

# MN4GB Series

## Block configuration

### 4GA/B Block manifold: Block configuration

M4GA/B As units can be freely assembled, it is easy to change the number of stations, perform maintenance, etc.

MN4GA/B

4GA/B  
(master)

#### ● Valve block with solenoid valve

(1) The types of solenoid valve required can be arranged on a DIN rail at the number of stations required.

However, the number of stations depends on the wiring method. (Refer to page 386.)

(2) Solenoid valves are numbered 1, 2, 3... from the left with the fitting in front.

4GB  
With sensor

4GD/E

#### ● Supply and exhaust block

(1) At the connecting part of each block, a number of blocks can be freely connected.

(2) Select internal or external pilot according to the solenoid valve.

M4GD/E

MN4GD/E

4GA4/B4

#### ● End block

(1) Install on both sides for individual wiring specifications.

(2) Install only on wiring block opposite side for reduced wiring specifications.

MN3E  
MN4E

W4GA/B2

#### ● Partition block

(1) Install in combination with supply and exhaust blocks for multi-pressure specifications.

W4GB4

MN3S0  
MN4S0

#### ● Mixed block

(1) Install when combining 4G1 and 4G2 as a mix on the same DIN rail.

This will have the effect of reduced piping.

\*Note 4G1 on the left side of the mixed block and 4G2 on the right side.

4SA/B0

4KA/B

4KA/B  
(master)

4F

4F  
(master)

PV5G  
GMF

PV5  
GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP  
NVP

4G\*0EJ

4F\*0EX

4F\*0E

HMV  
HSV

2QV  
3QV

SKH

Silencer

TotAirSys  
(Total Air)

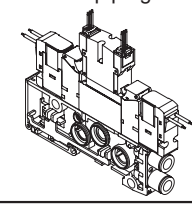
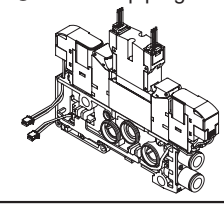
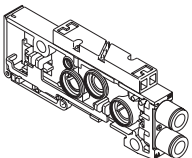
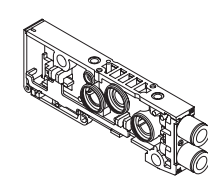
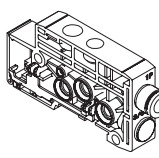
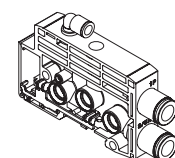
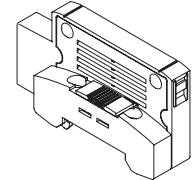
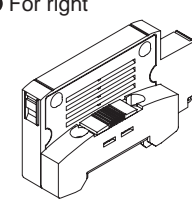
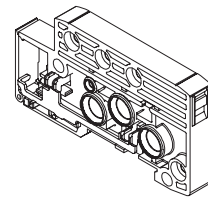
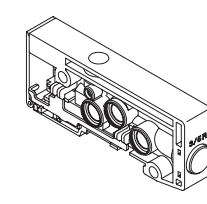
TotAirSys  
(Gamma)

Ending

### Block manifold configuration

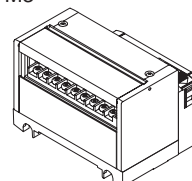
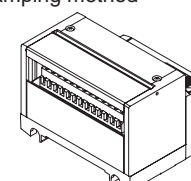
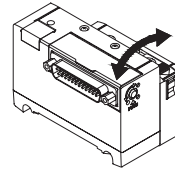
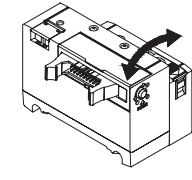
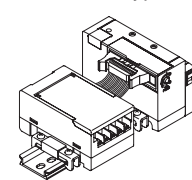
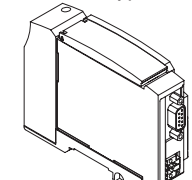
#### Piping

#### Piping block

<p><b>A</b> Discrete valve block with solenoid valve</p> <ul style="list-style-type: none"> <li>● For base piping individual wiring</li> </ul> 	<ul style="list-style-type: none"> <li>● For base piping reduced wiring</li> </ul> 
<p><b>B</b> Discrete valve block with masking plate</p> <ul style="list-style-type: none"> <li>● For base piping</li> </ul> 	<p><b>C</b> Discrete valve block</p> <ul style="list-style-type: none"> <li>● For base piping</li> </ul> 
<p><b>D</b> Supply and exhaust block</p> <ul style="list-style-type: none"> <li>● For internal pilot</li> <li>● For external pilot</li> </ul>  	<p><b>E</b> End block</p> <ul style="list-style-type: none"> <li>● For left</li> <li>● For right</li> </ul>  
<p><b>F</b> Partition block</p> 	<p><b>G</b> Mixed block</p> 

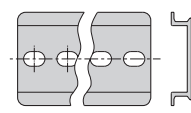
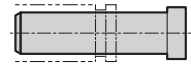
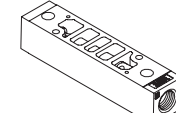
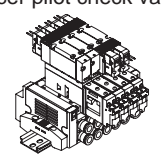
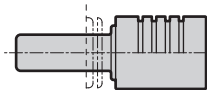
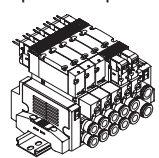
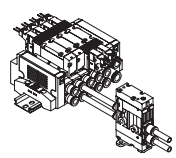
#### Wiring

#### Wiring block

<p><b>H</b> Common terminal block</p> <ul style="list-style-type: none"> <li>● M3</li> <li>● Clamping method</li> </ul>  	<p><b>I</b> D-sub-connector block</p> 
<p><b>J</b> Flat cable connector block</p> 	<p><b>K</b> Serial transmission block</p> <ul style="list-style-type: none"> <li>● Connector type</li> <li>● Thin slot type</li> </ul>  

#### Related products

#### Related products

<p><b>L</b> Related products</p> <ul style="list-style-type: none"> <li>● Mounting rail</li> </ul> 	<ul style="list-style-type: none"> <li>● Blanking plug</li> </ul> 	<ul style="list-style-type: none"> <li>● Air supply spacer</li> </ul> 	<ul style="list-style-type: none"> <li>● Spacer pilot check valve</li> </ul> 
<ul style="list-style-type: none"> <li>● Silencer</li> </ul> 	<ul style="list-style-type: none"> <li>● In-stop valve spacer</li> </ul> 	<ul style="list-style-type: none"> <li>● Pilot check valve</li> </ul> 	

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GB Series

## Block manifold: piping section

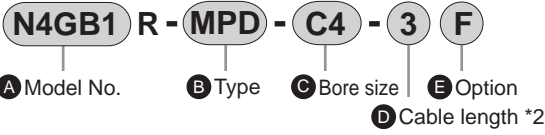
### Piping

#### A. Discrete valve block with solenoid valve

Block assembled from solenoid valve body and valve block (split resin base). Refer to pages 382 and 390 for the selection guide.

#### B. Discrete valve block with masking plate

Block assembled from masking plate and valve block (split resin base).



B Type	
MP	For individual wiring
MPS	For reduced wiring single
MPD	For reduced wiring double/3-position

D Cable length *3	
Blank	For individual wiring
2 to 10	Select the length from page 404.

E Option	
Blank	No option
L	With piping adapter
F	Port A/B filter built in

\*2: A socket assembly is included with purchases for reduced wiring station expansion, so select "2 to 10". Select the cable length from page 404 and fill in the **D** cable length field. If ordering with the manifold specifications sheet, the cable length can be omitted.

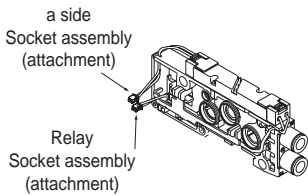
Code	Description	A Model No.	
		N4GB1	N4GB2
<b>C Port size (for base piping, this must be configured.)</b>			
Type	Metric fitting/Rc thread		
CF	ø1.8 barbed fitting (compatible tube UP-9102-**)	●	
C18	ø1.8 push-in fitting (compatible tube UP-9402-**) <b>Plug</b>	●	
C4	ø4 push-in fitting	●	●
C6	ø6 push-in fitting	●	●
C8	ø8 push-in fitting	●	●
CL18	ø1.8 push-in L-fitting upward (compatible tube UP-9402-**) <b>Plug</b>	●	
CL4	ø4 push-in L-fitting (upward)	●	●
CL6	ø6 push-in L-fitting (upward)	●	●
CL8	ø8 push-in L-fitting (upward)	●	●
CD18	ø1.8 push-in L-fitting downward (compatible tube UP-9402-**) <b>Plug</b>	●	
CD4	ø4 push-in L-fitting (downward)	●	●
CD6	ø6 push-in L-fitting (downward)	●	●
CD8	ø8 push-in L-fitting (downward)	●	●
Single side plug spec	Port A	Port B	
CFNC	ø1.8 barbed fitting (compatible tube UP-9102-**) <b>Plug</b>		●
C18NC	ø1.8 push-in fitting (compatible tube UP-9402-**) <b>Plug</b>		●
C4NC	ø4 push-in fitting		●
C6NC	ø6 push-in fitting		●
C8NC	ø8 push-in fitting		●
CFNO	ø1.8 barbed fitting (compatible tube UP-9102-**) <b>Plug</b>		●
C18NO	ø1.8 push-in fitting (compatible tube UP-9402-**) <b>Plug</b>		●
C4NO	ø4 push-in fitting		●
C6NO	ø6 push-in fitting		●
C8NO	ø8 push-in fitting		●
CL18NC	ø1.8 push-in L-fitting upward (compatible tube UP-9402-**) <b>Plug</b>		●
CL4NC	ø4 push-in L-fitting (upward)		●
CL6NC	ø6 push-in L-fitting (upward)		●
CL8NC	ø8 push-in L-fitting (upward)		●
CL18NO	ø1.8 push-in L-fitting upward (compatible tube UP-9402-**) <b>Plug</b>		●
CL4NO	ø4 push-in L-fitting (upward)		●
CL6NO	ø6 push-in L-fitting (upward)		●
CL8NO	ø8 push-in L-fitting (upward)		●

Code	Description	A Model No.	
		N4GB1	N4GB2
Type	Metric fitting/Rc thread		
Single side plug spec	Port A	Port B	
CD18NC	ø1.8 push-in L-fitting downward (compatible tube UP-9402-**) <b>Plug</b>		●
CD4NC	ø4 push-in L-fitting (downward)		●
CD6NC	ø6 push-in L-fitting (downward)		●
CD8NC	ø8 push-in L-fitting (downward)		●
CD18NO	ø1.8 push-in L-fitting downward (compatible tube UP-9402-**) <b>Plug</b>		●
CD4NO	ø4 push-in L-fitting (downward)		●
CD6NO	ø6 push-in L-fitting (downward)		●
CD8NO	ø8 push-in L-fitting (downward)		●
Type	Inch fitting/inch thread		
C3N	ø1/8" push-in fitting		●
C4N	ø5/32" push-in fitting		●
C6N	ø1/4" push-in fitting		●
C8N	ø5/16" push-in fitting		●
CL3N	ø1/8" push-in L-fitting upward *1		○
CL4N	ø5/32" push-in L-fitting upward *1		○
CL6N	ø1/4" push-in L-fitting upward *1		○
CL8N	ø5/16" push-in L-fitting upward *1		○
Single side plug spec	Port A	Port B	
C3NCN	ø1/8" push-in fitting <b>Plug</b>		●
C4NCN	ø5/32" push-in fitting		●
C6NCN	ø1/4" push-in fitting		●
C8NCN	ø5/16" push-in fitting		●
C3NON	ø1/8" push-in fitting <b>Plug</b>		●
C4NON	ø5/32" push-in fitting		●
C6NON	ø1/4" push-in fitting		●
C8NON	ø5/16" push-in fitting		●
CL3NCN	ø1/8" push-in L-fitting upward *1 <b>Plug</b>		○
CL4NCN	ø5/32" push-in L-fitting upward *1		○
CL6NCN	ø1/4" push-in L-fitting upward *1		○
CL8NCN	ø5/16" push-in L-fitting upward *1		○
CL3NON	ø1/8" push-in L-fitting upward *1 <b>Plug</b>		○
CL4NON	ø5/32" push-in L-fitting upward *1		○
CL6NON	ø1/4" push-in L-fitting upward *1		○
CL8NON	ø5/16" push-in L-fitting upward *1		○

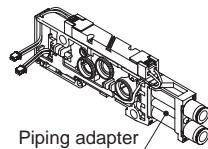
\*1: Available as made to order.

■ is not available.  
○ indicates made to order.

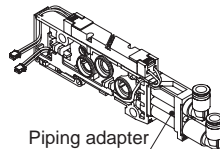
N4GB1R-MPD-C4-3



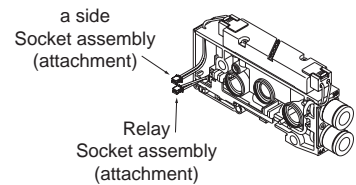
N4GB1R-MPD-C4-3L



N4GB1R-MPD-CL4-3L



N4GB2R-MPD-C6-5

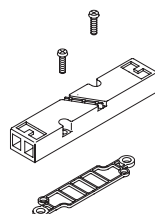


#### B-1. Masking plate

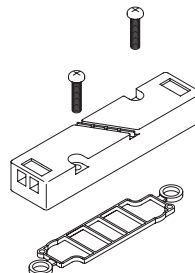
4G1R - MP

A Model No.

4G1R-MP



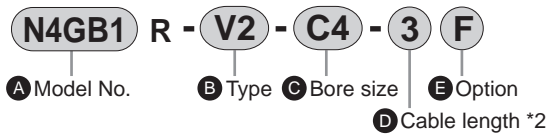
4G2R-MP



### Piping

#### C. Discrete valve block (separate item only)

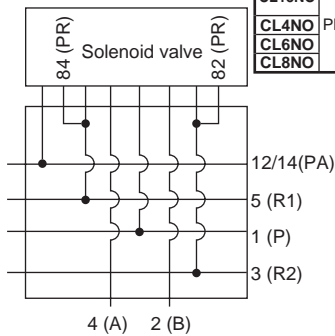
Discrete valve block (split resin base).



B Type	
V1	For individual wiring For reduced wiring single
V2	For reduced wiring double/3-position

D Cable length *3	
Blank	For individual wiring
2 to 10	Select the length from page 404.

\*2: A socket assembly is included with purchases for reduced wiring station expansion, so select "2 to 10". Select the cable length from page 404 and fill in the **D** cable length field. If ordering with the manifold specifications sheet, the cable length can be omitted.



Discrete valve block circuit diagram

Code	Description	A Model No.	
		N4GB1	N4GB2
<b>C Port size (for base piping, this must be configured.)</b>			
Type	Metric fitting/Rc thread		
CF	ø1.8 barbed fitting (compatible tube UP-9102-**)	●	
C18	ø1.8 push-in fitting (compatible tube UP-9402-**)	●	
C4	ø4 push-in fitting	●	●
C6	ø6 push-in fitting	●	●
C8	ø8 push-in fitting	●	●
CL18	ø1.8 push-in L-fitting upward (compatible tube UP-9402-**)	●	
CL4	ø4 push-in L-fitting (upward)	●	●
CL6	ø6 push-in L-fitting (upward)	●	●
CL8	ø8 push-in L-fitting (upward)	●	●
CD18	ø1.8 push-in L-fitting downward (compatible tube UP-9402-**)	●	
CD4	ø4 push-in L-fitting (downward)	●	●
CD6	ø6 push-in L-fitting (downward)	●	●
CD8	ø8 push-in L-fitting (downward)	●	●
Single side plug spec		Port A	Port B
CFNC	ø1.8 barbed fitting (compatible tube UP-9102-**) Plug	●	
C18NC	ø1.8 push-in fitting (compatible tube UP-9402-**) Plug	●	
C4NC	ø4 push-in fitting	●	●
C6NC	ø6 push-in fitting	●	●
C8NC	ø8 push-in fitting	●	●
CFNO	ø1.8 barbed fitting (compatible tube UP-9102-**) Plug	●	
C18NO	ø1.8 push-in fitting (compatible tube UP-9402-**) Plug	●	
C4NO	ø4 push-in fitting	●	●
C6NO	ø6 push-in fitting	●	●
C8NO	ø8 push-in fitting	●	●
CL18NC	ø1.8 push-in L-fitting upward (compatible tube UP-9402-**) Plug	●	
CL4NC	ø4 push-in L-fitting (upward)	●	●
CL6NC	ø6 push-in L-fitting (upward)	●	●
CL8NC	ø8 push-in L-fitting (upward)	●	●
CL18NO	ø1.8 push-in L-fitting upward (compatible tube UP-9402-**) Plug	●	
CL4NO	ø4 push-in L-fitting (upward)	●	●
CL6NO	ø6 push-in L-fitting (upward)	●	●
CL8NO	ø8 push-in L-fitting (upward)	●	●

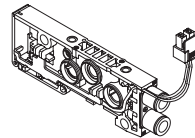
Code	Description	A Model No.	
		N4GB1	N4GB2
<b>Metric fitting/Rc thread</b>			
Type	Port A	Port B	
CD18NC	ø1.8 push-in L-fitting downward (compatible tube UP-9402-**) Plug		●
CD4NC	ø4 push-in L-fitting (downward)		●
CD6NC	ø6 push-in L-fitting (downward)		●
CD8NC	ø8 push-in L-fitting (downward)		●
CD18NO	ø1.8 push-in L-fitting downward (compatible tube UP-9402-**) Plug		●
CD4NO	ø4 push-in L-fitting (downward)		●
CD6NO	ø6 push-in L-fitting (downward)		●
CD8NO	ø8 push-in L-fitting (downward)		●
<b>Inch fitting/inch thread</b>			
Type	Port A	Port B	
C3N	ø1/8" push-in fitting		●
C4N	ø5/32" push-in fitting		●
C6N	ø1/4" push-in fitting		●
C8N	ø5/16" push-in fitting		●
CL3N	ø1/8" push-in L-fitting upward *1	○	
CL4N	ø5/32" push-in L-fitting upward *1	○	
CL6N	ø1/4" push-in L-fitting upward *1	○	
CL8N	ø5/16" push-in L-fitting upward *1	○	
Single side plug spec		Port A	Port B
C3NCN	ø1/8" push-in fitting Plug	●	
C4NCN	ø5/32" push-in fitting Plug	●	
C6NCN	ø1/4" push-in fitting Plug	●	●
C8NCN	ø5/16" push-in fitting Plug	●	●
C3NON	ø1/8" push-in fitting Plug	●	
C4NON	ø5/32" push-in fitting Plug	●	
C6NON	ø1/4" push-in fitting Plug	●	●
C8NON	ø5/16" push-in fitting Plug	●	●
CL3NCN	ø1/8" push-in L-fitting upward *1 Plug	○	
CL4NCN	ø5/32" push-in L-fitting upward *1 Plug	○	
CL6NCN	ø1/4" push-in L-fitting upward *1 Plug	○	
CL8NCN	ø5/16" push-in L-fitting upward *1 Plug	○	
CL3NON	ø1/8" push-in L-fitting upward *1 Plug	○	
CL4NON	ø5/32" push-in L-fitting upward *1 Plug	○	
CL6NON	ø1/4" push-in L-fitting upward *1 Plug	○	
CL8NON	ø5/16" push-in L-fitting upward *1 Plug	○	
<b>E Option</b>			
Blank	No option		
L	With piping adapter	●	●
F	Port A/B filter built in	●	●
Z6	For spacer pilot check valve mounting	●	●

\*1: Available as made to order.

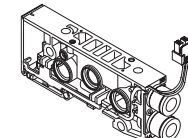
■ is not available.

○ indicates made to order.

N4GB1R-V2-C4



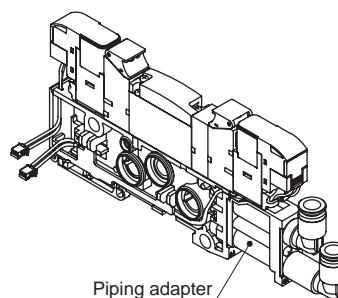
N4GB2R-V2-C6



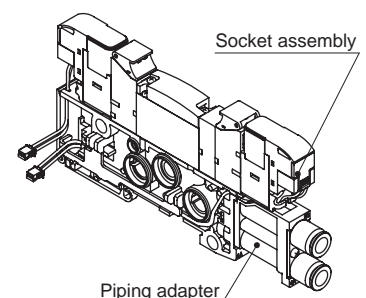
#### Option L piping adapter

When using radial upward push-in fittings with double or 3-position types, select L (with piping adapter).

In addition, combining axial push-in fittings with piping adapters may cause the fitting to protrude past the socket assembly, making tube attachment and removal easier.



Piping adapter



Piping adapter

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4C*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GB Series

## Block manifold: piping section

### Piping

As problems may occur depending on the configuration, make selections with a sufficient understanding of the features of each block.

### C. Discrete valve block (separate item only)

#### Valve block for expansion Cable length

Calculate the distance W between the expansion position and the wiring block (Fig. 1), and select an appropriate cable length from [Table 1]. Note that the required socket assembly will differ between the a side solenoid and the b side solenoid.

While Fig. 1 shows the wiring block with left side specifications, similarly calculate the distance W between the expansion position and the wiring block for the right side specifications.

Calculation of W

· For MN4G1

$$W = (10.5 \times n) + (16 \times m) + (10.5 \times l)$$

· For MN4G2

$$W = (16 \times n) + (18 \times m) + (10.5 \times l)$$

n/m/l: No. of valve blocks/supply and exhaust blocks/partition blocks

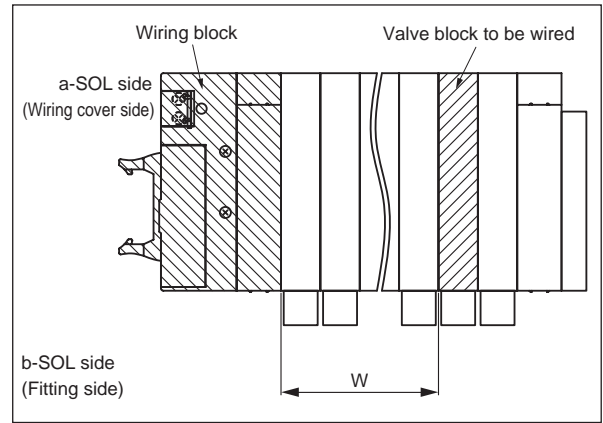
· For MN4GX

Calculate W using the mix block width of 16.

[Table 1] W length - selection No. compatibility table

Selection No.	Type of wiring		
	T10/11 (R)	T30/5*/6* (R)	T7*/T8*
2		0	25 or less
3	20 or less	Over 0 to 30	Over 25 to 55
4	Over 20 to 70	Over 30 to 80	Over 55 to 105
5	Over 70 to 120	Over 80 to 130	Over 105 to 155
6	Over 120 to 170	Over 130 to 180	Over 155 to 205
7	Over 170 to 260	Over 180 to 270	Over 205 to 295
8	Over 260 to 350	Over 270 to 360	Over 295 to 385
9	Over 350 to 450	Over 360 to 460	Over 385 to 485
10	Over 450 to 570	Over 460 to 580	Over 485 to 605

Fig. 1



### D. Supply and exhaust block

The supply and exhaust block can be installed at any position adjacent to the valve block.

As there is no set number of units, install two or more units when necessary for combinations with partition blocks or in order to increase the flow rate for supply and exhaust.

In order to prevent foreign matter from entering, port P is equipped with a filter.

**N4G1 R-Q-8 X**

Model No.    **A** Type    **B** Bore size    **C** Exhaust

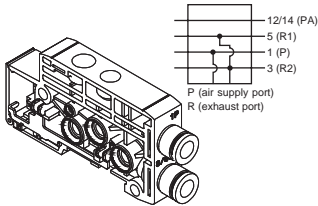
<b>A Type</b>		<b>B Bore size</b>		<b>6M *2</b>		<b>6M *1, *2</b>		<b>6DM *1, *2</b>		<b>8M *2</b>		<b>8M *1, *2</b>		<b>8LM *1, *2</b>		<b>8DM *1, *2</b>		<b>8LN *1, *2</b>		<b>8DN *1</b>			
<b>Q</b>	Internal pilot	<b>6</b>	ø6 push-in fitting	Port P ø1/4" push-in fitting	Port R ø6 push-in fitting	Port P ø1/4" push-in fitting upward	Port R ø6 push-in fitting upward	Port P ø1/4" push-in fitting downward	Port R ø6 push-in fitting downward	Port P ø5/16" push-in fitting	Port R ø8 push-in fitting	Port P ø5/16" push-in fitting upward	Port R ø8 push-in fitting upward	Port P ø5/16" push-in fitting downward	Port R ø8 push-in fitting downward	Port P ø3/8" push-in fitting upward	Port R ø10 push-in fitting upward	Port P ø3/8" push-in fitting downward	Port R ø10 push-in fitting downward	<b>C Exhaust</b>	<b>Blank</b> Common exhaust		
<b>QK</b>	External pilot	<b>6L</b>	ø6 push-in fitting upward	<b>6LM</b>	ø6 push-in fitting upward	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting downward	<b>8M</b>	ø8 push-in fitting upward	<b>8LM</b>	ø8 push-in fitting upward	<b>8DM</b>	ø8 push-in fitting downward	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting upward	<b>10DM</b>	ø10 push-in fitting downward	<b>X *3</b>	Atmospheric release
		<b>6D</b>	ø6 push-in fitting down	<b>6DM</b>	ø6 push-in fitting downward	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting downward	<b>8M</b>	ø8 push-in fitting upward	<b>8LM</b>	ø8 push-in fitting upward	<b>8DM</b>	ø8 push-in fitting downward	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting upward	<b>10DM</b>	ø10 push-in fitting downward	<b>X *3</b>	Atmospheric release
		<b>8</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>8L</b>	ø8 push-in fitting upward	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>8D</b>	ø8 push-in fitting downward	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>6N</b>	ø1/4" push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>6LN</b>	ø1/4" push-in fitting upward *1	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>6DN</b>	ø1/4" push-in fitting downward *1	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>8N</b>	ø5/16" push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>8LN</b>	ø5/16" push-in fitting upward *1	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>8DN</b>	ø5/16" push-in fitting downward *1	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release

**N4G2 R-QK-10L X**

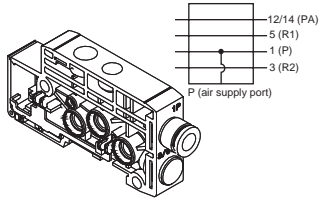
Model No.    **A** Type    **B** Bore size    **C** Exhaust

<b>A Type</b>		<b>B Bore size</b>		<b>8M *2</b>		<b>8LM *1, *2</b>		<b>8DM *1, *2</b>		<b>8M *2</b>		<b>8M *1, *2</b>		<b>8LM *1, *2</b>		<b>8DM *1, *2</b>		<b>8LN *1, *2</b>		<b>8DN *1</b>			
<b>Q</b>	Internal pilot	<b>8</b>	ø8 push-in fitting	Port P ø5/16" push-in fitting	Port R ø8 push-in fitting	Port P ø5/16" push-in fitting upward	Port R ø8 push-in fitting upward	Port P ø5/16" push-in fitting downward	Port R ø8 push-in fitting downward	Port P ø5/16" push-in fitting	Port R ø8 push-in fitting	Port P ø5/16" push-in fitting upward	Port R ø8 push-in fitting upward	Port P ø5/16" push-in fitting downward	Port R ø8 push-in fitting downward	Port P ø3/8" push-in fitting upward	Port R ø10 push-in fitting upward	Port P ø3/8" push-in fitting downward	Port R ø10 push-in fitting downward	<b>C Exhaust</b>	<b>Blank</b> Common exhaust		
<b>QK</b>	External pilot	<b>8L</b>	ø8 push-in fitting upward	<b>8LM</b>	ø8 push-in fitting upward	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting downward	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>8D</b>	ø8 push-in fitting downward	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>10</b>	ø10 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>10L</b>	ø10 push-in fitting upward	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>10D</b>	ø10 push-in fitting downward	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>8N</b>	ø5/16" push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>8LN</b>	ø5/16" push-in fitting upward *1	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release
		<b>8DN</b>	ø5/16" push-in fitting downward *1	<b>8M</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>8M</b>	ø8 push-in fitting	<b>8LM</b>	ø8 push-in fitting	<b>8DM</b>	ø8 push-in fitting	<b>10M</b>	ø10 push-in fitting	<b>10LM</b>	ø10 push-in fitting	<b>10DM</b>	ø10 push-in fitting	<b>X *3</b>	Atmospheric release

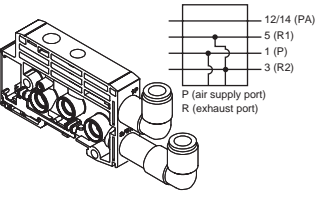
N4G1R-Q-8



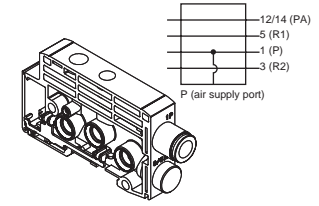
N4G1R-Q-8X



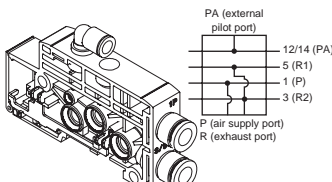
N4G2R-Q-10L



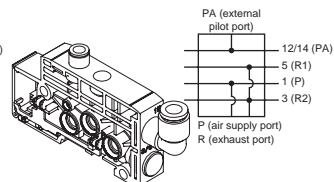
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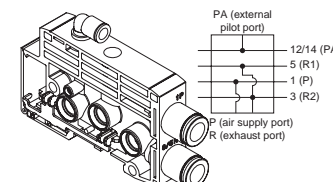
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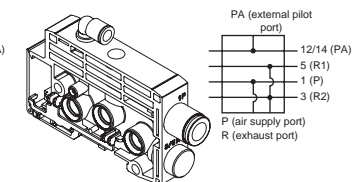
N4G1R-QK-8LX



N4G2R-QK-10



N4G2R-QK-10X



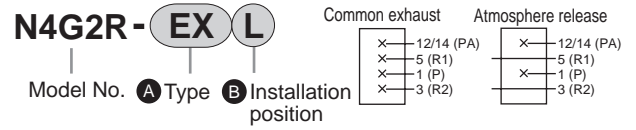
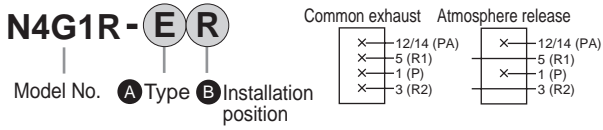
\* External pilot port: ø6 push-in fitting

\* External pilot port: ø6 push-in fitting

### Piping

#### E. End block

Install on both ends of the manifold for individual wiring. Install on opposite sides of the wiring block for reduced wiring.  
An exhaust muffler is built into the atmosphere release type.



A Type		B Installation position	
E	Common exhaust	L	For left side
EX	Atmospheric release	R	For right side

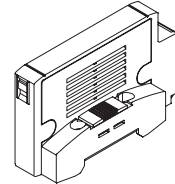
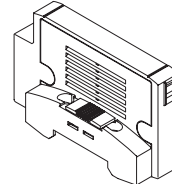
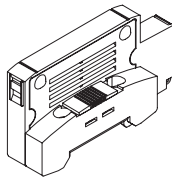
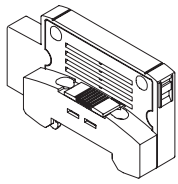
A Type		B Installation position	
E	Common exhaust	L	For left side
EX	Atmospheric release	R	For right side

N4G1R-EL

N4G1R-ER

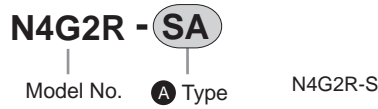
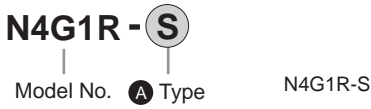
N4G2R-EL

N4G2R-ER

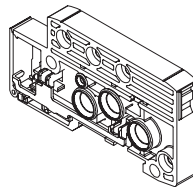


#### F. Partition block

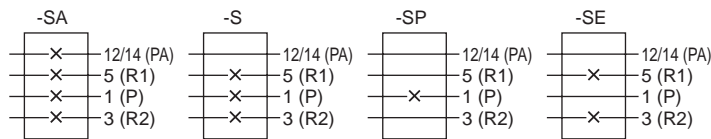
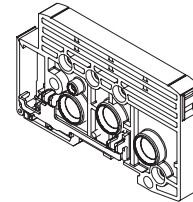
Multi-pressure mixing and measures for back pressure increase prevention can be achieved by combining partition blocks and supply and exhaust blocks.



A Type	
SA	P/R/PA blocked
S	P/R blocked PA through
SP	P blocked R/PA through
SE	R blocked P/PA through



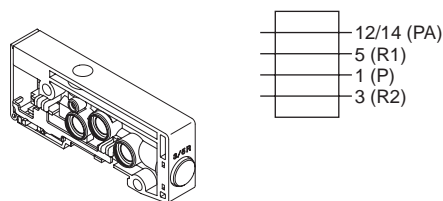
A Type	
SA	P/R/PA blocked
S	P/R blocked PA through
SP	P blocked R/PA through
SE	R blocked P/PA through



#### G. Mixed block

Install when 4G1 and 4G2 will be mixed within the same manifold.  
Installation positions are 4G1 on the left side of the mixed block and 4G2 on the right side.

### N4G12R - MIX



4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GB Series

## Block manifold: piping section

### Wiring

Wiring block cannot be ordered as a single item.

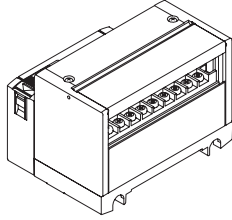
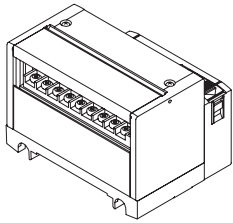
\* "Wiring block" is the overall term for H. common terminal blocks, I. D-sub-connector blocks, J. flat cable connector blocks, and K. serial transmission blocks.

### H. Common terminal block

#### M3 thread specifications

N4G1R-T10

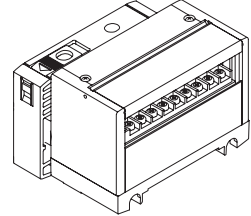
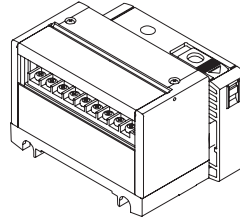
N4G1R-T10R



#### M3 thread specifications

N4G2R-T10

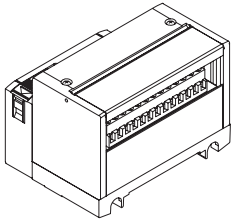
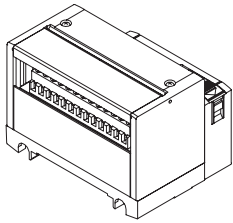
N4G2R-T10R



#### Clamping specification

N4G1R-T11

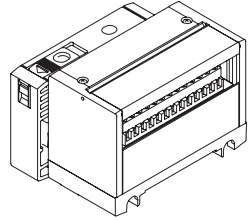
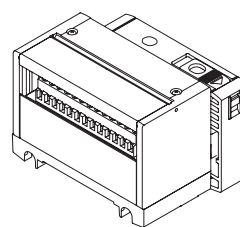
N4G1R-T11R



#### Clamping specification

N4G2R-T11

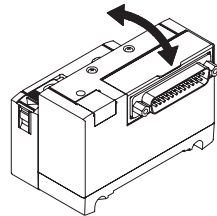
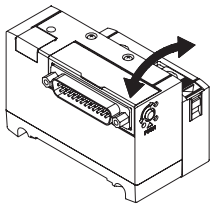
N4G2R-T11R



### I. D-sub-connector block

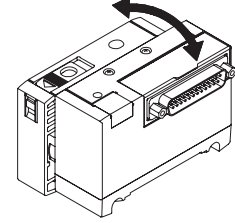
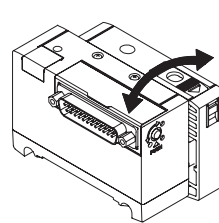
N4G1R-T30

N4G1R-T30R



N4G2R-T30

N4G2R-T30R



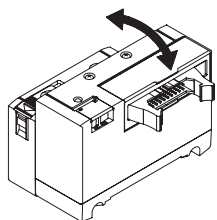
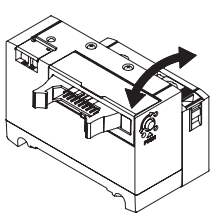
\* For the cable with D-sub-connector model No., refer to page 819.

### J. Flat cable connector block

#### ● With power supply terminal

N4G1R-T50

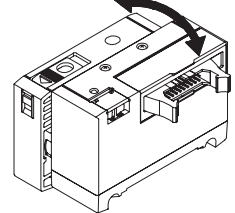
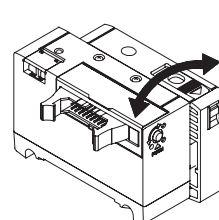
N4G1R-T50R



#### ● With power supply terminal

N4G2R-T50

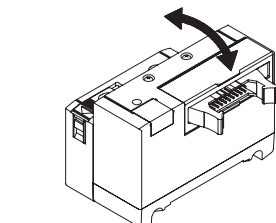
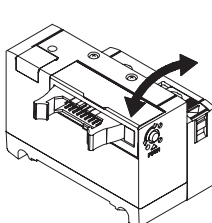
N4G2R-T50R



#### ● Without power supply terminal

N4G1R-T51 (N4G1R-T52)  
(N4G1R-T53)

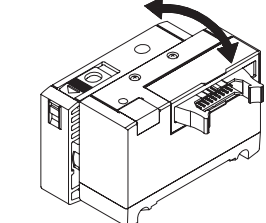
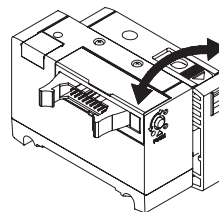
N4G1R-T51R (N4G1R-T52R)  
(N4G1R-T53R)



#### ● Without power supply terminal

N4G2R-T51 (N4G2R-T52)  
(N4G2R-T53)

N4G2R-T51R (N4G2R-T52R)  
(N4G2R-T53R)



\* The appearance of the connector unit varies with T52 and T53.

### Wiring

(Wiring block) \* Wiring block cannot be ordered as a separate item.

#### K. Serial transmission block

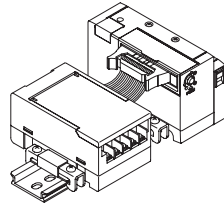
##### ● Connector type

### N4G1R - T6G1

Model No.    **A** Type

<b>A</b> Type			
<b>T6G1</b>	CC-Link	NPN	16 points

N4G1R-T6\*

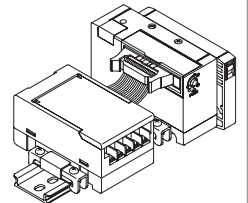


### N4G2R - T6G1

Model No.    **A** Type

<b>A</b> Type			
<b>T6G1</b>	CC-Link	NPN	16 points

N4G2R-T6\*



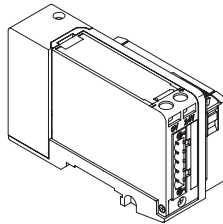
##### ● Slim slot

### N4G1R - T7D1

Model No.    **A** Type

<b>A</b> Type			
<b>T7D1</b>	DeviceNet	NPN	16 points
<b>T7G1</b>	CC-Link		16 points
<b>T7L1</b>	SAVE NET		16 points
<b>T7S1</b>	CompoNet	NPN	16 points
<b>T7SP1</b>		PNP	

N4G1R-T7\*

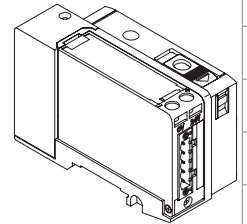


### N4G2R - T7G1

Model No.    **A** Type

<b>A</b> Type			
<b>T7D1</b>	DeviceNet	NPN	16 points
<b>T7G1</b>	CC-Link		16 points
<b>T7L1</b>	SAVE NET		16 points
<b>T7S1</b>	CompoNet	NPN	16 points
<b>T7SP1</b>		PNP	

N4G2R-T7\*



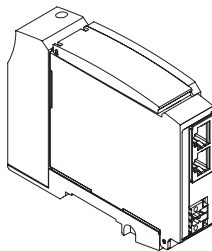
##### ● Slim slot

### N4G1R - T8G1

**A** Wiring method

<b>A</b> Wiring method			
<b>T8G1</b>	CC-Link	NPN	16 points
<b>T8G2</b>			32 points
<b>T8GP1</b>		PNP	16 points
<b>T8GP2</b>	32 points		
<b>T8P1</b>	PROFIBUS-DP	NPN	16 points
<b>T8P2</b>			32 points
<b>T8PP1</b>		PNP	16 points
<b>T8PP2</b>			32 points
<b>T8EC1</b>	EtherCAT	NPN	16 points
<b>T8EC2</b>			32 points
<b>T8ECP1</b>		PNP	16 points
<b>T8ECP2</b>			32 points
<b>T8EN1</b>	EtherNet/IP	NPN	16 points
<b>T8EN2</b>			32 points
<b>T8ENP1</b>		PNP	16 points
<b>T8ENP2</b>			32 points
<b>T8D1</b>	DeviceNet	NPN	16 points
<b>T8D2</b>			32 points
<b>T8DP1</b>		PNP	16 points
<b>T8DP2</b>			32 points
<b>T8EB1</b>	CC-Link	NPN	16 points
<b>T8EB2</b>			32 points
<b>T8EBP1</b>		PNP	16 points
<b>T8EBP2</b>			32 points
<b>T8EP1</b>	PROFINET	NPN	16 points
<b>T8EP2</b>			32 points
<b>T8EPP1</b>		PNP	16 points
<b>T8EPP2</b>			32 points

N4G1R-T8\*

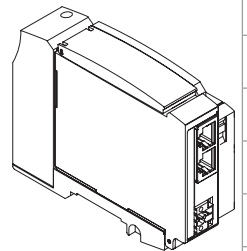


### N4G2R - T8G1

**A** Wiring method

<b>A</b> Wiring method			
<b>T8G1</b>	CC-Link	NPN	16 points
<b>T8G2</b>			32 points
<b>T8GP1</b>		PNP	16 points
<b>T8GP2</b>	32 points		
<b>T8P1</b>	PROFIBUS-DP	NPN	16 points
<b>T8P2</b>			32 points
<b>T8PP1</b>		PNP	16 points
<b>T8PP2</b>			32 points
<b>T8EC1</b>	EtherCAT	NPN	16 points
<b>T8EC2</b>			32 points
<b>T8ECP1</b>		PNP	16 points
<b>T8ECP2</b>			32 points
<b>T8EN1</b>	EtherNet/IP	NPN	16 points
<b>T8EN2</b>			32 points
<b>T8ENP1</b>		PNP	16 points
<b>T8ENP2</b>			32 points
<b>T8D1</b>	DeviceNet	NPN	16 points
<b>T8D2</b>			32 points
<b>T8DP1</b>		PNP	16 points
<b>T8DP2</b>			32 points
<b>T8EB1</b>	CC-Link	NPN	16 points
<b>T8EB2</b>			32 points
<b>T8EBP1</b>		PNP	16 points
<b>T8EBP2</b>			32 points
<b>T8EP1</b>	PROFINET	NPN	16 points
<b>T8EP2</b>			32 points
<b>T8EPP1</b>		PNP	16 points
<b>T8EPP2</b>			32 points

N4G2R-T8\*



4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending



# MN4GB Series

## Block manifold: piping section

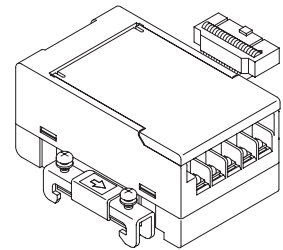
L. Serial transmission device unit \* The serial transmission device unit may be ordered as a separate item.

● Single unit serial transmission device (adapter) station (connector connection)

### 4GR - OPP3 - 1G

A Wiring method

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

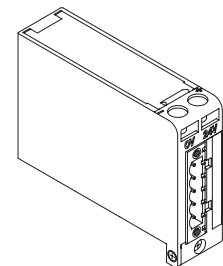


● Single unit serial transmission device (adapter) station (slim slot)

### 4GR - OPP4 - 1D

A Wiring method

Code	Description			
<b>A Wiring method</b>				
1D	T7D1	DeviceNet	NPN	16 points
1G	T7G1	CC-Link	NPN	16 points
1L	T7L1	SAVE NET	NPN	16 points
1S	T7S1	CompoNet	NPN	16 points
1S-P	T7SP1		PNP	16 points

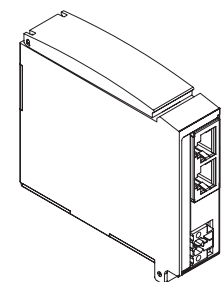


● Single unit serial transmission device (adapter) station (slim slot)

### 4GR - OPP7 - 2G

A Wiring method

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

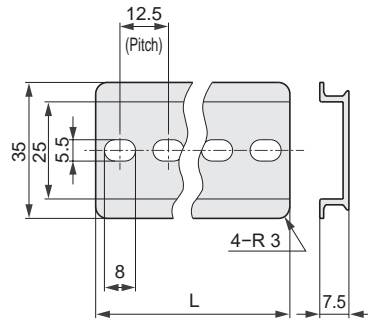


### Related products

Mounting rail, silencer, blanking plug, tag plate

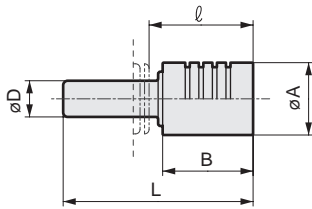
#### ● Mounting rail

N4GR-BAA [length]



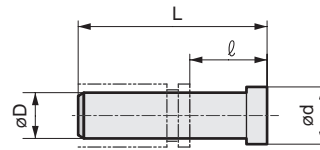
- Minimum length is 87.5 mm.
- Select the length at 12.5 mm pitch.
- For details, refer to page 427.

#### ● Silencer



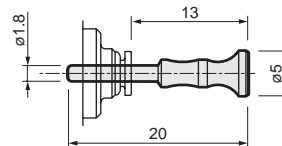
Model No.	D	L	A	B	l
SLW-H6	ø6	41	16	20	23.5
SLW-H8	ø8	42	16	20	23
SLW-H10	ø10	53	20	27	31.5

#### ● Blanking plug



Model No.	D	L	l	d
GWP4-B	ø4	27	16	6
GWP6-B	ø6	29	11.5	8
GWP8-B	ø8	33	14	10
GWP10-B	ø10	40	18.5	12

#### PG-P2-B (for ø1.8)



4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GB Series

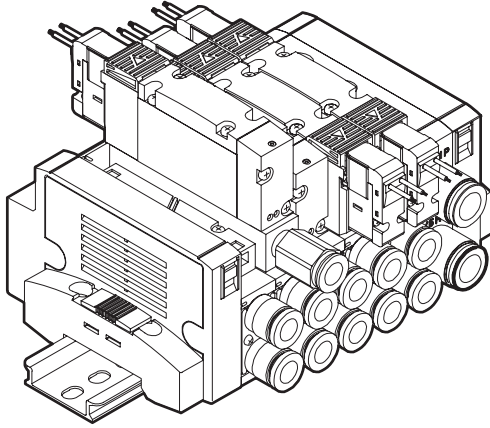
Block manifold; related products

- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (master)
- 4GB**  
With sensor
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3SE  
MN4SE
- W4GA/B2
- W4GB4
- MN3S0  
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (master)
- 4F
- 4F (master)
- PV5G  
GMF
- PV5  
GMF
- PV5S-0
- 3Q
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP  
NVP
- 4G\*0EJ
- 4F\*0EX
- 4F\*0E
- HMV  
HSV
- 2QV  
3QV
- SKH
- Silencer
- TotAirSys  
(Total Air)
- TotAirSys  
(Gamma)
- Ending

## Related products

Air supply spacer

### ● Air supply spacer



## Specifications

Model No.	P→A/B		A/B→R		Weight g
	C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
4G1	0.70	0.23	0.93	0.16	8
4G2	1.6	0.17	1.8	0.16	35

\*1: Values are when a valve is mounted.

\*2: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .

## How to order discrete units

4G **2** R - P - **GWS6**

**A** Air supply spacer model No.

**B** Port size \*1

## ⚠ Precautions for model selection

- \*1 : Specify the positions and quantity of air supply spacers for manifold in the manifold specifications sheet.
- \*2 : If the port A/B fitting is elbow, turn the air supply port of the air supply spacer toward the reverse side ("a" solenoid side).
- \*3 : If the elbow (upward) port A/B fitting is used for the reduced wiring manifold, the air supply spacer cannot be selected.
- \*4 : Combination with the masking plate is not supported.

Code	Description	Model No.	
		4GB1	4GB2
<b>A Air supply spacer model No.</b>			
1	For 4G1	●	
2	For 4G2		●
<b>B Port size</b>			
Blank	M5 (4G1), Rc1/8 (4G2)	●	●
GWS4	ø4 fitting	●	
GWS6	ø6 fitting	●	●
GWS8	ø8 fitting		●
06N	NPT1/8 thread		●
06G	G1/8 thread		●

is not available.

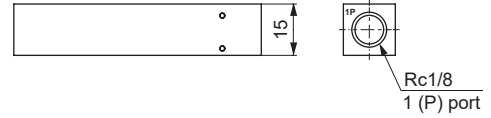
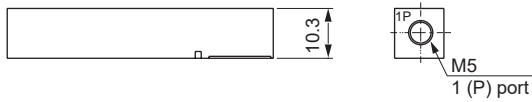
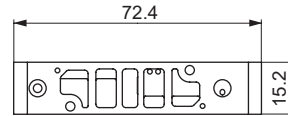
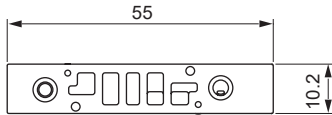
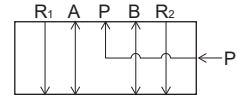
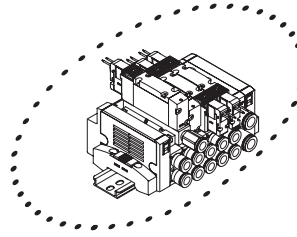
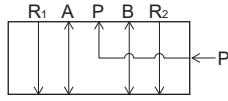
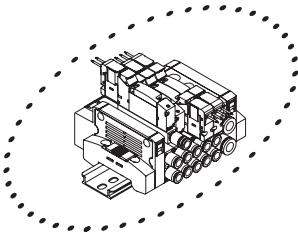
Attachments: 4G1 2 mounting screws, 1 dedicated gasket

4G2 2 mounting screws, 2 PR check valves, 1 body gasket

### Dimensions

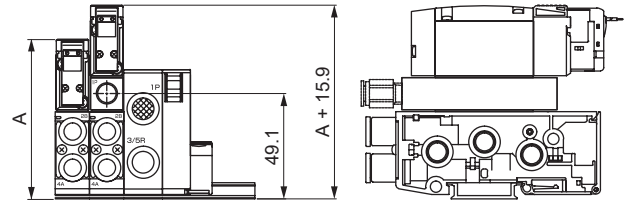
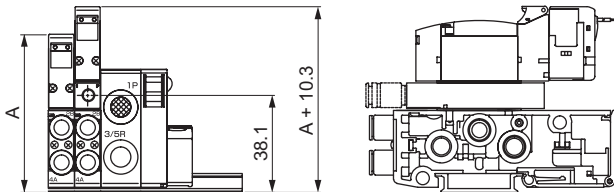
● 4G1

● 4G2



Dimensions when mounted

Dimensions when mounted



Note: For A dimension, check the dimensions of the respective specifications.

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GB Series

Block manifold; related products

4GA/B **Related products** Exhaust spacer

M4GA/B ● Exhaust spacer

MN4GA/B

4GA/B (master)

**4GB**  
With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3SE  
MN4SE

W4GA/B2

W4GB4

MN3S0  
MN4S0

4SA/B0

4KA/B

4KA/B (master)

4F

4F (master)

PV5G  
GMF

PV5  
GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP  
NVP

4G\*0EJ

4F\*0EX

4F\*0E

HMV  
HSV

2QV  
3QV

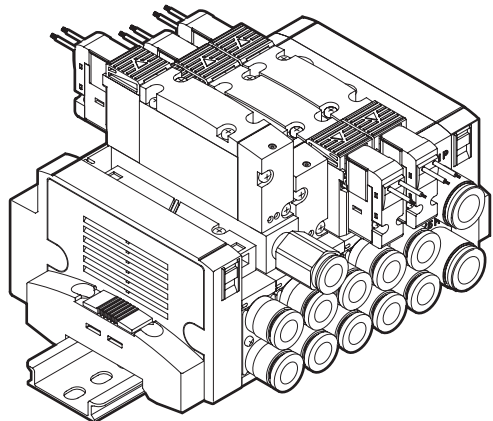
SKH

Silencer

TotAirSys  
(Total Air)

TotAirSys  
(Gamma)

Ending



## Specifications

Model No.	P→A/B		A/B→R		Weight g
	C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
4G1	0.94	0.28	0.68	0.33	7
4G2	1.5	0.24	1.9	0.24	34

\*1: Values are when a valve is mounted.

\*2: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .

## How to order discrete units

4G **2** R - R - **GWS6**

**A** Exhaust spacer model No.

**B** Port size \*1

## ⚠ Precautions for model selection

- \*1 : Specify the positions and quantity of exhaust spacers for manifold in the manifold specifications sheet.
- \*2 : If the port A/B fitting is elbow, turn the exhaust port of the exhaust spacer toward the reverse side ("a" solenoid side).
- \*3 : If elbow upward port A/B fitting is used for the reduced wiring manifold, the exhaust spacer cannot be selected.
- \*4 : Combination with the masking plate is not supported.

Code		Description		Model No.	
				4GB1	4GB2
<b>A Exhaust spacer model No.</b>					
<b>1</b>		For 4G1	●		
<b>2</b>		For 4G2		●	
<b>B Port size</b>					
<b>Blank</b>		M5 (4G1), Rc1/8 (4G2)	●	●	
<b>GWS4</b>		ø4 fitting	●		
<b>GWS6</b>		ø6 fitting	●	●	
<b>GWS8</b>		ø8 fitting		●	
<b>06N</b>		NPT1/8 thread		●	
<b>06G</b>		G1/8 thread		●	

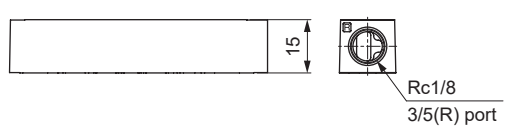
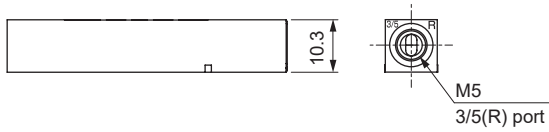
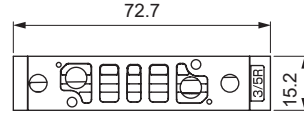
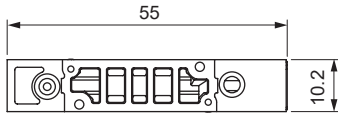
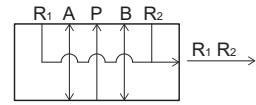
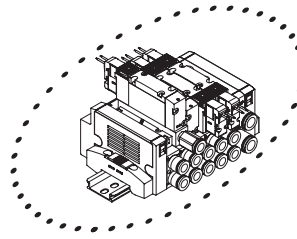
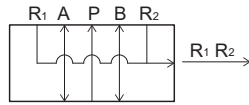
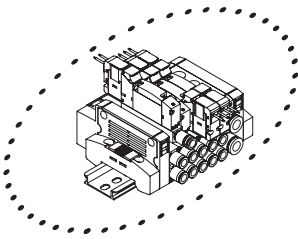
■ is not available.

Attachments: 4G1 2 mounting screws, 1 dedicated gasket  
4G2 2 mounting screws, 2 PR check valves, 1 body gasket

## Dimensions

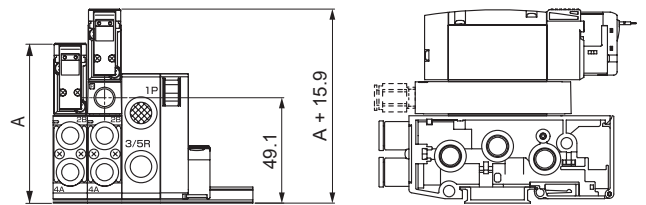
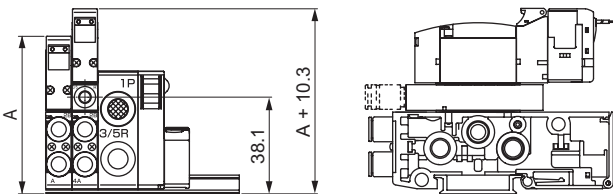
● 4G1

● 4G2



Dimensions when mounted

Dimensions when mounted



Note: For A dimension, check the dimensions of the respective specifications.

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GB Series

Block manifold; related products

4GA/B **Related products** In-stop valve spacer

M4GA/B ● In-stop valve spacer

MN4GA/B

4GA/B (master)

4GB With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B (master)

4F

4F (master)

PV5G

GMF

PV5

GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP

NVP

4G\*0EJ

4F\*0EX

4F\*0E

HMV

HSV

2QV

3QV

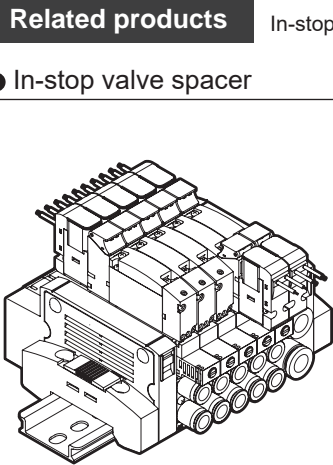
SKH

Silencer

TotAirSys (Total Air)

TotAirSys (Gamma)

Ending



## Specifications

Model No.	P→A/B		A/B→R		Weight g
	C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
4G1	0.54	0.03	0.82	0.27	17
4G2	1.5	0.17	1.6	0.20	63

\*1: Values with base piping and 2-position valve mounted.

\*2: The effective cross-sectional area when discharging residual pressure is 1.0 mm<sup>2</sup> (reference value).

\*3: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .

Attachments: 2 PR check valves, 1 body gasket

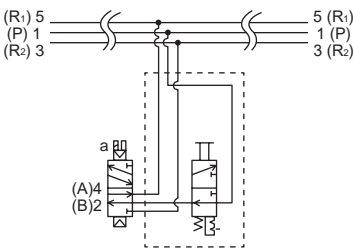
## How to order discrete units

4G1 R - IS

4G2 R - IS

In-stop valve spacer

## JIS symbol



## Precautions for model No. selection

\*1: Specify the spacer mounting position and quantity in manifold specifications sheet.

\*2: If the port A/B fitting is elbow (upward), turn the operation part of the in-stop valve spacer toward the reverse side ("a" solenoid side).

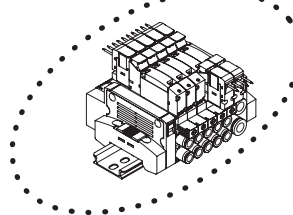
\*3: If elbow (upward) port A/B fitting is used for the reduced wiring manifold, the in-stop valve spacer cannot be selected.

\*4: The in-stop valve spacer cannot be used with the external pilot (K).

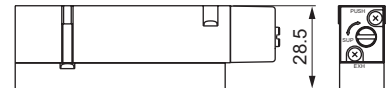
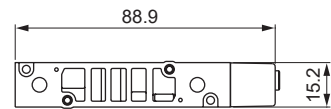
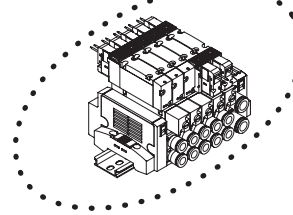
\*5: When retrofitting to the reduced wiring manifold, the existing wiring may be too short. Contact CKD for details.

## Dimensions

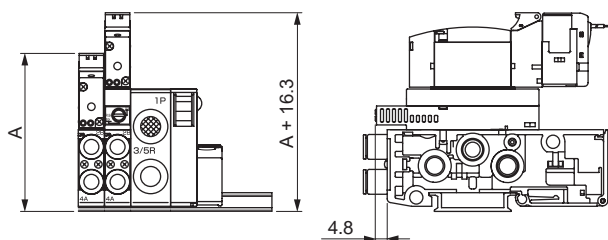
● 4G1



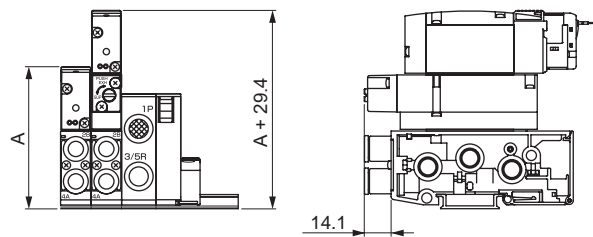
● 4G2



## Dimensions when mounted



## Dimensions when mounted

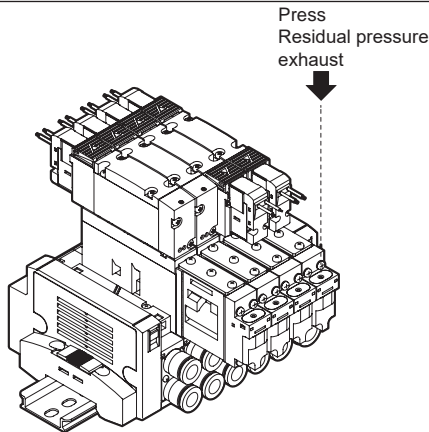


Note: For A dimensions, check the dimensions of the respective specifications.

### Related products

Spacer pilot check valve

#### ● Spacer pilot check valve



### Specifications

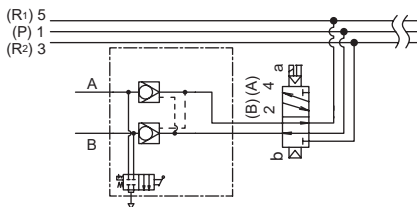
1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

Pilot check valve	4G2R-PC-M	
Working fluid	Compressed air	
Max. working pressure	MPa	0.7 (≈101 psi, 7 bar)
Min. working pressure	MPa	0.2 (≈29 psi, 2 bar)
Proof pressure	MPa	1.05 (≈152 psi, 10 bar)
Effective cross-sectional area	mm <sup>2</sup>	4 (Solenoid valve)
Ambient temperature	°C	-5 (23°F) to 55 (131°F) (no freezing)
Working fluid temperature	°C	5 (41°F) to 55 (131°F)
Lubrication	*1	Not required
Atmosphere	Cannot be used in corrosive gas environment.	
Weight	g	182.5

\*1: Use turbine oil Class 1 ISO VG32 for lubrication.

Note that excessive lubricant may cause unstable operation.

### JIS symbol



Note: Be careful, as using a cylinder with a large diameter (more than  $\varnothing 50$  as a guide) with little exhaust restriction (e.g., no speed controller, no silencer) may lead to a decrease in intermediate stop accuracy and to stopping error.

### Discrete model No.

**4G2R - PC - M**

Model No. Pilot check valve

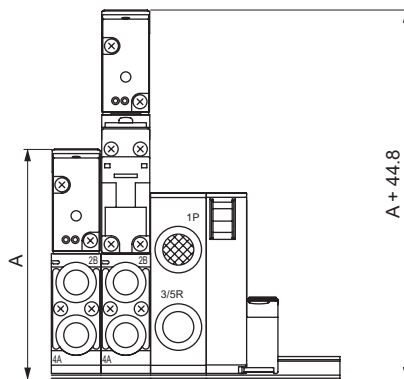
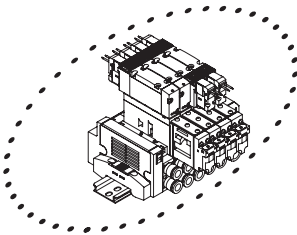
With residual pressure release function

### ⚠ Precautions for model No. selection

- \*1: Specify the spacer positions in the manifold specifications sheet.
- \*2: Spacer pilot check valve is not available when the fitting for port A/B is elbow.
- \*3: Stacking of spacers is not possible.
- \*4: A spacer cannot be combined with a masking plate.
- \*5: The spacer pilot check valve can be mounted only when the piping method is base piping.
- \*6: When adding a spacer to the reduced wiring manifold, the socket assembly lead wire will not reach far enough. Replace the valve block.  
(For details, refer to page 403.)

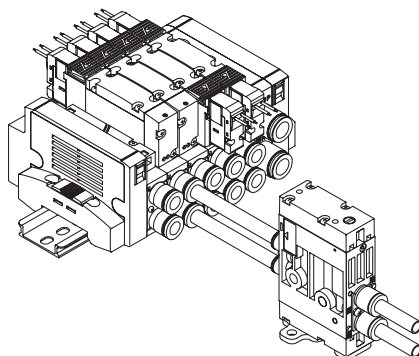
### Dimensions

- MN4GB2



Note: For A dimension, check the dimensions of the respective specifications.

#### ● Pilot check valve



For details, refer to page 194.

- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (master)
- 4GB With sensor
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E
- MN4E
- W4GA/B2
- W4GB4
- MN3S0
- MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (master)
- 4F
- 4F (master)
- PV5G
- GMF
- PV5
- GMF
- PV5S-0
- 3Q
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP
- NVP
- 4G\*0EJ
- 4F\*0EX
- 4F\*0E
- HMV
- HSV
- 2QV
- 3QV
- SKH
- Silencer
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- Ending



# MN4GB Series

## Block manifold; related products

- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (master)
- 4GB**  
With sensor
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E  
MN4E
- W4GA/B2
- W4GB4
- MN3S0  
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (master)
- 4F
- 4F (master)
- PV5G  
GMF
- PV5  
GMF
- PV5S-0
- 3Q
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP  
NVP
- 4G\*0EJ
- 4F\*0EX
- 4F\*0E
- HMV  
HSV
- 2QV  
3QV
- SKH
- Silencer
- TotAirSys  
(Total Air)
- TotAirSys  
(Gamma)
- Ending

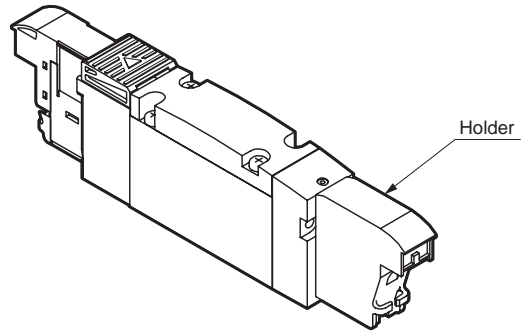
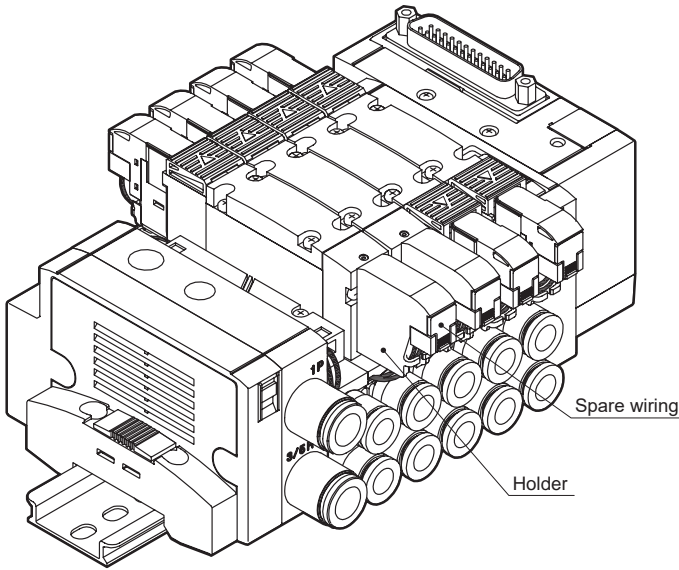
### Related products

Double wiring (with single spare wiring)

#### ● Double wiring (with single spare wiring) (W1)

For manifolds

For single valves (2-position single)



A holder for retaining the socket assembly is included.  
(Not included for A type sockets.)

This can be used to hold the socket assembly no longer required when changing the valve from a double solenoid to a single solenoid.

Spare wiring (holder and A type socket assembly) is included on the cap side for single solenoid valves. This simplifies the workflow when changing valves from a single solenoid to a double solenoid, as the A socket assembly does not have to be prepared separately.

### Example of model No.

#### ● Manifold model No. (example)

**MN4GB1 1 0 R - C6 - T30 W1 H - 10 - 3**

**A** Model No.      **B** Solenoid position      **C** Port size      **D** Wiring method      **E** Terminal/connector pin array      **F** Option      **G** Station No.      **H** Voltage

Code	Description
<b>E</b>	Terminal/connector pin array
<b>W1</b>	Double wiring (with single spare wiring)

\* Refer to How to order for each series for details about model numbers.  
Not compatible with combination with port size C\*NC or C\*NO.

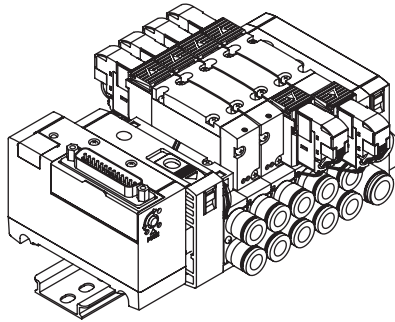
### Related products

Reduced wiring duct

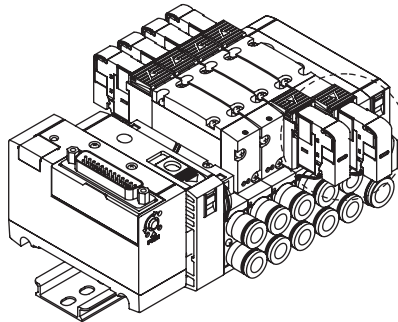
#### ● Reduced wiring duct (Q)

Holds A-connector lead wires.

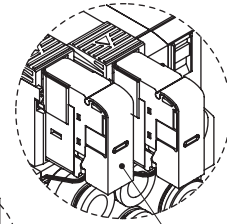
· Can be selected with reduced wiring manifolds (T\* and T\*R) and reduced wiring single valve units (A2N).



Standard



When Q (reduced wiring duct) selected



Reduced wiring duct

#### Example of model No.

##### ● Manifold model No. (example)

**MN4GB1 1 0 R - C6 - T30 W Q - 10 - 3**

**A** Model No.

**B** Solenoid position

**C** Port size

**D** Wiring method

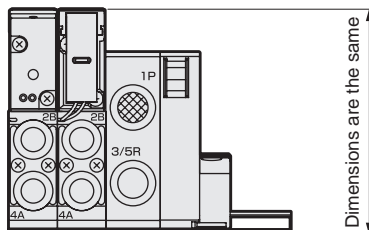
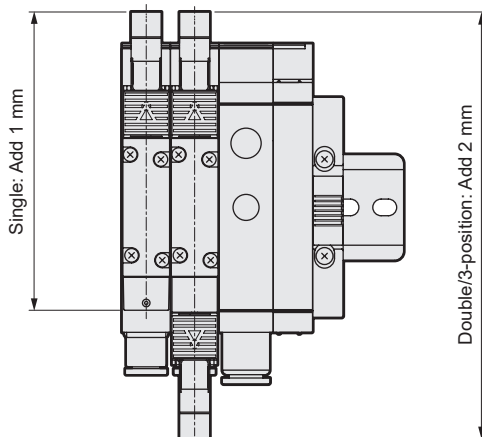
**E** Terminal/  
connector  
pin array

**G** Station No.

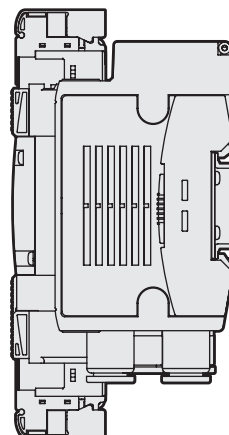
**H** Voltage

Code	Description
<b>F</b> Option	
<b>Q</b>	Reduced wiring duct

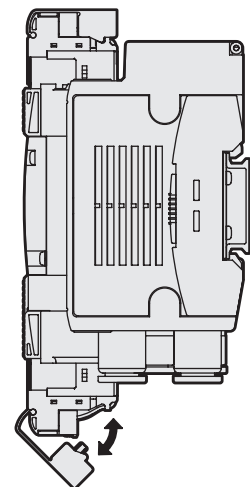
#### ● Dimension lines



Reduced wiring duct closed state



Open state



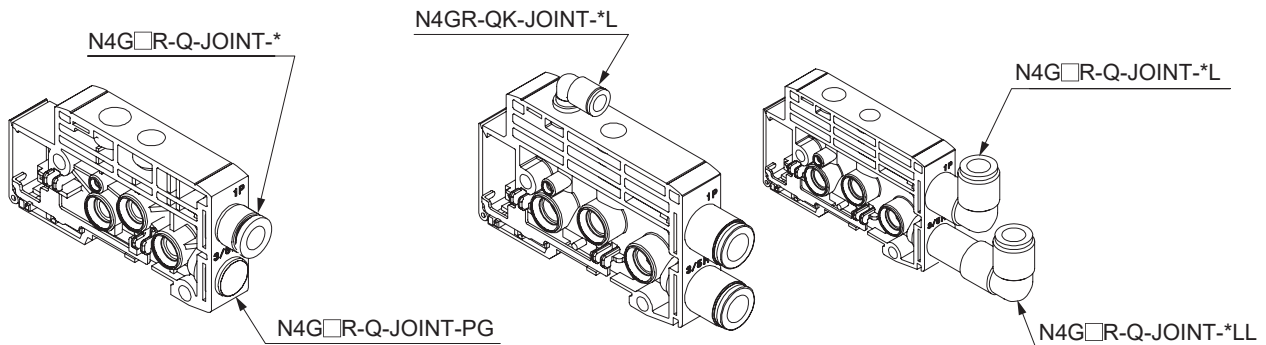
4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
<b>4GB</b> With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GB Series

Block manifold; related parts

## Related parts

### 1. MN4G cartridge push-in fitting for supply and exhaust block



#### 1.1 MN4G1 supply and exhaust block, fitting for 1(P), 3/5(R)

Bore size	Part model No.
ø6 straight	N4G1R-Q-JOINT-6
ø8 straight	N4G1R-Q-JOINT-8
ø6 elbow	N4G1R-Q-JOINT-6L, 6LL
ø8 elbow	N4G1R-Q-JOINT-8L, 8LL
ø1/4" straight	N4G1R-Q-JOINT-6N
ø5/16" straight	N4G1R-Q-JOINT-8N
ø1/4" elbow	N4G1R-Q-JOINT-6LN, 6LLN
ø5/16" elbow	N4G1R-Q-JOINT-8LN, 8LLN
Plug cartridge	N4G1R-Q-JOINT-PG

#### 1.2 MN4G2 supply and exhaust block, fitting for 1(P), 3/5(R)

Bore size	Part model No.
ø8 straight	N4G2R-Q-JOINT-8
ø10 straight	N4G2R-Q-JOINT-10
ø8 elbow	N4G2R-Q-JOINT-8L, 8LL
ø10 elbow	N4G2R-Q-JOINT-10L, 10LL
ø5/16" straight	N4G2R-Q-JOINT-8N
ø3/8" straight	N4G2R-Q-JOINT-10N
ø5/16" elbow	N4G2R-Q-JOINT-8LN, 8LLN
ø3/8" elbow	N4G2R-Q-JOINT-10LN, 10LLN
Plug cartridge	N4G2R-Q-JOINT-PG

#### 1.3 MN4G1/2 common, fitting for 12/14(PA)

Bore size	Part model No.
ø6 straight	N4GR-QK-JOINT-6
ø6 elbow	N4GR-QK-JOINT-6L