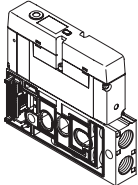
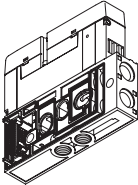
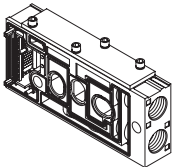
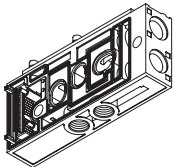
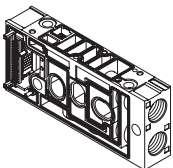
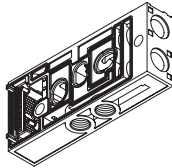


4GA/B	Block manifold: Block configuration	
M4GA/B	As units can be freely assembled, it is easy to change the number of stations, perform maintenance, etc.	
MN4GA/B		
4GA/B (master)	● Valve block with solenoid valve	
4GB With sensor	(1) A necessary number of stations of necessary types of solenoid valves can be arranged.	
4GD/E	However, the max. number of stations depends on the wiring method. (Refer to pages 1124 and 1128.)	
M4GD/E	(2) The solenoid valve No. is numbered in a series as 1, 2, 3 and so forth from the left side with the fitting facing forward.	
MN4GD/E	● End block	
MN4GD/E	(1) Install at both ends of manifold.	
4GA/B4	● Manifold base	
MN3E MN4E	(1) Manifold base alone may be ordered. However, specifications are limited.	
W4GA/B2	(The manifold specifications sheet is not necessary when ordering only the manifold base.)	
W4GB4	Block manifold configuration	Piping Piping block Ⓐ Discrete valve block with solenoid valve ● Base side piping ● Base bottom piping   Ⓑ Discrete valve block with masking plate ● Base side piping ● Base bottom piping   Ⓒ Discrete valve block ● Base side piping ● Base bottom piping  
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		

Block manifold configuration

Piping

Piping block

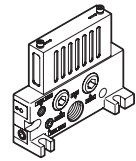
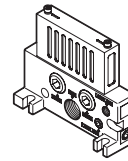
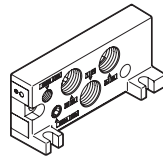
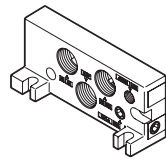
① End block

● Left

● Right

● Left (with silencer box)

● Right (with silencer box)

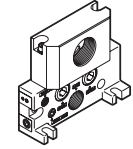
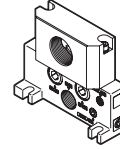
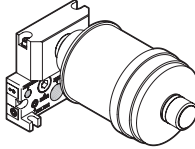
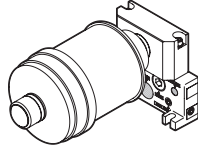


● Left (Common exhaust w/ exhaust cleaner)

● Right (Common exhaust w/ exhaust cleaner)

● Left (Common exhaust w/o exhaust cleaner)

● Right (Common exhaust w/o exhaust cleaner)

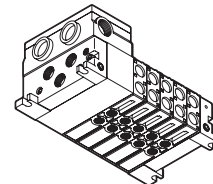
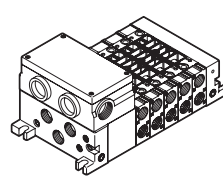
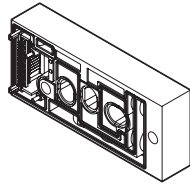


② Partition block

③ Manifold base

● Base side piping

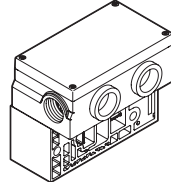
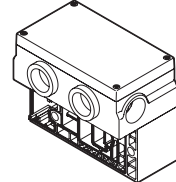
● Base bottom piping



④ Common terminal box

● Left specifications

● Right-sided specifications

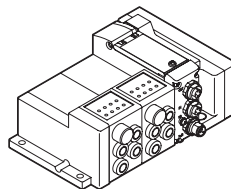
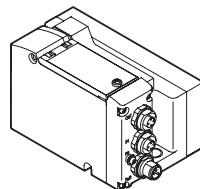


Wiring block

⑤ Serial transmission block

● T7* Left-sided specifications

● T7* Left-sided specifications with I/O type

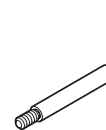
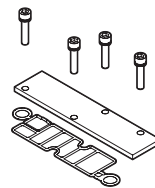
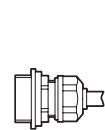


⑥ Related products

● Cable clamp

● Masking plate kit

● Tie rod

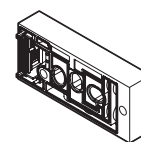


Related products

● Blanking plug

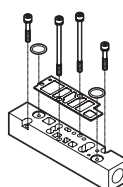
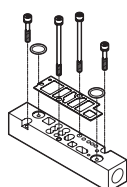
● Partition plug

● Partition block



● Independent supply spacer

● Independent exhaust spacer



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

NW4G Series

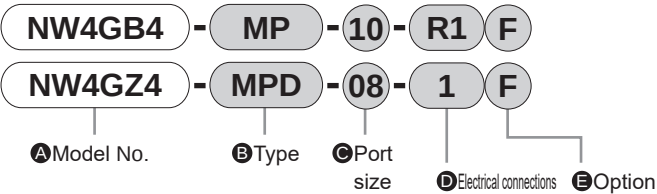
Block manifold; piping section

Piping

A. Discrete valve block with solenoid valve * 2 tie rods are attached.

Block assembled from solenoid valve body and valve block (split metal base).
Refer to pages 1125, 1131 and 1132 for selection guide.

B. Discrete valve block with masking plate * 2 tie rods are attached.



A Model No.		B Type		C Port size [2(B), 4(A) port]		D Electrical connections		E Option	
NW4GB4	Base side piping	MP	Individual wiring	08	Rc1/4	Blank	Reduced wiring DC specifications	Blank	No option
NW4GZ4	Base bottom piping	MPS	Reduced wiring: single standard	10	Rc3/8	R1	I/O connector (for DC, 500 mm)	F	A/B port filter
		MPD	For reduced wiring single/double wiring, reduced wiring double/3-position	08G	G1/4	1	Common term. block AC specs, 1 to 6 stations		
				10G	G3/8 (*1)	2	Common term. block AC specs, 7 to 12 stations		
				08N	NPT1/4	3	Common term. block AC specs, 13 to 16 stations		
				10N	NPT3/8 (*1)				
				C8	ø8 push-in (*1)				
				C10	ø10 push-in (*1)				
				C12	ø12 push-in (*1)				

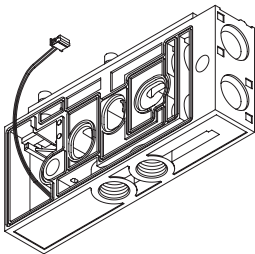
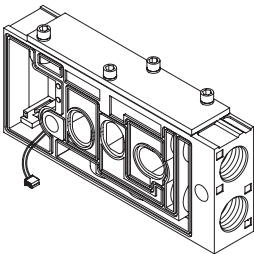
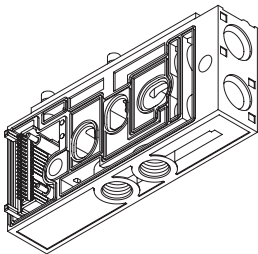
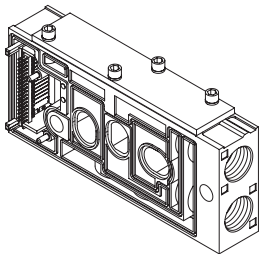
*1: Base bottom piping is not available.

[For DC]
NW4GB

NW4GZ

[For AC]
NW4GB

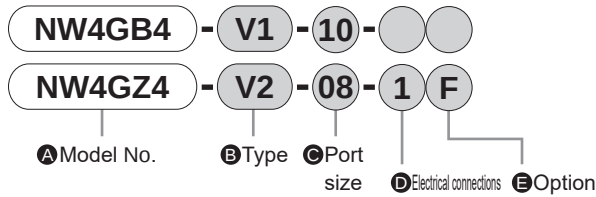
NW4GZ



Piping

C. Discrete valve block (separate item only)

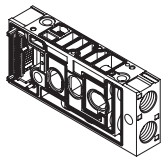
* 2 tie rods are attached.



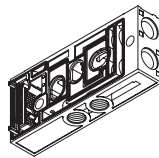
A Model No.	B Type	C Port size [2(B), 4(A) port]	D Electrical connections	E Option
NW4GB4	Base side piping V Individual wiring	08 Rc1/4	Blank Reduced wiring DC specifications	Blank No option
NW4GZ4	Base bottom piping V1 Reduced wiring: single standard	10 Rc3/8	R1 I/O connector (for DC, 500 mm)	F A/B port filter
	V2 For reduced wiring single/double wiring, reduced wiring double/3-position	08G G1/4	1 Common term. block AC specs, 1 to 6 stations	
		10G G3/8 (NW4GB4 only)	2 Common term. block AC specs, 7 to 12 stations	
		08N NPT1/4	3 Common term. block AC specs, 13 to 16 stations	
		10N NPT3/8 (NW4GB4 only)		
		C8 ø8 push-in (NW4GB4 only)		
		C10 ø10 push-in (NW4GB4 only)		
		C12 ø12 push-in (NW4GB4 only)		

[For DC]

NW4GB

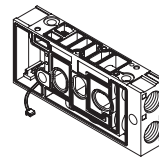


NW4GZ

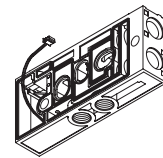


[For AC]

NW4GB



NW4GZ

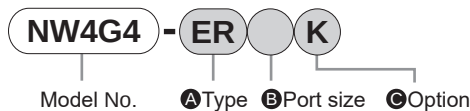


Piping

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

D. End block

An exhaust muffler is built into the atmosphere release.

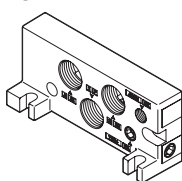


A Type	B Port size [1(P), 3(R2), 5(R1) port]	C Option
EL Common exhaust Left (*1) (*2)	Blank Rc1/2	Blank No option
ER Common exhaust Right (*1) (*2)	G G1/2	K External pilot (*2)
EXL Atm release left side, silencer box (*1) (*2)	N NPT1/2	
EXR Atm release right side, silencer box (*1) (*2)		
ECL Common exhaust block/cleaner left side (*1) (*2)		
ECR Common exhaust block/cleaner right side (*1) (*2)		
ENCL Common exhaust block/cleaner left side (*1) (*2)		
ENCR Common exhaust block/cleaner right side (*1) (*2)		

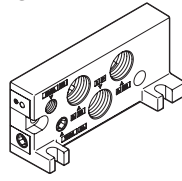
*1: With "EXL", "ECL", or "ENCL" it is only possible to select "ER". With "EXR", "ECR", or "ENCR" it is only possible to select "EL".

*2: With "K" it is only possible to select "EL" or "ER".

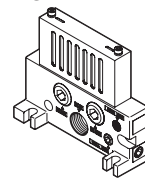
NW4G4-EL



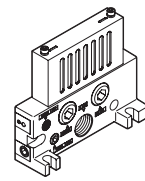
NW4G4-ER



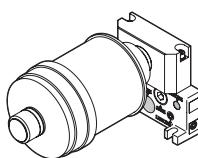
NW4G4-EXL



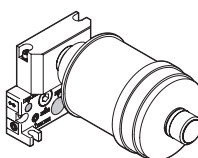
NW4G4-EXR



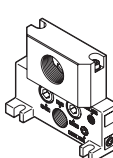
NW4G4-ECL



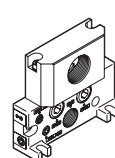
NW4G4-ECR



NW4G4-ENCL



NW4G4-ENCR

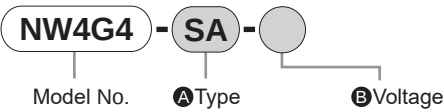


NW4G Series

Block manifold; piping section

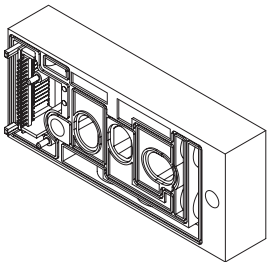
Piping

E. Partition block * 2 tie rods are attached.

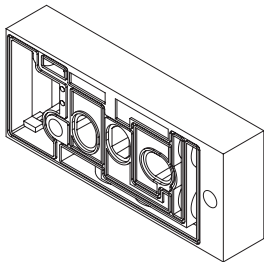


A Type (*1)		B Voltage	
SA	P/R/PA/PR blocked	Blank	For DC
		AC	For AC

[For DC]
NW4G4-SA



[For AC]
NW4G4-SA-AC



Refer to the following page when selecting partition specifications.

Piping

Notes on configuring manifold

- The end blocks differ between the internal pilot and external pilot.
The valve and valve block are common in both types.
- Select a partition block when splitting the pilot flow path [12/14(PA), 82/84(PR)].
The partition plug is only capable of splitting the main flow path [1(P), 5(R1), 3(R2)].

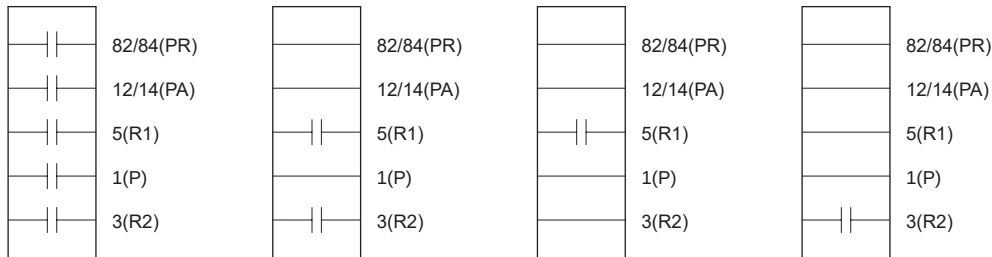
Partition specifications

- By using partition plugs and partition blocks, it is possible to configure various pneumatic systems.
As certain configurations may lead to defects, make selections with a thorough understanding of the features of each unit.

(1) Internal pilot

Partition block used

Partition plug used

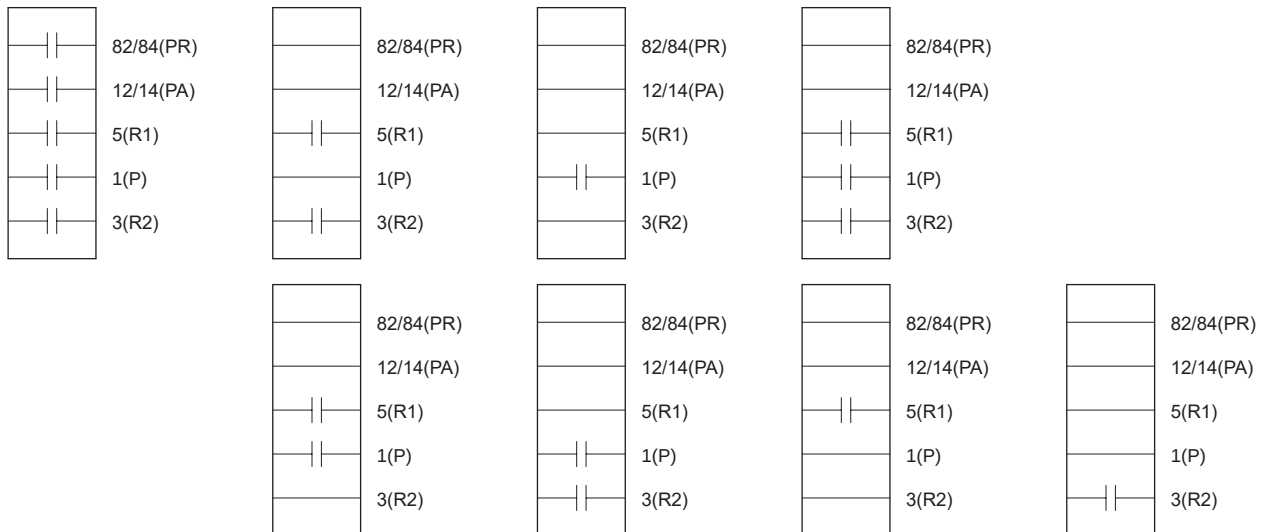


Note. It is not possible to separate the 1(P) flow path with an internal pilot.
This is because the 1(P) flow path and 12/14(PA) flow path are connected with the end block.

(2) External pilot

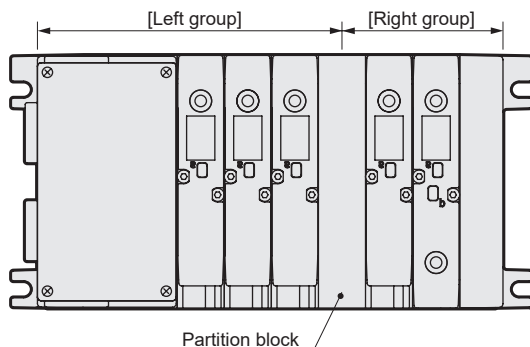
Partition block used

Partition plug used



[Partition block]

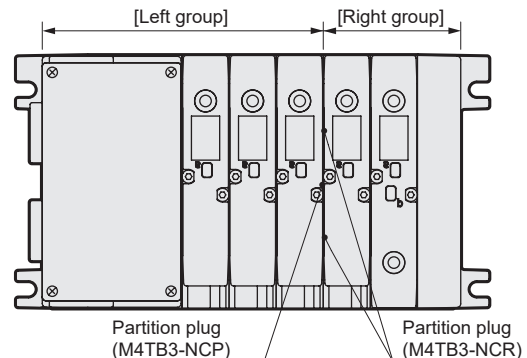
Model No.: NW4G4-SA(-AC)
Listed on page 708



- This separates the main air supply, exhaust, and pilot flow path.
- The dimensions will increase for a block width of 25 mm.

[Partition plug]

Model No.: M4TB3-NC
Listed on page 712



- This can be used without an increase in dimensions.
- It is possible to separate the main air supply and exhaust.

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

NW4G Series

Block manifold; piping section

Piping

F. Manifold base

Manifold base alone may be ordered. However, specifications are limited.

(The manifold specifications sheet is not necessary when ordering only the manifold base.)

Base side piping: **MW4GB4** - **10** - **R1** - **F** - **5** - **3**

Base bottom piping: **MW4GZ4** - **08** **XD** - **T10R** **W** **A** - **6** - **3**

A Model No.

B Port size

C End block

D Wiring method

E Terminal/connector pin array

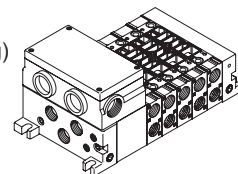
F Option

G Station No.

H Voltage

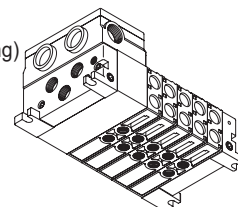
MW4GB4

(Base side piping)



MW4GZ4

(Base bottom piping)



A Model No.		B Port size [2(B), 4(A) port]		C End block		D Wiring method	
NW4GB4	Base side piping	08	Rc1/4	Blank	Common exhaust	R 1	Individual wiring I/O cable outlet (*4)
NW4GZ4	Base bottom piping	10	Rc3/8	XU	Atmosphere release silencer BOX right side (*2)(*3)	T10	Common terminal block (*2)
		08G	G1/4	XD	Atmosphere release silencer BOX left side (*2)(*3)	T10R	Common terminal block (right) (*2)
		10G	G3/8 (*1)	CU	Common exhaust block/with exhaust cleaner Right (*2)(*3)	T30	D-sub-connector (*2) (*5)
		08 N	NPT1/4	CD	Common exhaust block/with exhaust cleaner Left (*2)(*3)	T30R	D-sub-connector (right) (*2) (*5)
		10N	NPT3/8 (*1)	EU	Common exhaust block without exhaust cleaner Right (*2)(*3)	T7EC1	Thin EtherCAT 16 point output(NPN valve output) (*6)
		C8	ø8 push-in (*1)	ED	Common exhaust block without exhaust cleaner left side (*2)(*3)	T7ECP1	Thin EtherCAT 16 point output(PNP valve output) (*6)
		C10	ø10 push-in (*1)	*2 When the wiring connection is for the left side, it is not possible to select "XD", "CD", or "ED". When the wiring connection is for the right side, it is not possible to select "XU", "CU", or "EU".			
		C12	ø12 push-in (*1)				
				*3 With "K" it is only possible to select "Blank".			
				*4 With R1, the voltage is only available with DC specifications.			

*1 Base bottom piping is not available.

*4 With R1, the voltage is only available with DC specifications.

*5 For made to order supported, contact CKD Sales.

6 With T7, the voltage is 24 VDC only.

Terminal/connector pin array method (*7)		E Option		G Station No.		H Voltage	
Blank	Standard wiring	Blank	No option	1	1 stations	1	100 VAC
Y	Double wiring	K	External pilot (*3)	to	to	3	24 VDC
		A	Coolant proof	8	8 stations	4	12 VDC
		F	Port A/B filter			5	110 VAC

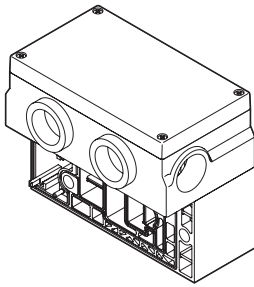
*7 I/O block cannot be selected.

Wiring

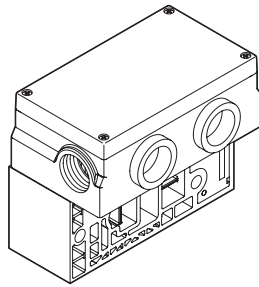
(Wiring block) * Discrete wiring blocks can be ordered only with DC specifications.

G. Common terminal box (T10) * 2 tie rods are attached.

- Left-sided specifications
NW4G4-T10

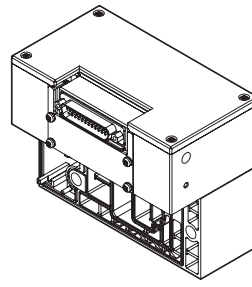


- Right-sided specifications
NW4G4-T10R

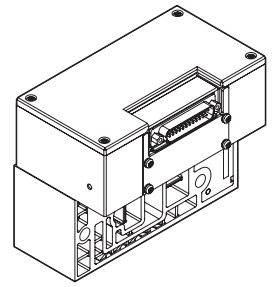


H. D-sub-connector (T30)(For made to order supported, contact CKD Sales)

- Left-sided specifications
NW4G4-T30

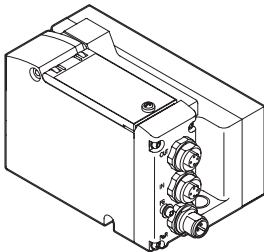


- Right-sided specifications
NW4G4-T30R



I. Serial transmission block * 2 tie rods are attached.

- Left-sided specifications



NW4G4 - T7EC1
A Type

* Contact CKD when ordering a single item.

A Type	
T7EC1	EtherCAT 16 points (NPN output)
T7ECP1	EtherCAT 16 points (PNP output)
T7ECB7	EtherCAT 16 points/16 points (NPN output)
T7ECPB7	EtherCAT 16 points/16 points (PNP output)
T7EN1	EtherNet/IP 16 points (NPN output)
T7ENP1	EtherNet/IP 16 points (PNP output)
T7ENB7	EtherNet/IP 16/16 points (NPN output)
T7ENBP7	EtherNet/IP 16/16 points (PNP output)
T7EB1	CC-Link IEF Basic 16 points (NPN output)
T7EBP1	CC-Link IEF Basic 16 points (PNP output)
T7EBB7	CC-Link IEF Basic 16/16 points (NPN output)
T7EBPB7	CC-Link IEF Basic 16/16 points (PNP output)
T7EP1	PROFINET 16 points (NPN output)
T7EPP1	PROFINET 16 points (PNP output)
T7EPB7	PROFINET 16/16 points (NPN output)
T7EPPB7	PROFINET 16/16 points (PNP output)

Coolant proof specifications

Select option “A” of Item ⑥ in How to order.

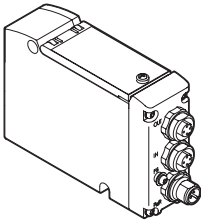
4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys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

NW4G Series

Block manifold; related products

Discrete serial transmission device unit model No.

W4G - **OPP8** - **1EC**
A Type



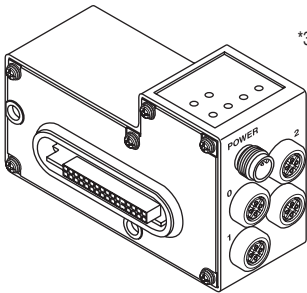
A Type		
1EC	T7EC1	EtherCAT16 points (NPN output)
1EC-P	T7ECP1	EtherCAT16 points (PNP output)
7EC-B	T7ECB7	EtherCAT16 points/16 points (NPN output)
7EC-PB	T7ECPB7	EtherCAT16 points/16 points (PNP output)
1EN	T7EN1	EtherNet/IP 16 points (NPN output)
1EN-P	T7ENP1	EtherNet/IP 16 points (PNP output)
7EN-B	T7ENB7	EtherNet/IP 16 points/16 points (NPN output)
7EN-PB	T7ENBP7	EtherNet/IP 16 points/16 points (PNP output)
1EB	T7EB1	CC-Link IEF Basic 16 points (NPN output)
1EB-P	T7EBP1	CC-Link IEF Basic 16 points (PNP output)
7EB-B	T7EBB7	CC-Link IEF Basic 16 points/16 points (NPN output)
7EB-PB	T7EBPB7	CC-Link IEF Basic 16 points/16 points (PNP output)
1EP	T7EP1	PROFINET 16 points (NPN output)
1EP-P	T7EPP1	PROFINET 16 points (PNP output)
7EP-B	T7EPB7	PROFINET 16 points/16 points (NPN output)
7EP-PB	T7EPPB7	PROFINET 16 points/16 points (PNP output)

M. I/O block * Two tie rods are supplied when it is ordered for expansion.

Side wiring: **NW4GB2** - **OUT** - **N** - **B**
A I/O
B I/O type
C Power supply

A I/O		B I/O type		C Power supply	
IN	Input	N	Sink	K	Shared with serial transmission device unit*1, *2
OUT	Output	P	Source	B	External power supply

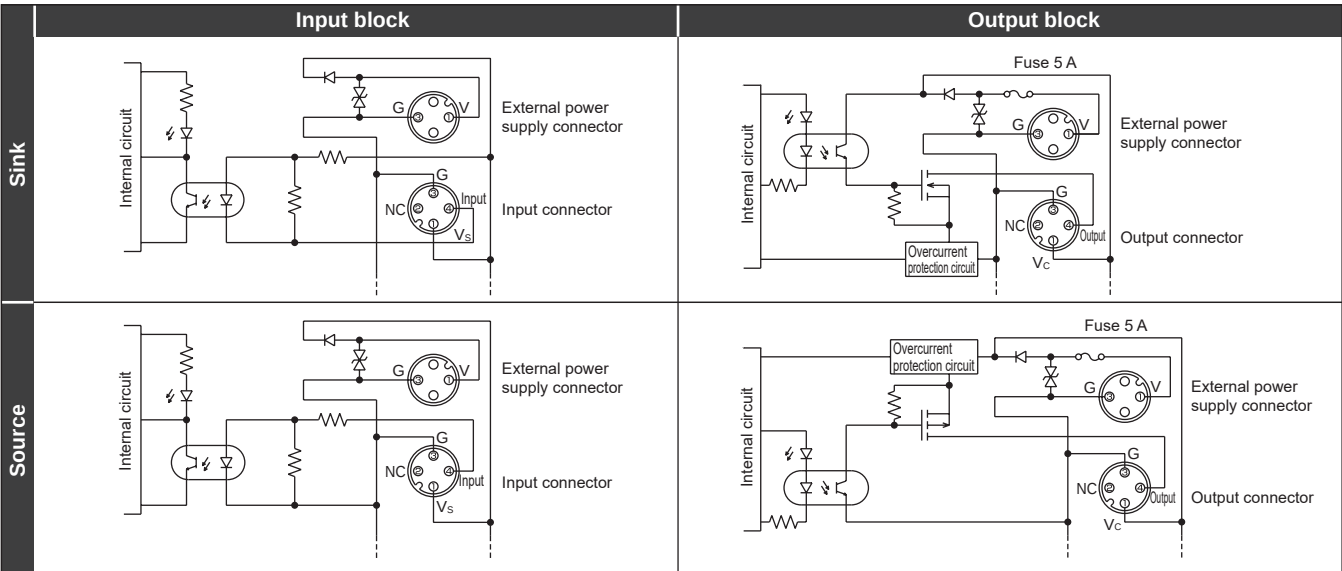
NW4GB2-^{IN}OUT-^NP-^KB



- *1 Output block can be used with external power supply (B) only.
- *2 A waterproof cap is attached as standard to the power supply connector of the power supply shared (K) with the serial transmission device unit.
- *3 When serial transmission device unit is T7, all are side wiring.

* When ordered as manifold component and combined with I/O block, an end block is mounted on the left as standard.

I/O type [Simplified circuit]

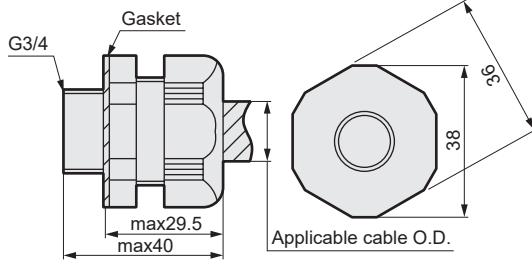


* For wiring methods, refer to page 1087.

Related products

● Cable clamp

For T10



(Reference value)
Cable clamp body tightening torque : 4.0 to 4.5 N·m
Tightening cap tightening torque : 3.0 to 3.5 N·m

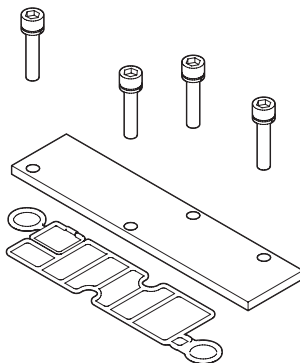
W4G - SCL-18A

● A Type

A Type	
Code	Thread size, applicable cable O.D.
SCL-18A	G3/4, ø14.5 to 16.5
SCL-18B	G3/4, ø16.5 to 18.5

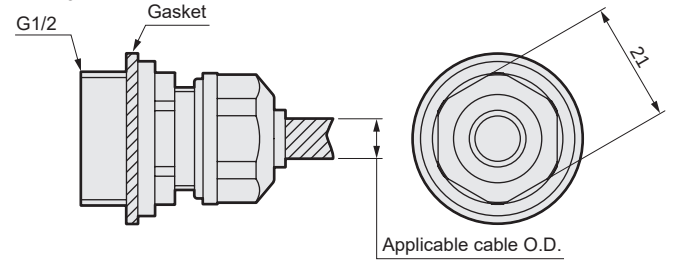
● Masking plate kit

W4G4-MP



* Contents of kit: Masking plate, body gasket, 4 mounting screws

For T6*



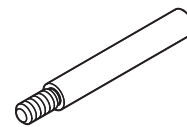
Applicable cable O.D. : ø6 to ø8
(Reference value)
Cable clamp body tightening torque : 2.0 to 2.4 N·m
Tightening cap tightening torque : 0.5 to 0.7 N·m

W4G - OA-W1608C1

● A Type

A Type	
Code	Thread size, applicable cable O.D.
OA-W1608C1	G1/2, ø6 to 8

● Tie rod



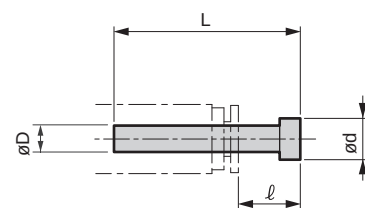
* Set of 2

W4G4 - TR - V1

● A Type

A Type	
V1	For 1 station valve block
V2	For 2 stations valve block
V3	For 3 stations valve block
V4	For 4 stations valve block
V5	For 5 stations valve block
V6	For 6 stations valve block
V7	For 7 stations valve block
V8	For 8 stations valve block

● Blanking plug



Model No.	D	L	l	d
GWP8-B	ø8	33	14	10
GWP10-B	ø10	40	18.5	12
GWP12-B	ø12	43	20	14

● Partition plug

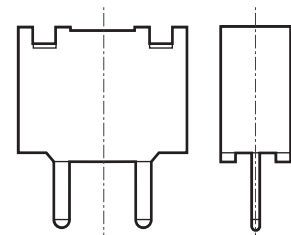
M4TB3-NC



Refer to page 1151.

● Fuse

4T9-LM20



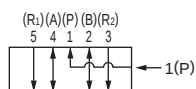
4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G
GMF
PV5
GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP
NVP
4G*0EJ
4F*0EX
4F*0E
HNV
HSV
2QV
3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys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

NW4G Series

Block manifold: related products

Related products

● Independent supply spacer

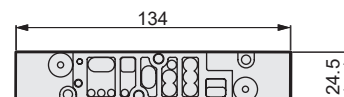


W4G4 - P - 08

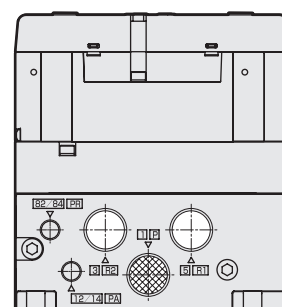
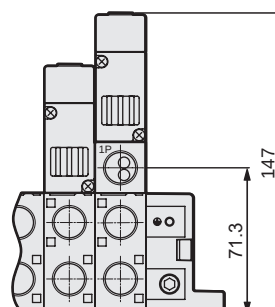
Ⓐ Port size

Ⓐ Port size [1(P) port]

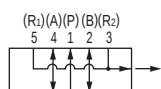
08	Rc1/4
10	Rc3/8
08G	G1/4
10G	G3/8
08N	NPT1/4
10N	NPT3/8



Dimensions when mounted



● Independent exhaust spacer

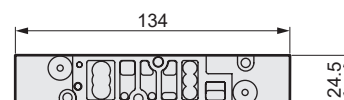


W4G4 - R - 08

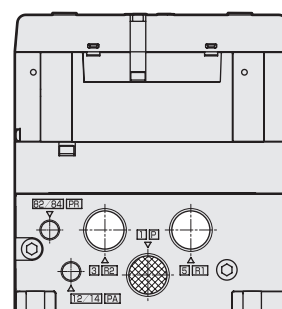
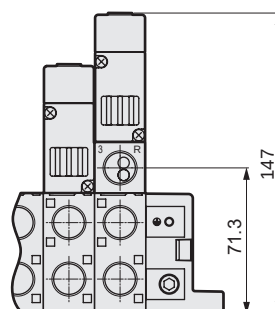
Ⓐ Port size

Ⓐ Port size [3, 5(R) port]

08	Rc1/4
10	Rc3/8
08G	G1/4
10G	G3/8
08N	NPT1/4
10N	NPT3/8



Dimensions when mounted



*1: When exhaust spacers will be adjacent to each other, take care that they do not interfere with the silencer.