

# MN4GD/4GE 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 (mastr)	<ul style="list-style-type: none"> <li>● Valve block with solenoid valve           <ol style="list-style-type: none"> <li>(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 pages 532 and 548.)</li> <li>(2) Solenoid valves are numbered 1, 2, 3... from the left with the fitting in front.</li> </ol> </li> </ul>
4GD/E	
M4GD/E	
MN4GD/E	<ul style="list-style-type: none"> <li>● Supply and exhaust block           <ol style="list-style-type: none"> <li>(1) At the connecting part of each block, a number of blocks can be freely connected.</li> </ol> </li> </ul>
4GA4/B4	<ul style="list-style-type: none"> <li>● End block           <ol style="list-style-type: none"> <li>(1) Install on both sides for individual wiring specifications.</li> <li>(2) Install only on wiring block opposite side for reduced wiring specifications.</li> </ol> </li> </ul>
MN3E MN4E	
W4GA/B2	<ul style="list-style-type: none"> <li>● Partition block           <ol style="list-style-type: none"> <li>(1) Install in combination with supply and exhaust blocks for multi-pressure specifications.</li> </ol> </li> </ul>
W4GB4	
4TB	<ul style="list-style-type: none"> <li>● Mixed block           <ol style="list-style-type: none"> <li>(1) Install when combining 4G1 and 4G2 as a mix on the same DIN rail. This will have the effect of reducing piping.</li> </ol> </li> </ul>
4L2-4/ LMF0	
MN3S0 MN4S0	
4SA/B0	
4KA/B	
4KA/B (mastr)	
4F	
4F (mastr)	
PV5G GMF	
PV5 GMF	
PV5S-0	
3QR 3QB	
MV3QR	
3MA/B0	
3PA/B	
P/M/B	
NP/NAP/ NVP	
4F*0EX	
4F*0E	
HMV HSV	
2QV 3QV	
SKH	
PCD	
Silencer	
TotAirSys (Total Air)	
TotAirSys (Gamma)	
Ending	

# MN4GD/4GE Series

## Block configuration

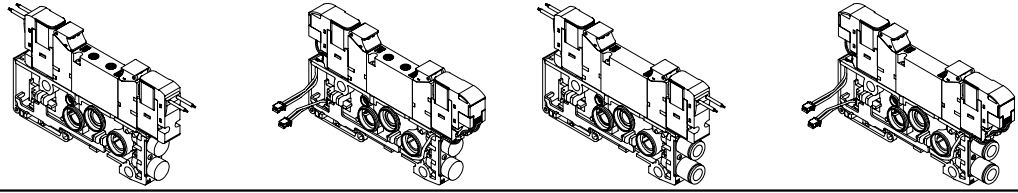
### Block manifold configuration

#### Piping

#### Piping block

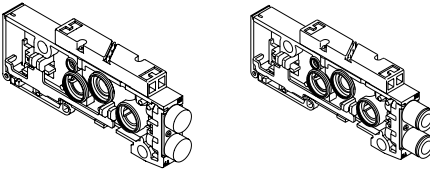
**A** Discrete valve block with solenoid valve

- For body piping individual wiring
- For body piping reduced wiring
- For base piping individual wiring
- For base piping reduced wiring



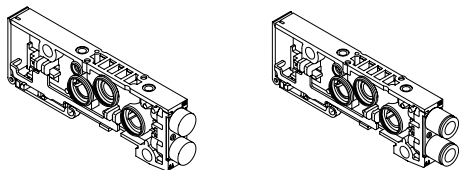
**B** Discrete valve block with masking plate

- For body piping
- For base piping



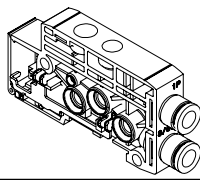
**C** Discrete valve block

- For body piping
- For base piping



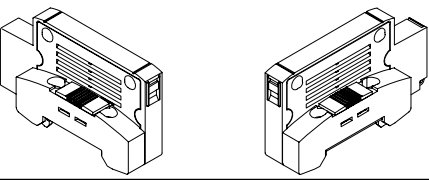
**D** Supply and exhaust block

- For internal pilot

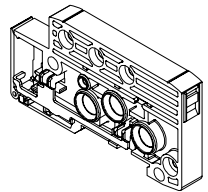


**E** End block

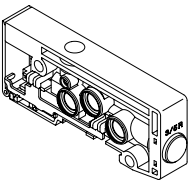
- For left
- For right



**F** Partition block



**G** Mixed block

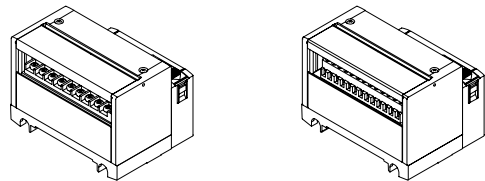


#### Wiring

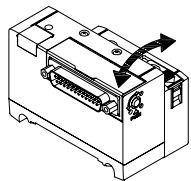
#### Wiring block

**H** Common terminal box

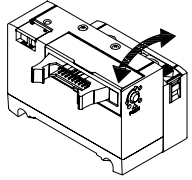
- M3
- Clamping method



**I** D sub-connector block

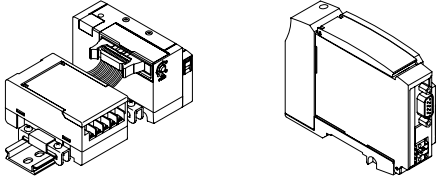


**J** Flat cable connector block



**K** Serial transmission block

- Connector connection
- Thin slot

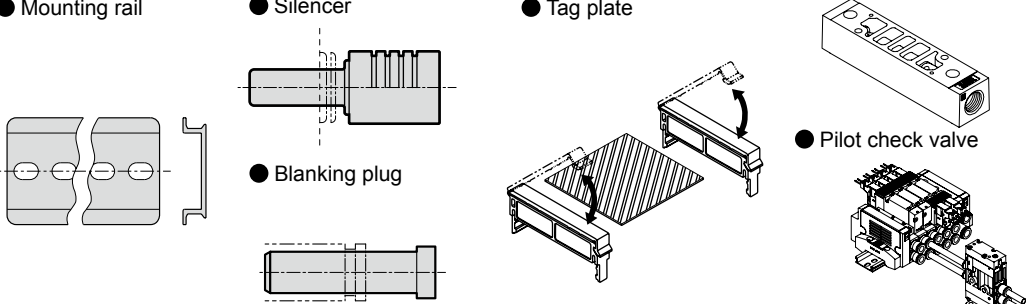


#### Related products

#### Related products

**L** Related products

- Mounting rail
- Silencer
- Tag plate
- Air supply spacer, exhaust spacer
- Blanking plug
- Pilot check valve



4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GD/4GE Series

## Block manifold: Piping section

### 4GA/B Piping

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

Block assembled from solenoid valve body and valve block (split resin base). For model selection, refer to the following pages.  
 Body piping individual wiring: page 518, base piping individual wiring: page 526, body piping reduced wiring: page 534,  
 base piping reduced wiring: page 560

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

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

**N4GA1 R - MP - 3**

**N4GB1 R - MPD - C4 - 3 F**

**A** Model No.    **B** Type    **C** Bore size    **E** Option  
**D** Cable length \*4

A Model No.	B Type	C Bore size (for base piping, this must be configured)
N4GA1	MP For individual wiring	C4 φ4 push-in fitting
N4GA2	MPS For reduced wiring single	C6 φ6 push-in fitting
N4GB1	MPD For reduced wiring double/3-position	C8 φ8 push-in fitting *2
N4GB2		CL4 φ4 radial push-in fitting (upward) *1 *3
		CL6 φ6 radial push-in fitting (upward) *3
		CL8 φ8 radial push-in fitting (upward) *2 *3
		CD4 φ4 radial push-in fitting (downward) *1
		CD6 φ6 radial push-in fitting (downward)
		CD8 φ8 radial push-in fitting (downward) *2

D Cable length *4	E Option
Blank For individual wiring	Blank No option
2 to 10 Select the length from page 567.	F A/B-port filter built in

Single, plug specs	A port	B port
C4NC	φ4 push-in fitting	Plug
C6NC	φ6 push-in fitting	
C8NC	φ8 push-in fitting *2	
C4NO	Plug	φ4 push-in fitting
C6NO		φ6 push-in fitting
C8NO		φ8 push-in fitting *2
CL4NC	φ4 radial push-in fitting (upward) *1 *3	Plug
CL6NC	φ6 radial push-in fitting (upward) *3	
CL8NC	φ8 radial push-in fitting (upward) *2 *3	
CL4NO	Plug	φ4 radial push-in fitting (upward) *1 *3
CL6NO		φ6 radial push-in fitting (upward) *3
CL8NO		φ8 radial push-in fitting (upward) *2 *3
CD4NC	φ4 radial push-in fitting (downward) *1	Plug
CD6NC	φ6 radial push-in fitting (downward)	
CD8NC	φ8 radial push-in fitting (downward) *2	
CD4NO	Plug	φ4 radial push-in fitting (downward) *1
CD6NO		φ6 radial push-in fitting (downward)
CD8NO		φ8 radial push-in fitting (downward) *2

\*4: A socket assembly is attached with purchases for reduced wiring station expansion.  
 Select a cable length from the following page and fill in the **D** cable length field. If ordering with the manifold specifications sheet, the cable length can be omitted.

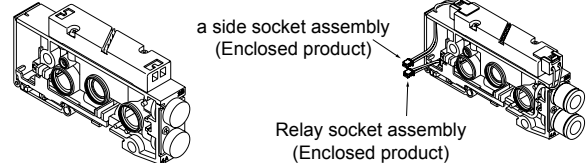
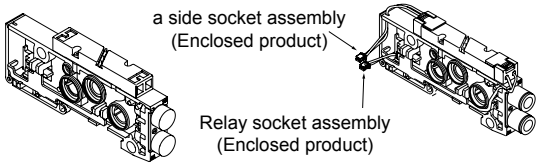
\*1: Only compatible with 4GB1.  
 \*2: Only compatible with 4GB2.  
 \*3: The radial push-in fitting (upward) is only compatible with single solenoids.

N4GA1R-MP

N4GB1R-MPD-C4-3

N4GA2R-MP

N4GB2R-MPD-C6-5



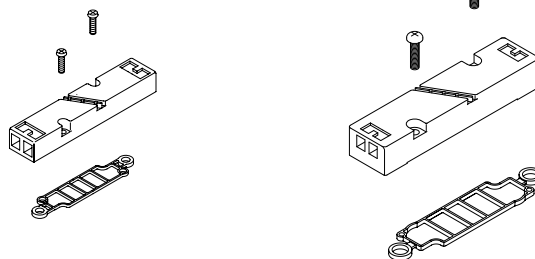
#### B-1. Masking plate

**4G1 R - MP**

4G1R-MP

4G2R-MP

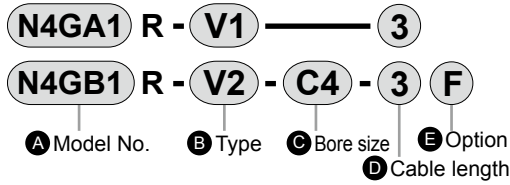
**A** Model No.



### Piping

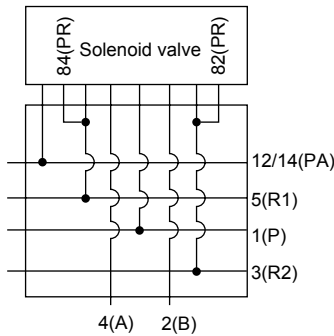
#### C. Discrete valve block (separate item only)

Discrete valve block (split resin base).



A Model No.	B Type	C Bore size (for base piping, this must be configured)				
N4GA1	V1	C4	φ4 push-in fitting	Single, plug specs	A port	B port
N4GA2		C6	φ6 push-in fitting	CL4NO	Plug	φ4 push-in fitting
N4GB1	V2	C8	φ8 push-in fitting *2	CL6NO		φ6 push-in fitting
N4GB2		CL4	φ4 radial push-in fitting (upward) *1 *3	CL8NO	φ8 push-in fitting *2	
		CL6	φ6 radial push-in fitting (upward) *3	CL4NC	φ4 radial push-in fitting (upward) *1 *3	
		CL8	φ8 radial push-in fitting (upward) *2 *3	CL6NC	φ6 radial push-in fitting (upward) *3	Plug
		CD4	φ4 radial push-in fitting (downward) *1	CL8NC	φ8 radial push-in fitting (upward) *2 *3	
		CD6	φ6 radial push-in fitting (downward)	CL4NO	Plug	φ4 radial push-in fitting (upward) *1 *3
		CD8	φ8 radial push-in fitting (downward) *2	CL6NO		φ6 radial push-in fitting (upward) *3
		Single, plug specs	A port	B port	CL8NO	φ8 radial push-in fitting (upward) *2 *3
		C4NC	φ4 push-in fitting	Plug	CD4NC	φ4 radial push-in fitting (downward) *1
		C6NC	φ6 push-in fitting		CD6NC	φ6 radial push-in fitting (downward)
		C8NC	φ8 push-in fitting *2	CD8NC	φ8 radial push-in fitting (downward) *2	
		C4NO	Plug	φ4 push-in fitting	CD4NO	φ4 radial push-in fitting (downward) *1
		C6NO		φ6 push-in fitting	CD6NO	φ6 radial push-in fitting (downward)
		C8NO	φ8 push-in fitting *2	CD8NO	φ8 radial push-in fitting (downward) *2	

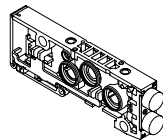
D Cable length	E Option
Blank	Blank
2 to 10	F
Select a length from the following	A/B-port filter built in



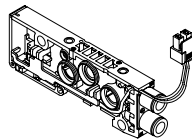
Discrete valve block circuit diagram

\*1: Only compatible with 4GB1.  
 \*2: Only compatible with 4GB2.  
 \*3: The radial push-in fitting (upward) is only compatible with single solenoids.

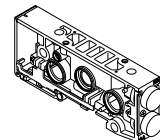
N4GA1R-V1



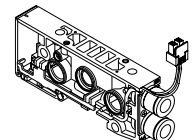
N4GB1R-V2-C4



N4GA2R-V1



N4GB2R-V2-C6



### 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

$$W = (10.5xn) + (16xm) + (10.5xl)$$

· For MN4G2

$$W = (16xn) + (18xm) + (10.5xl)$$

n: number of valve blocks m: number of supply and exhaust blocks l: number of partition blocks

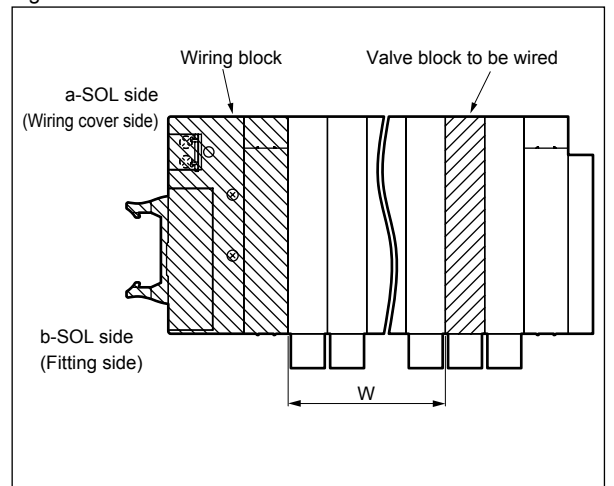
· For MN4GX

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



# MN4GD/4GE Series

## Block manifold: Piping section

### 4GA/B Piping

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

#### 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, the P-port is equipped with a filter.

**N4G1 R-Q-8 X**

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

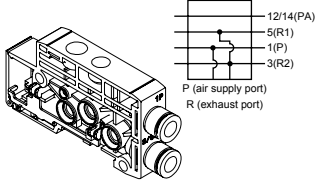
A Type		B Bore size		C Exhaust	
Q	Internal pilot	6	φ6 push-in fitting	Blank	Common exhaust
		6L	φ6 push-in fitting upward	X	Atmospheric release
		6D	φ6 push-in fitting down	(For X, configure atmosphere release for the end block.)	
		8	φ8 push-in fitting		
		8L	φ8 push-in fitting upward		
		8D	φ8 push-in fitting down		

**N4G2 R-Q-10L X**

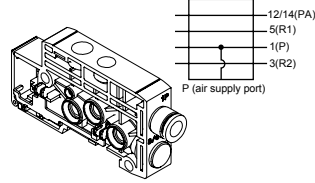
Model No. **A** Type **B** Bore size **C** Exhaust size

A Type		B Bore size		C Exhaust	
Q	Internal pilot	8	φ8 push-in fitting	Blank	Common exhaust
		8L	φ8 push-in fitting upward	X	Atmospheric release
		8D	φ8 push-in fitting down	(For X, configure atmosphere release for the end block.)	
		10	φ10 push-in fitting		
		10L	φ10 push-in fitting upward		
		10D	φ10 push-in fitting down		

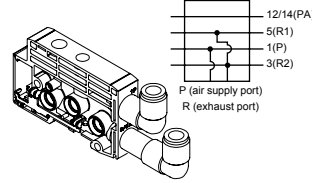
N4G1R-Q-8



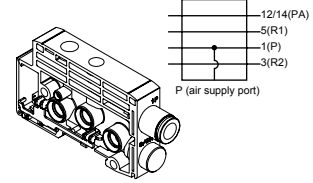
N4G1R-Q-8X



N4G2R-Q-10L



N4G2R-Q-10X



#### 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.

**N4G1 R-E R**

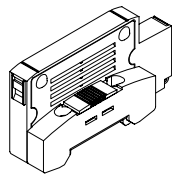
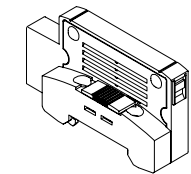
Model No. **A** Type **B** Installation position

Common exhaust		Atmosphere release	
X	12/14(PA)	X	12/14(PA)
X	5(R1)	X	5(R1)
X	1(P)	X	1(P)
X	3(R2)	X	3(R2)

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

N4G1R-EL

N4G1R-ER



**N4G2 R-EX L**

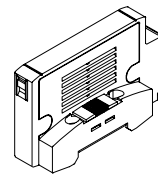
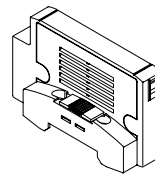
Model No. **A** Type **B** Installation position

Common exhaust		Atmosphere release	
X	12/14(PA)	X	12/14(PA)
X	5(R1)	X	5(R1)
X	1(P)	X	1(P)
X	3(R2)	X	3(R2)

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

N4G2R-EL

N4G2R-ER



### Piping

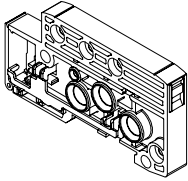
#### F. Partition block

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

**N4G1 R-S**

Model No.    **A** Type

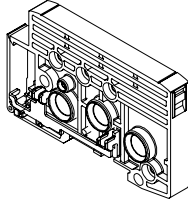
N4G1-S



**N4G2 R-SA**

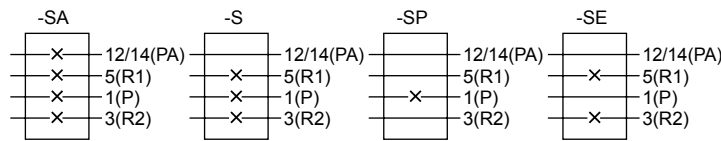
Model No.    **A** Type

N4G2-S



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

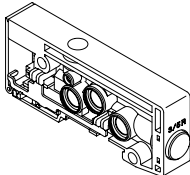


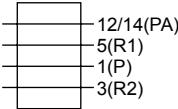
#### G. Mixed block

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.

**N4G12 R-MIX**





4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GD/4GE Series

## Block manifold: Wiring section

4GA/B **Wiring** (Wiring block) \* Wiring block cannot be ordered as a separate item.

### H. Common terminal box

MN4GA/B M3 thread specifications

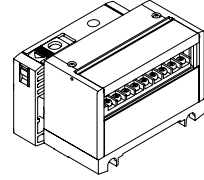
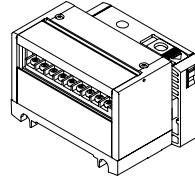
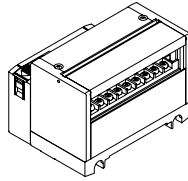
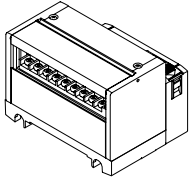
M3 thread specifications

4GA/B (mastr) N4G1R-T10

N4G1R-T10R

N4G2R-T10

N4G2R-T10R



W4GA/B2 Clamping specifications

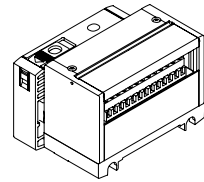
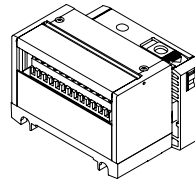
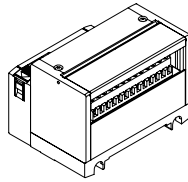
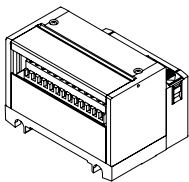
Clamping specifications

W4GB4 N4G1R-T11

N4G1R-T11R

N4G2R-T11

N4G2R-T11R



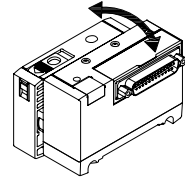
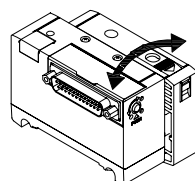
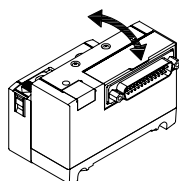
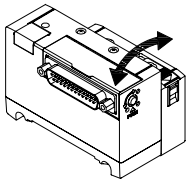
### I. D sub-connector block

4F N4G1R-T30

N4G1R-T30R

N4G2R-T30

N4G2R-T30R



\* Refer to page 597 for the model No. of cables with D sub-connector.

### J. Flat cable connector block

● With power supply terminal

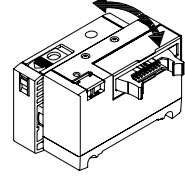
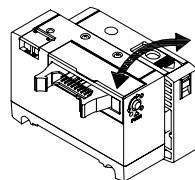
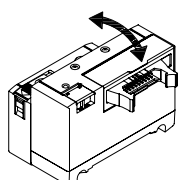
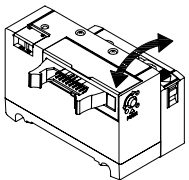
● With power supply terminal

3MA/B0 N4G1R-T50

N4G1R-T50R

N4G2R-T50

N4G2R-T50R



● Without power supply terminal

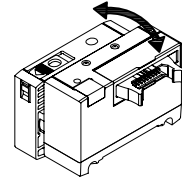
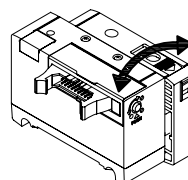
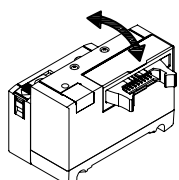
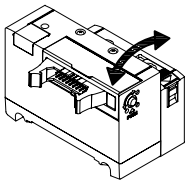
● Without power supply terminal

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

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

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.

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

### K. Serial transmission block

#### ● Connector

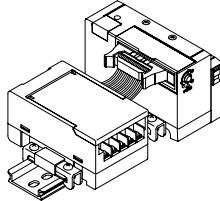
**N4G1 R - T6G1**

Model No. **A** Type

A Type			
T6A0/1	UNIWIRESYSTEM	NPN	8 points/16 pts
T6C0/1	CompoBus/S		8 points/16 pts
T6G1	CC-Link		16 points
T6E0/1	S-LINK		8 points/16 pts
T6J0/1	UNIWIRESYSTEM H		8 points/16 pts

\* T6C0/1 does not support the long-distance communication mode.

N4G1R-T6\*



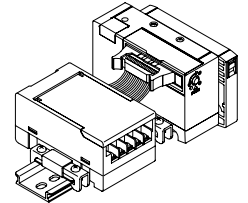
**N4G2 R - T6G1**

Model No. **A** Type

A Type			
T6A0/1	UNIWIRESYSTEM	NPN	8 points/16 pts
T6C0/1	CompoBus/S		8 points/16 pts
T6G1	CC-Link		16 points
T6E0/1	S-LINK		8 points/16 pts
T6J0/1	UNIWIRESYSTEM H		8 points/16 pts

\* T6C0/1 does not support the long-distance communication mode.

N4G2R-T6\*



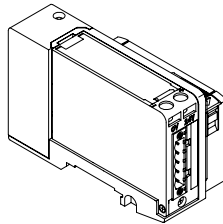
#### ● Thin slot

**N4G1 R - T7D1**

Model No. **A** Type

A Type			
T7C0/1	CompoBus/S	NPN	8 points/16 pts
T7D1	DeviceNet		16 points
T7E0/1	S-LINK		8 points/16 pts
T7G1	CC-Link		16 points
T7L1	SAVE NET		16 points
T7S1	CompoNet		NPN
T7SP1		PNP	

N4G1R-T7\*

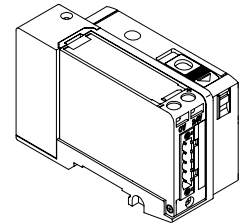


**N4G2 R - T7G1**

Model No. **A** Type

A Type			
T7C0/1	CompoBus/S	NPN	8 points/16 pts
T7D1	DeviceNet		16 points
T7E0/1	S-LINK		8 points/16 pts
T7G1	CC-Link		16 points
T7L1	SAVE NET		16 points
T7S1	CompoNet		NPN
T7SP1		PNP	

N4G2R-T7\*



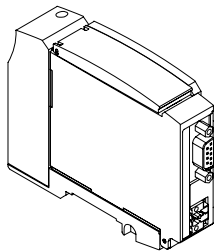
#### ● Discrete serial transmission slave unit (thin slot type)

**N4G1 R - T8G1**

**A** Wiring method

A Wiring method					
T8G1	CC-Link	NPN	16 points		
T8G2			32 points		
T8GP1	(Thin)	PNP	16 points		
T8GP2			32 points		
T8P1	PROFIBUS-DP	NPN	16 points		
T8P2			32 points		
T8PP1			(Thin)	PNP	16 points
T8PP2					32 points
T8EC1	EtherCAT	NPN	16 points		
T8EC2			32 points		
T8ECP1			(Thin)	PNP	16 points
T8ECP2					32 points
T8EN1	EtherNet/IP	NPN	16 points		
T8EN2			32 points		
T8ENP1			(Thin)	PNP	16 points
T8ENP2					32 points

N4G1R-T8\*

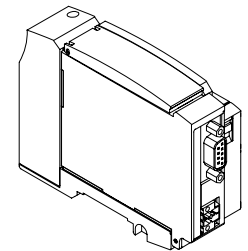


**N4G2 R - T8G1**

**A** Wiring method

A Wiring method					
T8G1	CC-Link	NPN	16 points		
T8G2			32 points		
T8GP1	(Thin)	PNP	16 points		
T8GP2			32 points		
T8P1	PROFIBUS-DP	NPN	16 points		
T8P2			32 points		
T8PP1			(Thin)	PNP	16 points
T8PP2					32 points
T8EC1	EtherCAT	NPN	16 points		
T8EC2			32 points		
T8ECP1			(Thin)	PNP	16 points
T8ECP2					32 points
T8EN1	EtherNet/IP	NPN	16 points		
T8EN2			32 points		
T8ENP1			(Thin)	PNP	16 points
T8ENP2					32 points

N4G2R-T8\*





# MN4GD/4GE Series

## Block manifold: Wiring section

4GA/B **Wiring** (Wiring block) \* Wiring block cannot be ordered as a separate item.

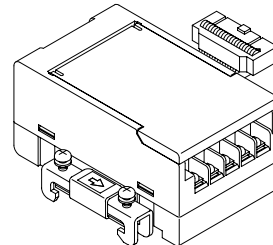
### M4GA/B K. Serial transmission block

MN4GA/B ● Discrete serial transmission slave unit (connector type)

**4GR - OPP3 - 0A**

**A** Wiring method

Code	Content		
<b>A Wiring method</b>			
<b>0A</b>	T6A0	UNIWIRESYSTEM	8 points
<b>1A</b>	T6A1		16 points
<b>0C</b>	T6C0	CompoBus/S	8 points
<b>1C</b>	T6C1		16 points
<b>0E</b>	T6E0	S-LINK	8 points
<b>1E</b>	T6E1		16 points
<b>1G</b>	T6G1	CC-LINK	16 points
<b>0J</b>	T6J0	UNIWIRESYSTEM H	8 points
<b>1J</b>	T6J1		16 points

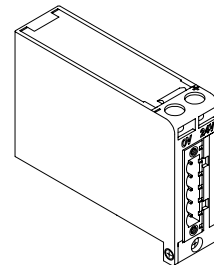


4TB ● Discrete serial transmission slave unit (thin slot)

**4GR - OPP4 - 0CA**

**A** Wiring method

Code	Content		
<b>A Wiring method</b>			
<b>0CA</b>	T7C0	CompoBus/S (thin)	NPN 8 points
<b>1CA</b>	T7C1		16 points
<b>1D</b>	T7D1	DeviceNet (thin)	NPN 16 points
<b>0E</b>	T7E0	S-LINK (thin)	8 points
<b>1E</b>	T7E1		16 points
<b>1G</b>	T7G1	CC-Link (thin)	NPN 16 points
<b>1L</b>	T7L1	SAVE NET (thin)	NPN 16 points
<b>1S</b>	T7S1	CompoNet (thin)	NPN 16 points
<b>1S-P</b>	T7SP1		PNP 16 points

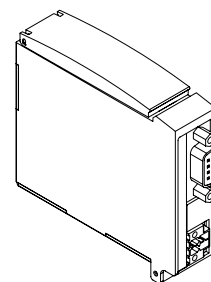


3QR 3QB ● Discrete serial transmission slave unit (thin slot)

**4GR - OPP7 - 2G**

**A** Wiring method

Code	Content		
<b>A Wiring method</b>			
<b>1G</b>	<b>T8G1</b>	CC-Link (thin)	NPN 16 points
<b>2G</b>	<b>T8G2</b>		32 points
<b>1G-P</b>	<b>T8GP1</b>		PNP 16 points
<b>2G-P</b>	<b>T8GP2</b>		32 points
<b>1P</b>	<b>T8P1</b>	PROFIBUS-DP (thin)	NPN 16 points
<b>2P</b>	<b>T8P2</b>		32 points
<b>1P-P</b>	<b>T8PP1</b>		PNP 16 points
<b>2P-P</b>	<b>T8PP2</b>		32 points
<b>1EC</b>	<b>T8EC1</b>	EtherCAT (thin)	NPN 16 points
<b>2EC</b>	<b>T8EC2</b>		32 points
<b>1EC-P</b>	<b>T8ECP1</b>		PNP 16 points
<b>2EC-P</b>	<b>T8ECP2</b>		32 points
<b>1EN</b>	<b>T8EN1</b>	EtherNet/IP (thin)	NPN 16 points
<b>2EN</b>	<b>T8EN2</b>		32 points
<b>1EN-P</b>	<b>T8ENP1</b>		PNP 16 points
<b>2EN-P</b>	<b>T8ENP2</b>		32 points



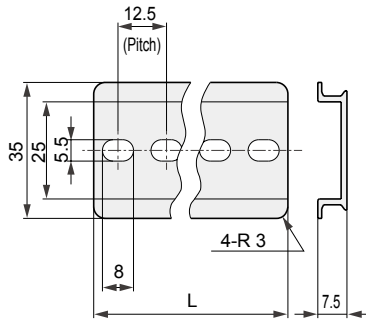
4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

## Related products

Mounting rail, silencer, blanking plug, tag plate

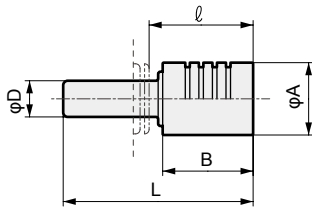
### ● Mounting rail

N4GR-BAA [length]



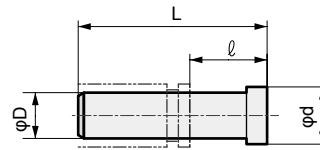
- Minimum length is 87.5 mm.
- Select the length at 12.5 mm pitch.
- Refer to page 587 for details.

### ● Silencer



Model No.	D	L	A	B	ℓ
SLW-H6	φ6	41	16	20	23.5
SLW-H8	φ8	42	16	20	23
SLW-H10	φ10	53	20	27	31.5

### ● Blanking plug



Model No.	D	L	ℓ	d
GWP4-B	φ4	27	11	6
GWP6-B	φ6	29	11.5	8
GWP8-B	φ8	33	14	10
GWP10-B	φ10	40	18.5	12

### ● Tag plates are shipped attached to the manifold body.

When required, mark a circle in the field for tag plates in the manifold specifications on pages 589 to 592.

[Tag holder]

## N4G1 R-TAG-HOLDER

**A Model No.**

**N4G1**

**N4G2**

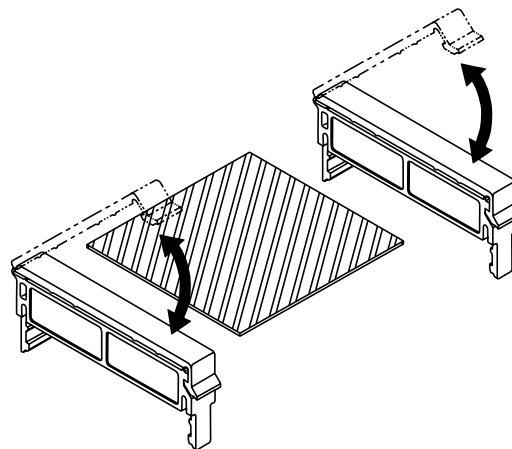
(available in sets of 2.)

[Tag plate]

## N4G1 R-TAG-PLATE- A - 200 \*1

A Model No.	B Type	C Length (mm) *1
N4G1	A	MN4GA1/2 common 200
	B1	For MN4GB1, wide 300
	B2	For MN4GB1, narrow *2 400
N4G2	B	For MN4GB2

- \*1: [Length] Select from 200, 300 and 400 mm and cut to the product length.
- \*2: With the narrow type, manual operation is possible even with the tag plate on.
- \*3: Tag plates will not be attached when spacers are used in the manifold specifications.



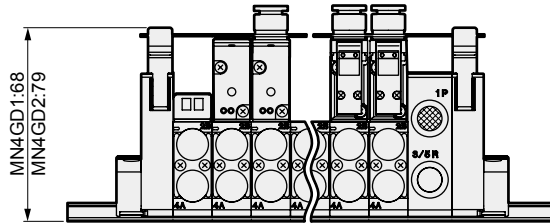
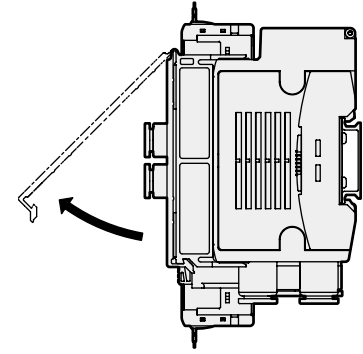
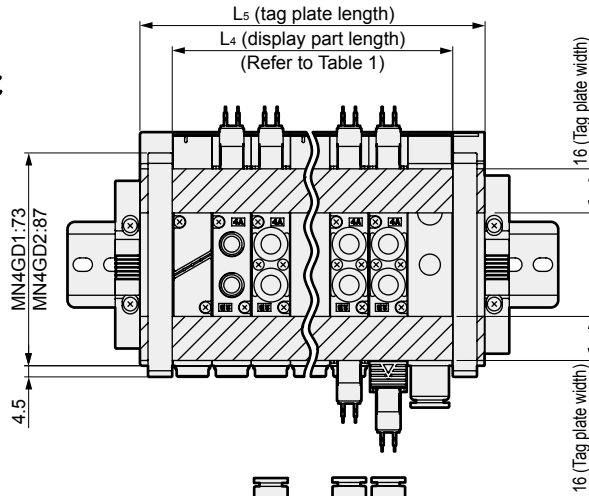
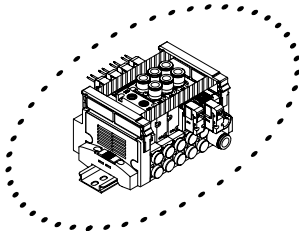
# MN4GD/4GE Series

Block manifold; related products

## Dimensions: Tag plate

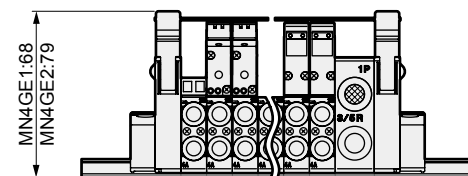
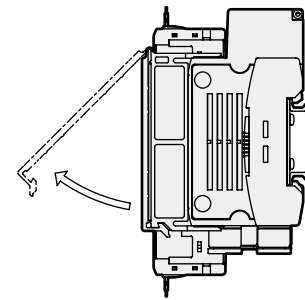
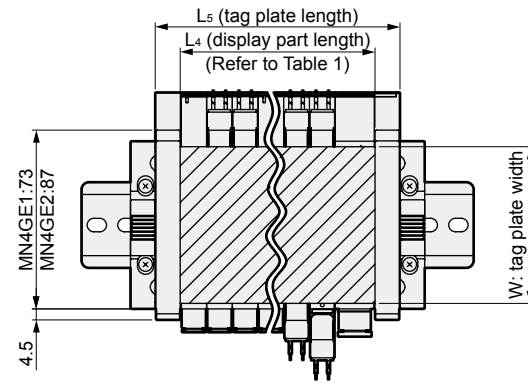
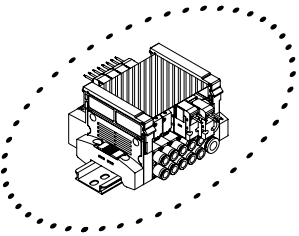
### MN4GD1/2

● Tag plate



### MN4GE1/2

● Tag plate



Model No.	W
N4G1R-TAG-PLATE-B1-length	64
N4G1R-TAG-PLATE-B2-length	30
N4G2R-TAG-PLATE-B-length	45

Table 1: Formula of  $L_5$  (tag plate length)

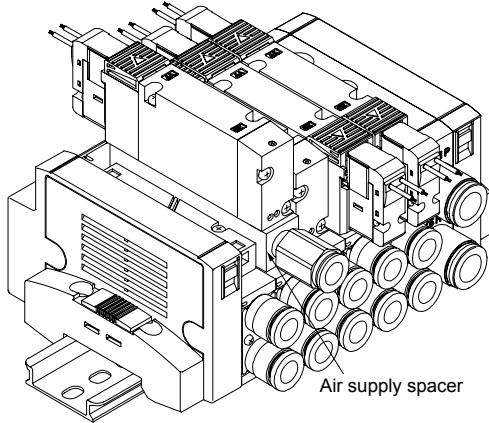
MN4GD			
MN4GD1	Individual wiring		$L_5 = (10.5 \times n) + (16 \times m) + (10.5 \times l) + 20$
MN4GE1	Reduced wiring		$L_5 = (10.5 \times n) + (16 \times m) + (10.5 \times l) + 25$
MN4GD2	Individual wiring		$L_5 = (16 \times n) + (18 \times m) + (10.5 \times l) + 20$
MN4GE2	Reduced wiring		$L_5 = (16 \times n) + (18 \times m) + (10.5 \times l) + 25$

$n$  : number of valve blocks  
 $m$  : number of supply and exhaust blocks  
 $l$  : number of partition blocks

## 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

Code	Content	Model No.			
		4GD1	4GE1	4GD2	4GE2
<b>A Air supply spacer model No.</b>					
1	For 4G1	●			
2	For 4G2			●	
<b>B Port size</b>					
Blank	M5 thread (4G1), Rc thread (4G2)	①		②	
GWS4	φ4 fitting	●			
GWS6	φ6 fitting	●		●	
GWS8	φ8 fitting			●	

is not available.

Attachments: 4G1 set screws (2), dedicated gasket (1)  
4G2 set screws (2), PR check valves (2), body gasket (1)

## ⚠ Precautions for model selection

- \*1 Blank indicates ① M5, ② Rc1/8.
- \*2 Specify the positions and quantity of air supply spacers for manifold in the manifold specifications sheet.
- \*3 If the A/B port fitting is elbow, turn the air supply port of the air supply spacer toward the reverse side ("a" solenoid side).
- \*4 If the elbow (upward) A/B port fitting is used for the reduced wiring manifold, the air supply spacer cannot be selected.
- \*5 Combination with the masking plate is not supported.

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GD/4GE Series

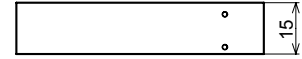
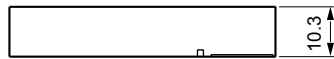
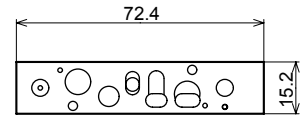
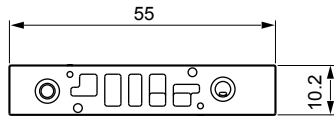
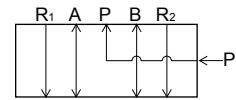
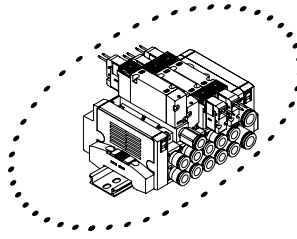
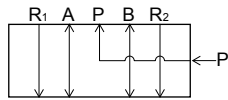
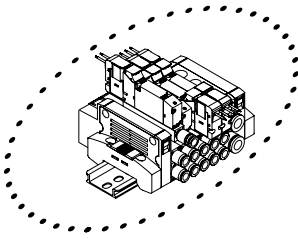
Block manifold; related products

## Dimensions

- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E**
- 4GA4/B4
- MN3E  
MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/  
LMF0
- MN3S0  
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G  
GMF
- PV5  
GMF
- PV5S-0
- 3QR  
3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/  
NVP
- 4F\*0EX
- 4F\*0E
- HMV  
HSV
- 2QV  
3QV
- SKH
- PCD
- Silencer
- TotAirSys  
(Total Air)
- TotAirSys  
(Gamma)
- Ending

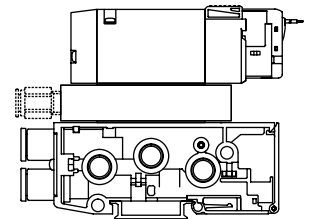
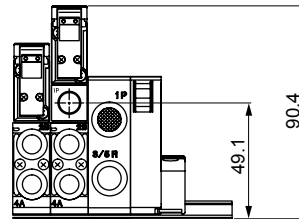
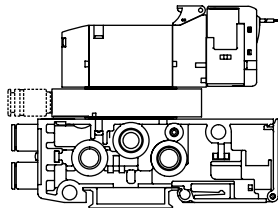
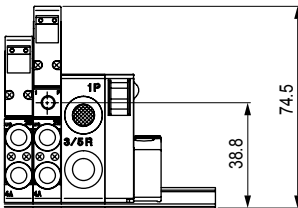
● 4G1

● 4G2



Dimensions when mounted

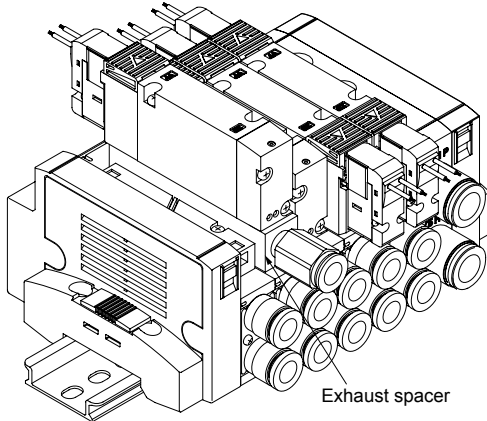
Dimensions when mounted



## Related products

Exhaust spacer/pilot check valve

### ● Exhaust 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	0.94	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

Code	Content	Model No.			
		4GD1	4GE1	4GD2	4GE2
<b>A Exhaust spacer model No.</b>					
1	For 4G1	●			
2	For 4G2			●	
<b>B Port size</b>					
Blank	M5 thread (4G1), Rc thread (4G2)	①		②	
GWS4	φ4 fitting	●			
GWS6	φ6 fitting	●		●	
GWS8	φ8 fitting			●	

is not available.

Attachments: 4G1 set screws (2), dedicated gasket (1)  
4G2 set screws (2), PR check valves (2), body gasket (1)

## ⚠ Precautions for model selection

- \*1 Blank indicates ① M5, ② Rc1/8.
- \*2 Specify the positions and quantity of exhaust spacers for manifold in the manifold specifications sheet.
- \*3 If the A/B port fitting is elbow, turn the exhaust port of the exhaust spacer toward the reverse side ("a" solenoid side).
- \*4 If the elbow upward A/B port fitting is used for the reduced wiring manifold, the exhaust spacer cannot be selected.
- \*5 Combination with the masking plate is not supported.

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# MN4GD/4GE Series

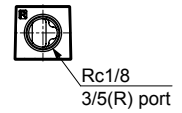
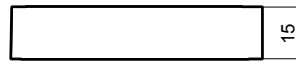
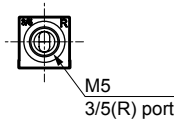
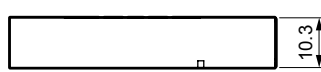
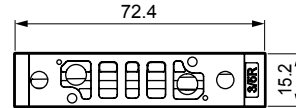
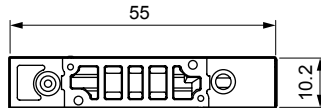
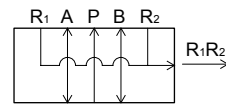
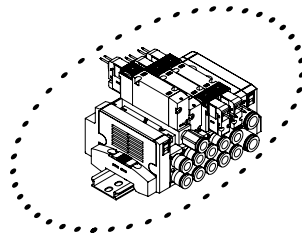
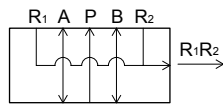
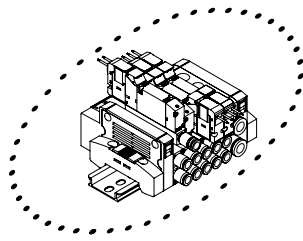
Block manifold; related products

## Dimensions

- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E**
- 4GA4/B4
- MN3E
- MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/LMF0
- MN3S0
- MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G GMF
- PV5 GMF
- PV5S-0
- 3QR
- 3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/NVP
- 4F\*0EX
- 4F\*0E
- HMV
- HSV
- 2QV
- 3QV
- SKH
- PCD
- Silencer
- TotAirSys (Total Air)
- TotAirSys (Gamma)
- Ending

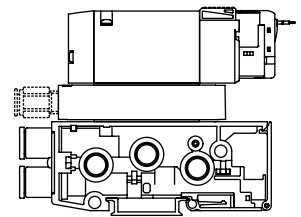
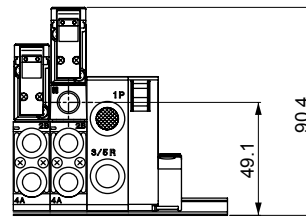
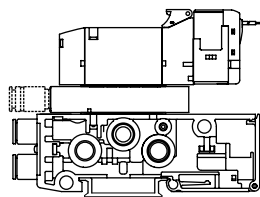
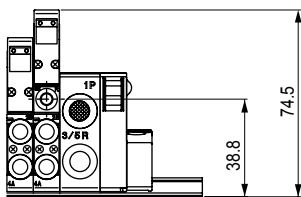
● 4G1

● 4G2

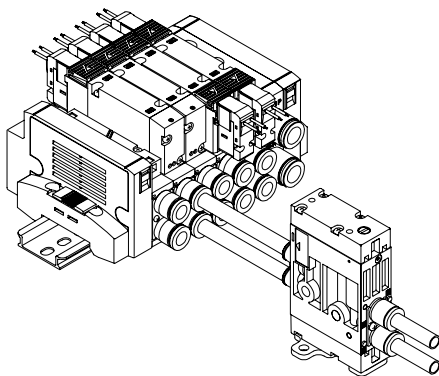


Dimensions when mounted

Dimensions when mounted



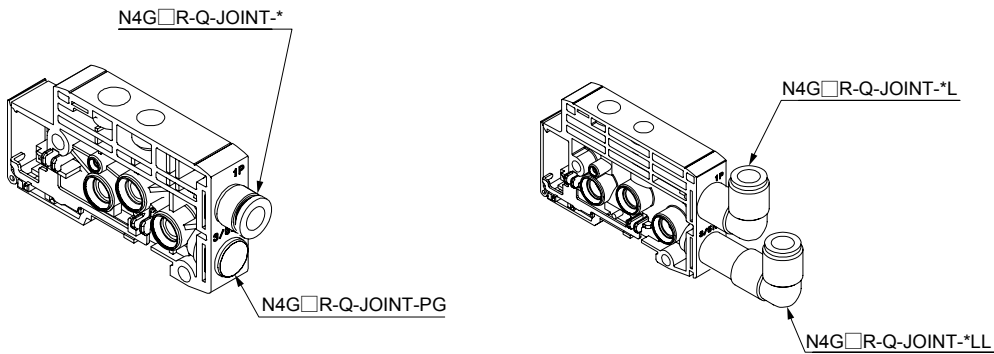
● Pilot check valve



Refer to page 483 for details.

## 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.
φ6 straight	N4G1R-Q-JOINT-6
φ8 straight	N4G1R-Q-JOINT-8
φ6 elbow	N4G1R-Q-JOINT-6L,6LL
φ8 elbow	N4G1R-Q-JOINT-8L,8LL
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.
φ8 straight	N4G2R-Q-JOINT-8
φ10 straight	N4G2R-Q-JOINT-10
φ8 elbow	N4G2R-Q-JOINT-8L,8LL
φ10 elbow	N4G2R-Q-JOINT-10L,10LL
Plug cartridge	N4G2R-Q-JOINT-PG

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending