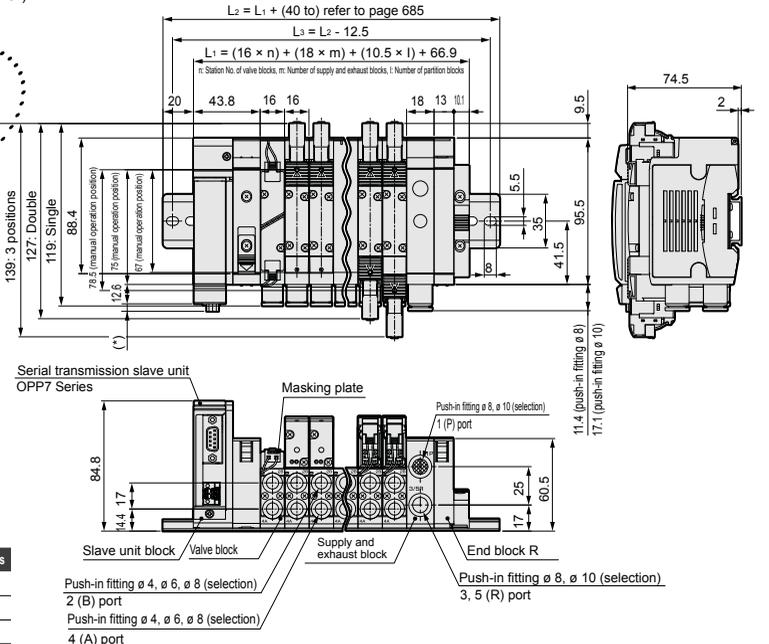
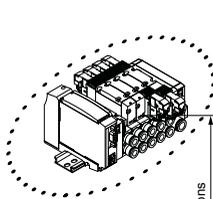
### MN4GB1-P7\*

● Thin serial transmission (T8\*)



### MN4GB2-P7\*

● Thin serial transmission (T8\*)



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

# MN4GB1/2-T\* Series

## Dimensions

### MN4GB1 Valve block

● Straight fitting

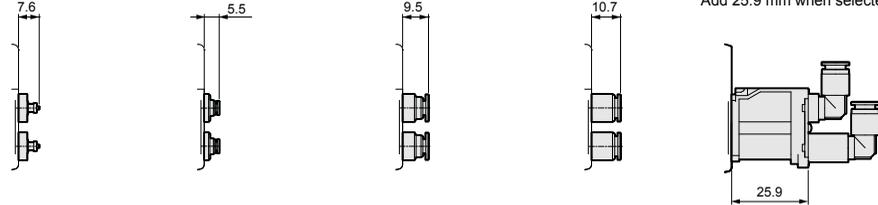
●  $\varnothing$  1.8 (CF)

●  $\varnothing$  1.8 (C18)

●  $\varnothing$  4 (C4)

●  $\varnothing$  6 (C6)

● Option L (with piping adaptor)  
Add 25.9 mm when selected.



● Straight fitting, plug on one side

●  $\varnothing$  1.8 (CFNC)

●  $\varnothing$  1.8 (C18NC)

●  $\varnothing$  4 (C4NC)

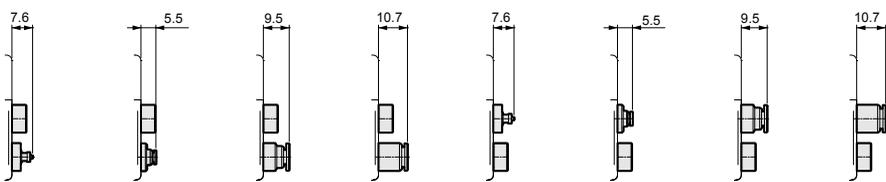
●  $\varnothing$  6 (C6NC)

●  $\varnothing$  1.8 (CFNO)

●  $\varnothing$  1.8 (C18NO)

●  $\varnothing$  4 (C4NO)

●  $\varnothing$  6 (C6NO)



● Radial fitting (upward)

●  $\varnothing$  1.8 (CL18)

●  $\varnothing$  4 (CL4)

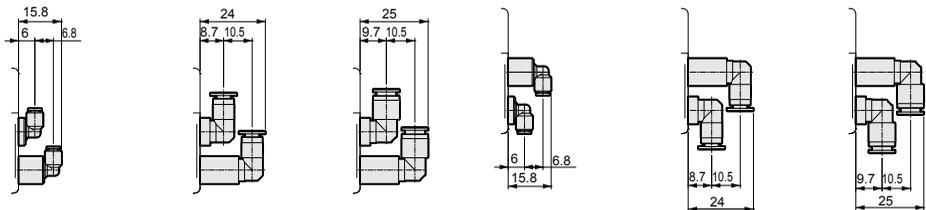
●  $\varnothing$  6 (CL6)

● Radial fitting (downward)

●  $\varnothing$  1.8 (CD18)

●  $\varnothing$  4 (CD4)

●  $\varnothing$  6 (CD6)



● Radial fitting (upward), plug on one side

●  $\varnothing$  1.8 (CL18NC)

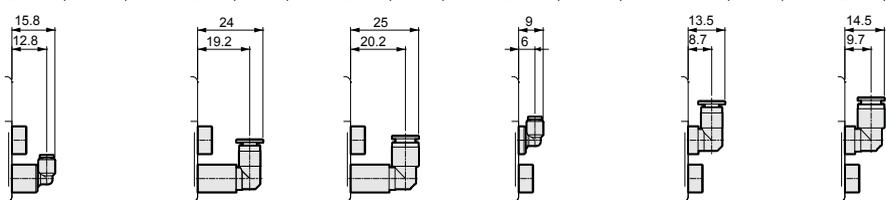
●  $\varnothing$  4 (CL4NC)

●  $\varnothing$  6 (CL6NC)

●  $\varnothing$  1.8 (CL18NO)

●  $\varnothing$  4 (CL4NO)

●  $\varnothing$  6 (CL6NO)



● Radial fitting (downward), plug on one side

●  $\varnothing$  1.8 (CD18NC)

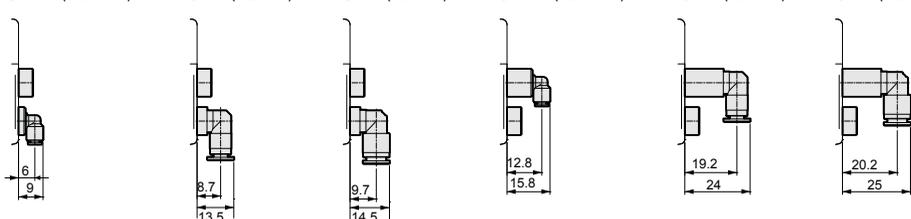
●  $\varnothing$  4 (CD4NC)

●  $\varnothing$  6 (CD6NC)

●  $\varnothing$  1.8 (CD18NO)

●  $\varnothing$  4 (CD4NO)

●  $\varnothing$  6 (CD6NO)

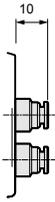


## Dimensions

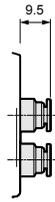
### MN4GB1 Valve block

● Straight fitting

●  $\varnothing$  1/8 inch (C3N)

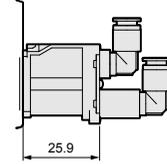


●  $\varnothing$  5/32 inch (C4N)



● Option L (with piping adaptor)

Add 25.9 mm when selected.

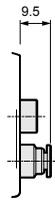


● Straight fitting, plug on one side

●  $\varnothing$  1/8 inch (C3NCN)



●  $\varnothing$  5/32 inch (C4NCN)



●  $\varnothing$  1/8 inch (C3NON)

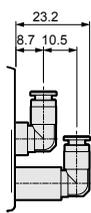


●  $\varnothing$  5/32 inch (C4NON)

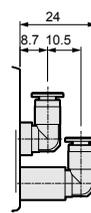


● Radial fitting (upward)

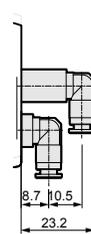
●  $\varnothing$  1/8 inch (CL3N)



●  $\varnothing$  5/32 inch (CL4N)



●  $\varnothing$  1/8 inch (CD3N)

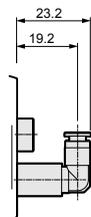


●  $\varnothing$  5/32 inch (CD4N)

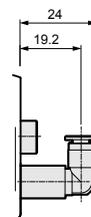


● Radial fitting (upward), plug on one side

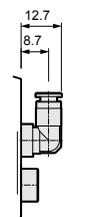
●  $\varnothing$  1/8 inch (CL3NCN)



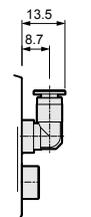
●  $\varnothing$  5/32 inch (CL4NCN)



●  $\varnothing$  1/8 inch (CL3NON)



●  $\varnothing$  5/32 inch (CL4NON)

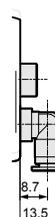


● Radial fitting (downward), plug on one side

●  $\varnothing$  1/8 inch (CD3NCN)



●  $\varnothing$  5/32 inch (CD4NCN)



●  $\varnothing$  1/8 inch (CD3NON)



●  $\varnothing$  5/32 inch (CD4NON)



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

# MN4GB1/2-T\* Series

## Dimensions

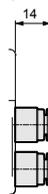
### MN4GB2 Valve block

● Straight fitting

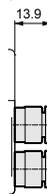
●  $\varnothing 4$  (C4)



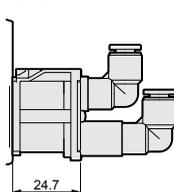
●  $\varnothing 6$  (C6)



●  $\varnothing 8$  (C8)



● Option L (with piping adaptor)  
Add 24.7 mm when selected.



● Straight fitting, plug on one side

●  $\varnothing 4$  (C4NC)



●  $\varnothing 6$  (C6NC)



●  $\varnothing 8$  (C8NC)



●  $\varnothing 4$  (C4NO)



●  $\varnothing 6$  (C6NO)

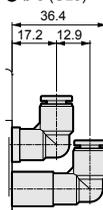


●  $\varnothing 8$  (C8NO)

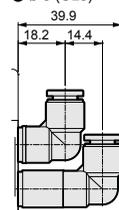


● Radial fitting (upward)

●  $\varnothing 6$  (CL6)

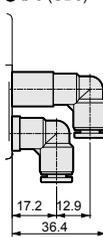


●  $\varnothing 8$  (CL8)

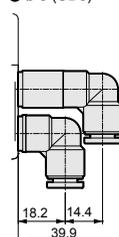


● Radial fitting (downward)

●  $\varnothing 6$  (CD6)

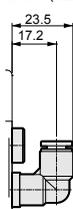


●  $\varnothing 8$  (CD8)

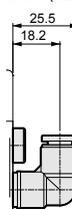


● Radial fitting (upward), plug on one side

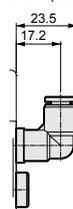
●  $\varnothing 6$  (CL6NC)



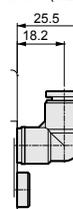
●  $\varnothing 8$  (CL8NC)



●  $\varnothing 6$  (CL6NO)

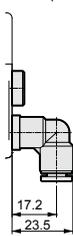


●  $\varnothing 8$  (CL8NO)

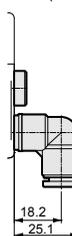


● Radial fitting (downward), plug on one side

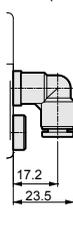
●  $\varnothing 6$  (CD6NC)



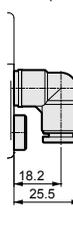
●  $\varnothing 8$  (CD8NC)



●  $\varnothing 6$  (CD6NO)



●  $\varnothing 8$  (CD8NO)



## Dimensions

### MN4GB2 Valve block

● Straight fitting

●  $\varnothing$  1/4 inch (C6N)

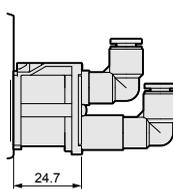


●  $\varnothing$  5/16 inch (C8N)



● Option L (with piping adaptor)

Add 24.7 mm when selected.



● Straight fitting, plug on one side

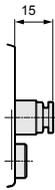
●  $\varnothing$  1/4 inch (C6NNC)



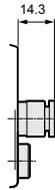
●  $\varnothing$  5/16 inch (C8NNC)



●  $\varnothing$  1/4 inch (C6NON)

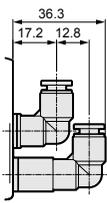


●  $\varnothing$  5/16 inch (C8NON)

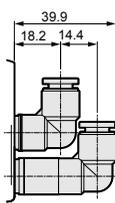


● Radial fitting (upward)

●  $\varnothing$  1/4 inch (CL6N)

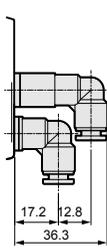


●  $\varnothing$  5/16 inch (CL8N)

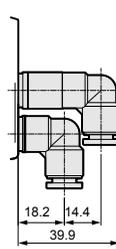


● Radial fitting (downward)

●  $\varnothing$  1/8 inch (CD6N)

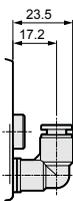


●  $\varnothing$  5/32 inch (CD8N)

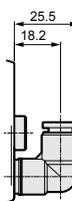


● Radial fitting (upward), plug on one side

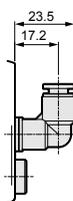
●  $\varnothing$  1/4 inch (CL6NNC)



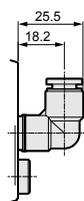
●  $\varnothing$  5/16 inch (CL8NNC)



●  $\varnothing$  1/4 inch (CL6NON)

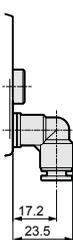


●  $\varnothing$  5/16 inch (CL8NON)

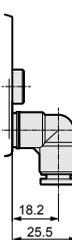


● Radial fitting (downward), plug on one side

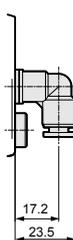
●  $\varnothing$  1/4 inch (CD6NNC)



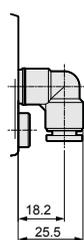
●  $\varnothing$  5/16 inch (CD8NNC)



●  $\varnothing$  1/4 inch (CD6NON)



●  $\varnothing$  5/16 inch (CD8NON)



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