

Single unit  
Base side piping/base bottom piping

# W4GB4/W4GZ4 Series

● Cylinder bore size:  $\phi 63$  to  $\phi 125$



(applies to DC voltage)

Refer to the Ending for details.



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

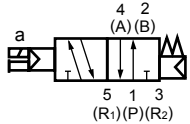
## Common specifications

Descriptions	W4GB4/W4GZ4
Valve and operation	Pilot operated soft spool valve
Working fluid	Compressed air
Max. working pressure MPa	1.0 ( $\approx 150$ psi, 10 bar)
Min. working pressure MPa	0.2 ( $\approx 29$ psi, 2 bar) *3
Proof pressure MPa	1.50 ( $\approx 220$ psi, 15 bar)
Ambient temperature $^{\circ}\text{C}$	-5 ( $23^{\circ}\text{F}$ ) to 55 ( $131^{\circ}\text{F}$ ) (no freezing)
Fluid temperature $^{\circ}\text{C}$	5 ( $41^{\circ}\text{F}$ ) to 55 ( $131^{\circ}\text{F}$ )
Manual override	Non-locking (standard)
Lubrication *1	Not required
Degree of protection *2	Dust proof/jet proof (IP65)
Vibration resistance $\text{m/s}^2$	49 or less
Shock resistance $\text{m/s}^2$	294 or less
Atmosphere	Cannot be used in corrosive gas environments

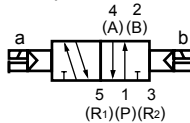
- \*1 : Use turbine oil Class 1 ISO VG32 for lubrication.  
Note that excessive lubricant may cause unstable operation.
- \*2 : Tested according to the test method for IP65 (IEC60529 (IEC529: 1989-11)) standards.  
Refer to page 1074 for details.
- \*3 : The working pressure range is 0 to 1.0 MPa when the external pilot (option code: K) is selected. Set the external pilot pressure between 0.2 and 1.0 MPa.

## JIS symbol

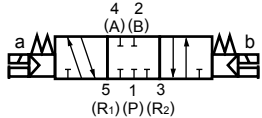
● 5-port valve  
2-position single



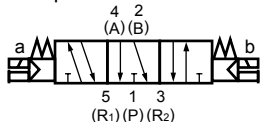
2-position double



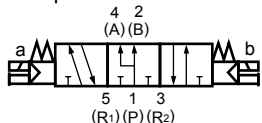
3-position all ports closed



3-position A/B/R connection



3-position P/A/B connection



## Individual specifications

Descriptions	W4GB4	W4GZ4
P/A/B port	Rc1/4, Rc3/8, G 1/4, G 3/8, NPT1/4, NPT3/8	
R port	Rc1/4, Rc3/8, G1/4, G 3/8, NPT 1/4, NPT3/8	Rc1/4, G1/4, NPT1/4
PA/PR port	Rc1/8, G1/8, NPT1/8	Rc1/8, G1/8, NPT1/8

Descriptions	W4GB4/W4GZ4		
		ON	OFF
Response time ms	2-position		
	Single	30	38
	Double	30	-
3-position	ABR connection	50	58

The response time is the value with a supply pressure of 0.5 MPa at 20 $^{\circ}\text{C}$  and with no lubrication. It depends on the pressure and the lubricant quality.

Descriptions	Terminal block	I/O connector
Weight g	2-position	701
	Double	745
	3-position	777

## Flow characteristics

Model No.	Solenoid position	P $\rightarrow$ A/B		A/B $\rightarrow$ R		
		C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
W4GB4	2-position	7.7	0.31	7.3	0.16	
	3-position	All ports closed	6.6	0.19	6.4	0.21
		ABR connection	6.5	0.15	7.3	0.04
		PAB connection	7.4	0.21	7.1	0.16

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

\*2: Values of flow characteristics are for Rc3/8 port size.

## Coolant proof specifications

Can be selected with "How to order" Item  $\text{\textcircled{E}}$  option "A" on page 1011.

Specifications for rechargeable battery (Catalog No. CC-1226A)

● For use in the rechargeable battery manufacturing process, materials used for all parts are limited

\*\* - Voltage - **P40**

# W4GB4/W4GZ4 Series

Single valve; base side piping/base bottom piping

## How to order

● Single unit

**W4GB4** 3 0 — 10 - R1 MF - 3

**W4GZ4** 3 0 — 10 - R1 M7 - 3

● Single sub-plate only

**W4GB4** — SP - 10 - R1 K

**W4GZ4** — SP - 10 - R1 K

● Discrete solenoid valve

**W4GB4** 1 9-00 — M - 3

A Model No.

B Solenoid position

C Port size

D Electrical connections

E Option

F Voltage

A Model No.				
Single unit	Single sub-plate only		Discrete solenoid valve	
W4GB4	W4GZ4	W4GB4	W4GZ4	W4GB4

Code	Content	W4GB4	W4GZ4	W4GB4	W4GZ4	W4GB4
<b>B Solenoid position</b>						
1	2-position single	●	●			●
2	2-position double	●	●			●
3	3-position all ports closed	●	●			●
4	3-position ABR connection	●	●			●
5	3-position PAB connection	●	●			●
<b>C Port size {ports 1(P), 2(B), 4(A)}</b>						
08	Rc1/4	●	●*1	●	●*1	
10	Rc3/8	●	●*1	●	●*1	
08G	G1/4	●	●*2	●	●*2	
10G	G3/8	●		●		
08N	NPT1/4	●	●*3	●	●*3	
10N	NPT3/8	●		●		
<b>D Electrical connections (lamp and surge suppressor provided as standard)</b>						
Blank	Terminal block	●	●	●	●	●
R1	I/O connector (for DC, 500 mm) *4	●	●	●	●	
<b>E Option</b>						
Blank	No option *5 (Lock/no lock model, common manual override when M/M7 not selected.)	●	●			●
M	Non-locking manual override (standard)	●	●			●
M7	Lock with pilot air OFF function *6	●	●			●
K	External pilot	●	●	●	●	
A	Coolant proof	●	●			●
F	A/B port filter	●	●	●	●	
<b>F Voltage</b>						
1	100 VAC	●	●			
3	24 VDC	●	●			●
4	12 VDC	●	●			●
5	110 VAC	●	●			

## ⚠ Precautions for model selection

- \*1: Ports 3 (R2) and 5 (R1) of base bottom piping are Rc1/4.
- \*2: Ports 3 (R2) and 5 (R1) of base bottom piping are G1/4.
- \*3: Ports 3 (R2) and 5 (R1) of base bottom piping are NPT1/4.
- \*4: I/O connector is DC voltage only.
- \*5: Do not select M and M7 when selecting the non-locking/locking common manual override.
- \*6: Includes both the non-locking manual override and the lock with pilot air OFF function. The non-locking/locking common manual override and the lock with pilot air OFF function cannot be selected together.

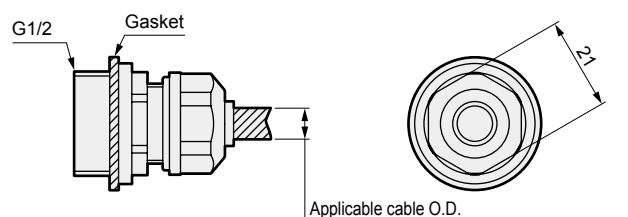
## Electrical connections

Name	Terminal block	I/O connector (for DC)
Code	Blank	R1
Shape		M12 4-pin Male (plug)
Terminal layout		

## Parts kit No. for terminal block

● Cable clamp (with gasket)

Model No.	Content
W4G-OA-W1608C1	Used to protect cables from dust and jetting water.



Applicable cable O.D. :φ6 to φ8  
 Cable clamp body tightening torque : 2.0 to 2.4 N·m  
 Tightening cap tightening torque : 0.5 to 0.7 N·m

- 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

# W4GB4/W4GZ4 Series

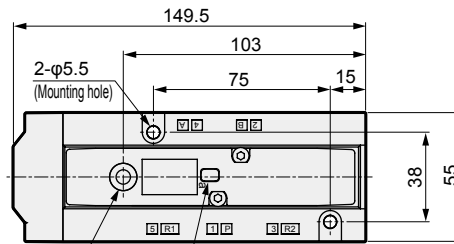
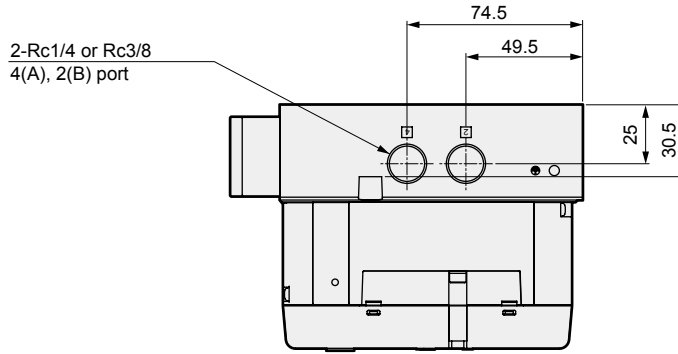
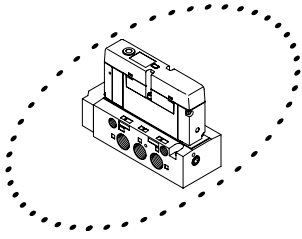
Single valve; base side piping/base bottom piping

## Dimensions

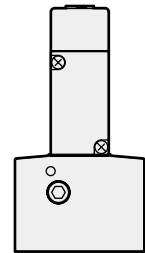
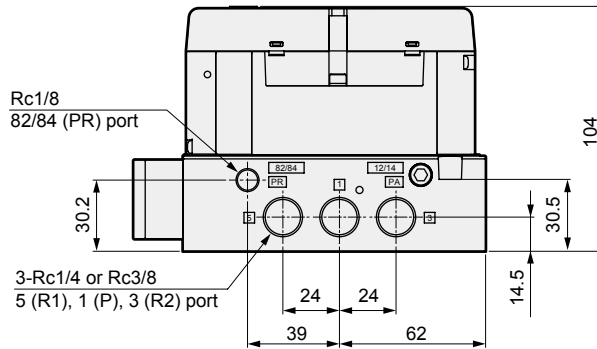
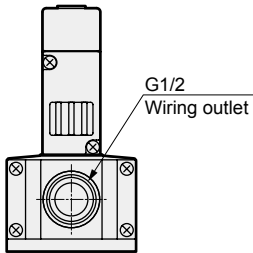
- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E
- MN4E
- W4GA/B2
- W4GB4**
- 4TB
- 4L2-4/LMF0
- MN3S0
- MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G GMF
- PV5 GMF
- PV5S-0
- 3QR
- 3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/NVP
- 4F\*0EX
- 4F\*0E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

### W4GB410 Side piping

● Terminal block (blank)

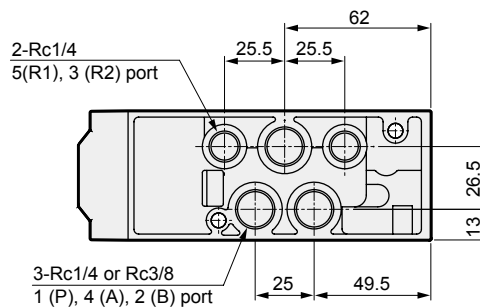
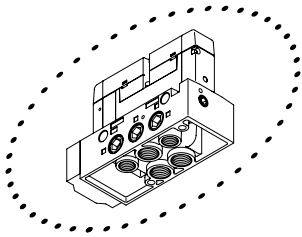


Manual override part    Indicator lamp display



### W4GZ410 Rear piping

● Terminal block (blank)



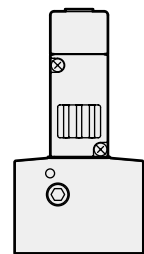
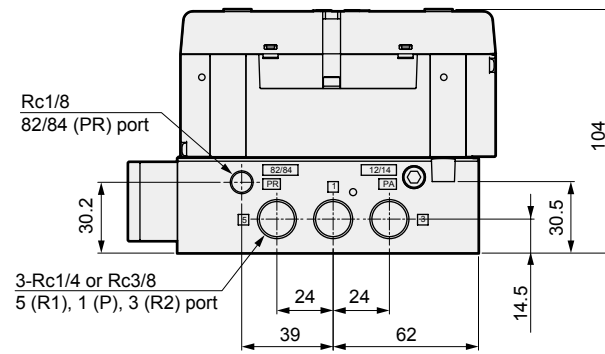
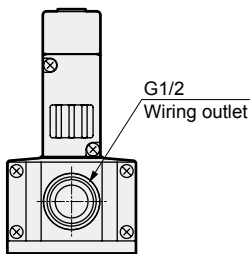
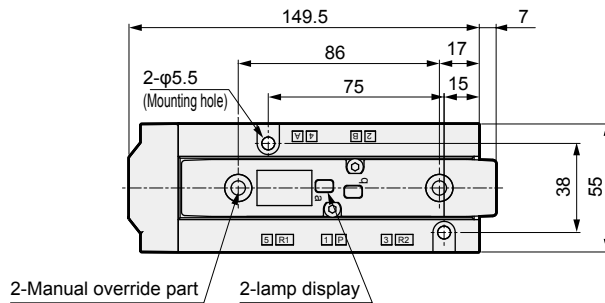
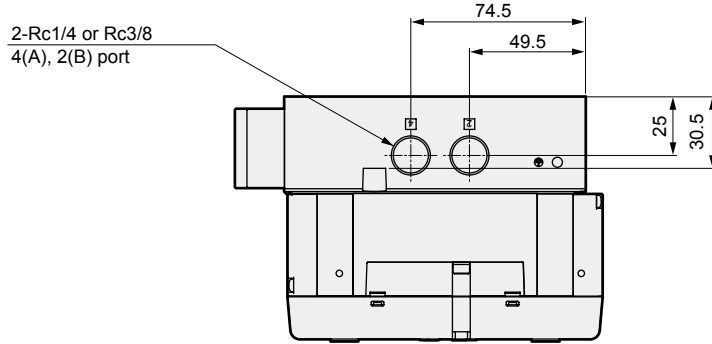
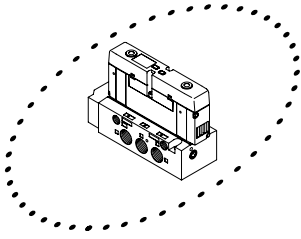
# W4GB4/W4GZ4 Series

Single valve; base side piping/base bottom piping

## Dimensions

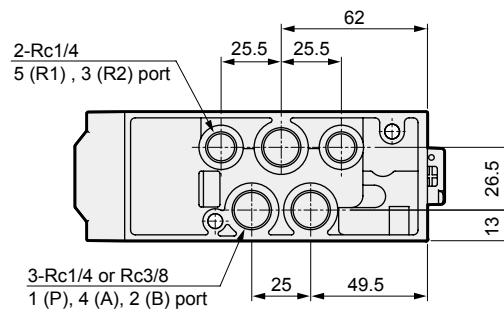
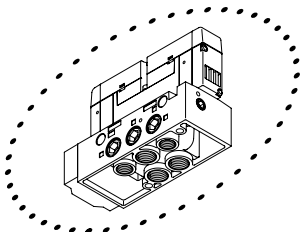
### W4GB420 Side piping

- Terminal block (blank)



### W4GZ420 Rear piping

- Terminal block (blank)



4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
<b>W4GB4</b>
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

# W4GB4/W4GZ4 Series

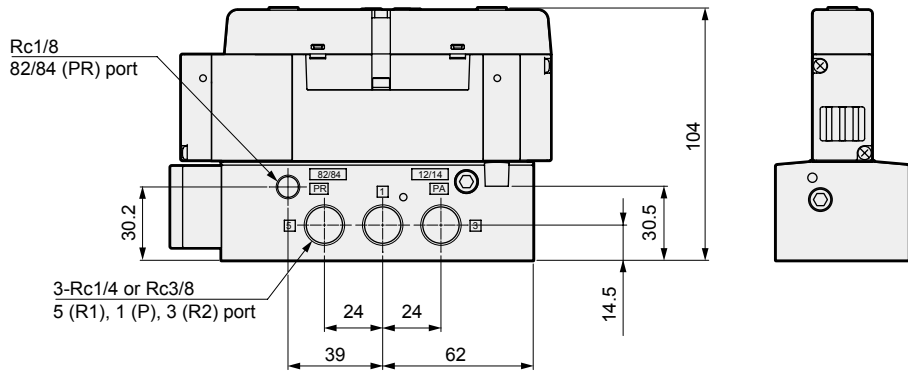
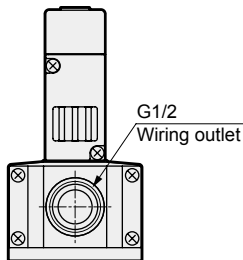
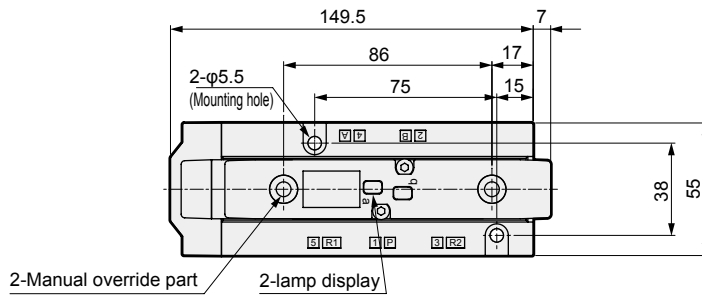
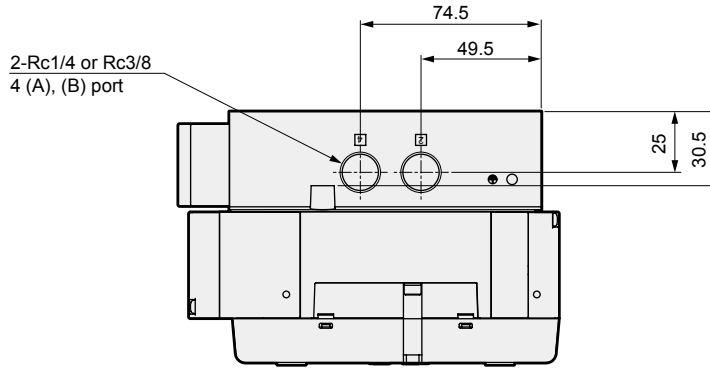
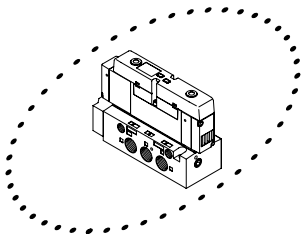
Single valve; base side piping/base bottom piping

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
<b>W4GB4</b>
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

## Dimensions

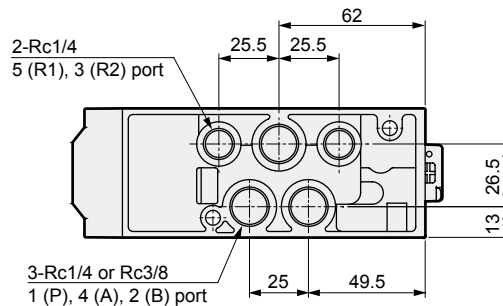
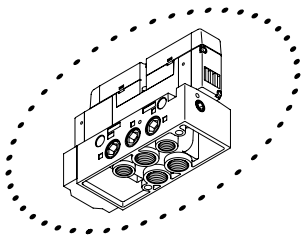
### W4GB<sup>3</sup>/<sub>4</sub>0 Side piping

● Terminal block (blank)



### W4GZ<sup>3</sup>/<sub>4</sub>0 Rear piping

● Terminal block (blank)

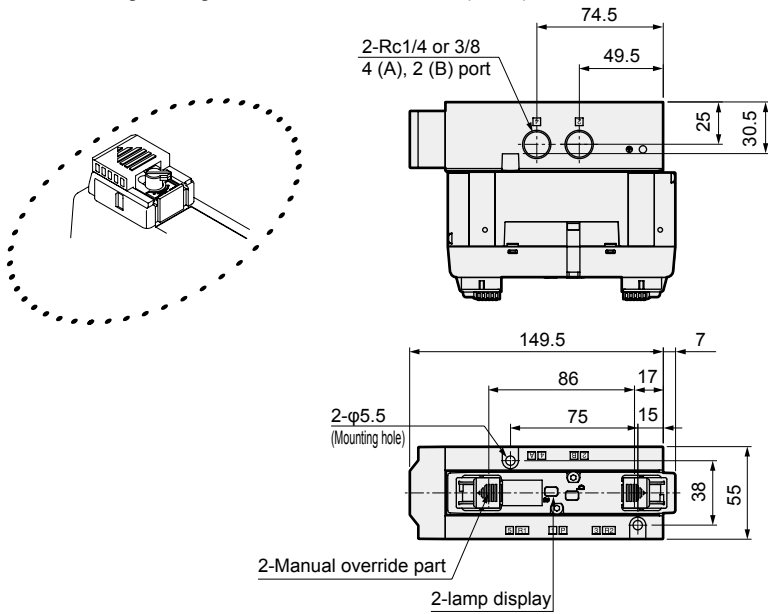


# W4GB4/W4GZ4 Series

Single valve; base side piping/base bottom piping

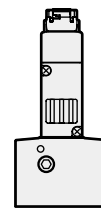
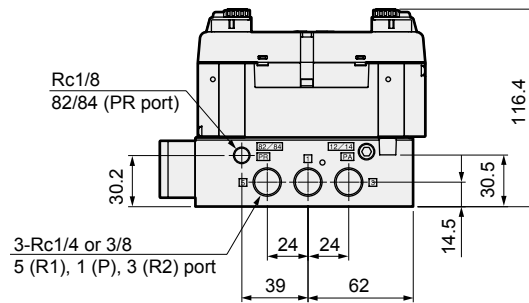
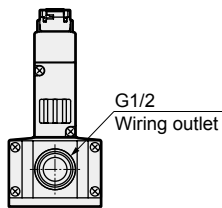
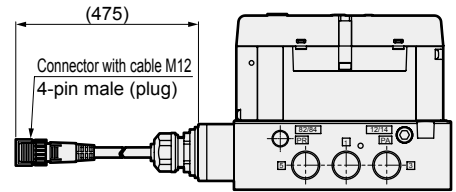
## Dimensions

- Non-locking/locking common manual override (blank)

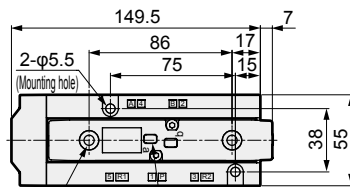
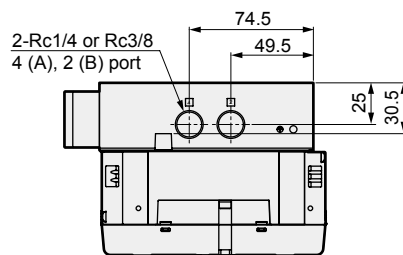
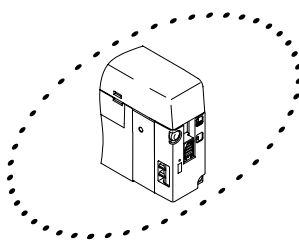


- I/O connector (R1)

Cable used: VA-4DBX05KUG3-CKD276-PG7 (Correns)

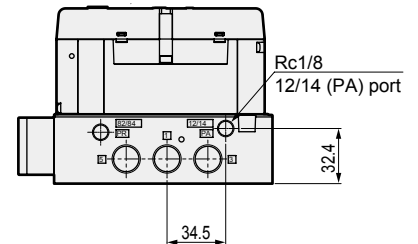


- With pilot air OFF function (M7)

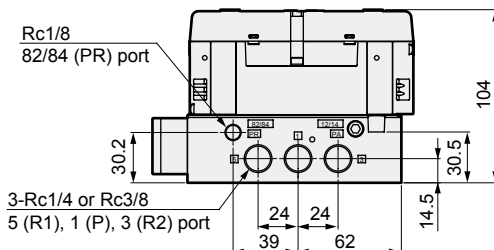
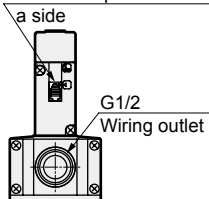


2-Manual override part / 2-lamp display

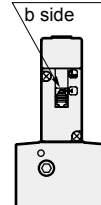
- External pilot (K)



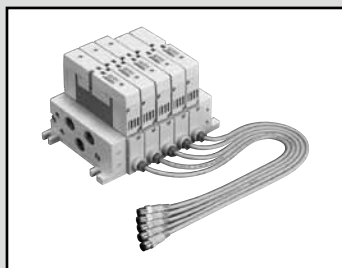
Switch with pilot air OFF function (locking)



Switch with pilot air OFF function (locking)



4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
<b>W4GB4</b>
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



Individual wiring manifold  
Base side piping/base bottom piping

# MW4G<sup>B</sup><sub>2</sub>4-R1 Series

● Cylinder bore size:  $\phi 63$  to  $\phi 125$



Refer to the Ending for details.



## Common specifications

Descriptions	MW4GB4	MW4GZ4
Manifold	Block manifold	
Supply and exhaust method	Common supply/common exhaust	
Pilot exhaust method	Main valve/pilot valve individual exhaust	
Piping direction	Lateral direction from base	Downward from base
Valve and operation	Pilot operated soft spool valve	
Working fluid	Compressed air	
Max. working pressure MPa	1.0 ( $\approx 150$ psi, 10 bar)	
Min. working pressure MPa	0.2 ( $\approx 29$ psi, 2 bar) *3	
Proof pressure MPa	1.5 ( $\approx 220$ psi, 15 bar)	
Ambient temperature °C	-5 (23°F) to 55 (131°F) (no freezing)	
Fluid temperature °C	5 (41°F) to 55 (131°F)	
Manual override	Non-locking (standard)	
Lubrication *1	Not required	
Degree of protection *2	Dust proof/jet proof (IP65)	
Vibration resistance m/s <sup>2</sup>	49 or less	
Shock resistance m/s <sup>2</sup>	294 or less	
Atmosphere	Cannot be used in corrosive gas environments	

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

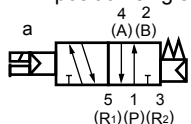
\*2 : Tested according to the test method for IP65 (IEC60529 (IEC529: 1989-11)) standards.  
Refer to page 1074 for details.

\*3 : The working pressure range is 0 to 1.0 MPa when the external pilot (option code: K) is selected. Set the external pilot pressure between 0.2 and 1.0 MPa.

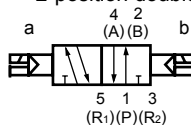
## JIS symbol

● 5-port valve

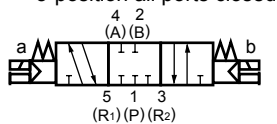
2-position single



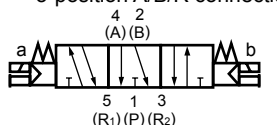
2-position double



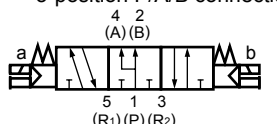
3-position all ports closed



3-position A/B/R connection



3-position P/A/B connection



## Individual specifications

Descriptions	MW4GB4	MW4GZ4
Max. station No.	16	
Port size	P port	Rc1/2, G1/2, NPT1/2
	A/B port	Rc1/4, Rc3/8, G1/4, G 3/8, NPT 1/4, NPT 3/8, Push-in fitting $\phi 8$ , $\phi 10$ , $\phi 12$
	R port	Rc1/2, G1/2, NPT1/2
	PA/PR port	Rc1/8, G1/8, NPT1/8

For weight, refer to page 1018.

Descriptions	MW4GB4/MW4GZ4		
		ON	OFF
Response time ms	2-position	Single	30
		Double	30
	3-position	ABR connection	50

The response time is the value with a supply pressure of 0.5 MPa at 20°C and with no lubrication. It depends on the pressure and the lubricant quality.

## Flow characteristics

Model No.	Solenoid position	P → A/B		A/B → R		
		C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
W4GB4	2-position	7.4	0.24	7.9	0.30	
	3-position	All ports closed	6.4	0.22	7.1	0.32
		ABR connection	6.4	0.17	8.3	0.28
		PAB connection	7.1	0.16	7.4	0.28

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

\*2: Values of flow characteristics are for Rc3/8 port size.

## Coolant proof specifications

Can be selected with "How to order" Item ⑤ option "A" on page 1017.

## Specifications for rechargeable battery (Catalog No. CC-1226A)

● For use in the rechargeable battery manufacturing process, materials used for all parts are limited

\*\* - Voltage - **P40**



# MW4G<sup>B</sup>Z4-R1 Series

Individual wiring manifold, base side piping/base bottom piping

## How to order

Individual wiring I/O connector

● Manifold model No.

**MW4GB4** 8 0 - 10 - R1 M - 6 - 3

**MW4GZ4** 8 0 - 08 - R1 M - 6 - 3

● Discrete valve block with solenoid valve

**NW4GB4** 1 0 - 10 - R1 M7 — 3

**NW4GZ4** 1 0 - 08N - R1 M7 — 4

● Discrete solenoid valve

**W4GB4** 1 9 - 00 — M — 3

● A Model No.

● B Solenoid position

● C Port size

● D Electrical connections

● E Option

● F Station No.

● G Voltage

## ⚠ Precautions for model selection

Be sure to fill in the "Manifold specifications sheet".

\*1 : Do not select M and M7 when selecting the non-locking/locking common manual override.

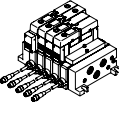
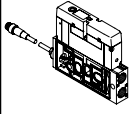
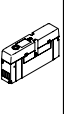
\*2 : Includes both the non-locking manual override and the lock with pilot air OFF function. The non-locking/locking common manual override and the lock with pilot air OFF function cannot be selected at the same time.

\*3 : Specify the spacer mounting position and quantity in manifold specifications sheet. Combination with the masking plate is not supported. Multiple stacked assemblies of spacers are available as custom order. For details on air supply spacer and exhaust spacer, refer to page 1046.

\*4 : Common for the internal and external pilot.

\*5 : A filter is built into the P port as standard.

\*6 : Available as custom order.

A Model No.				
Manifold		Discrete valve block with solenoid valve		Discrete solenoid valve
				
MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4

Code	Content	MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4
<b>B Solenoid position</b>						
1	2-position single	●	●	●	●	●
2	2-position double	●	●	●	●	●
3	3-position all ports closed	●	●	●	●	●
4	3-position ABR connection	●	●	●	●	●
5	3-position PAB connection	●	●	●	●	●
8	Mix manifold (when there are multiple solenoid positions)	●	●			
<b>C Port size {2(B), 4(A) port}</b>						
08	Rc1/4	●	●	●	●	
10	Rc3/8	●	●	●	●	
08G	G1/4	●	●	●	●	
10G	G3/8	●		●		
08N	NPT1/4	●	●	●	●	
10N	NPT3/8	●		●		
C8	φ8 push-in	●		●		
C10	φ10 push-in	●		●		
C12	φ12 push-in	●		●		
CX	Push-in fitting mix	●				
HX	Screw-in mix	●	●			
<b>D Electrical connections (lamp and surge suppressor provided as standard)</b>						
R1	I/O connector (500 mm)	●	●	●	●	
<b>E Option</b>						
Blank	No option (Lock/no lock model, common manual override when M/M7 not selected.) *1	●	●	●	●	●
M	Non-locking manual override (standard)	●	●	●	●	●
M7	Lock with pilot air OFF function *2	●	●	●	●	●
Z1	Air supply spacer *3	●	●			
Z3	Exhaust spacer *3	●	●			
Z7	Spacer regulator *3, *6	●	●			
K	External pilot	●	●	*4	*4	*4
A	Coolant proof	●	●	●	●	●
F	A/B port filter *5	●	●	●	●	
<b>F Station No.</b>						
1	1 station					
to	to	●	●			
16	16 stations					
<b>G Voltage</b>						
3	24 VDC	●	●	●	●	●
4	12 VDC	●	●	●	●	●

■ is not available.

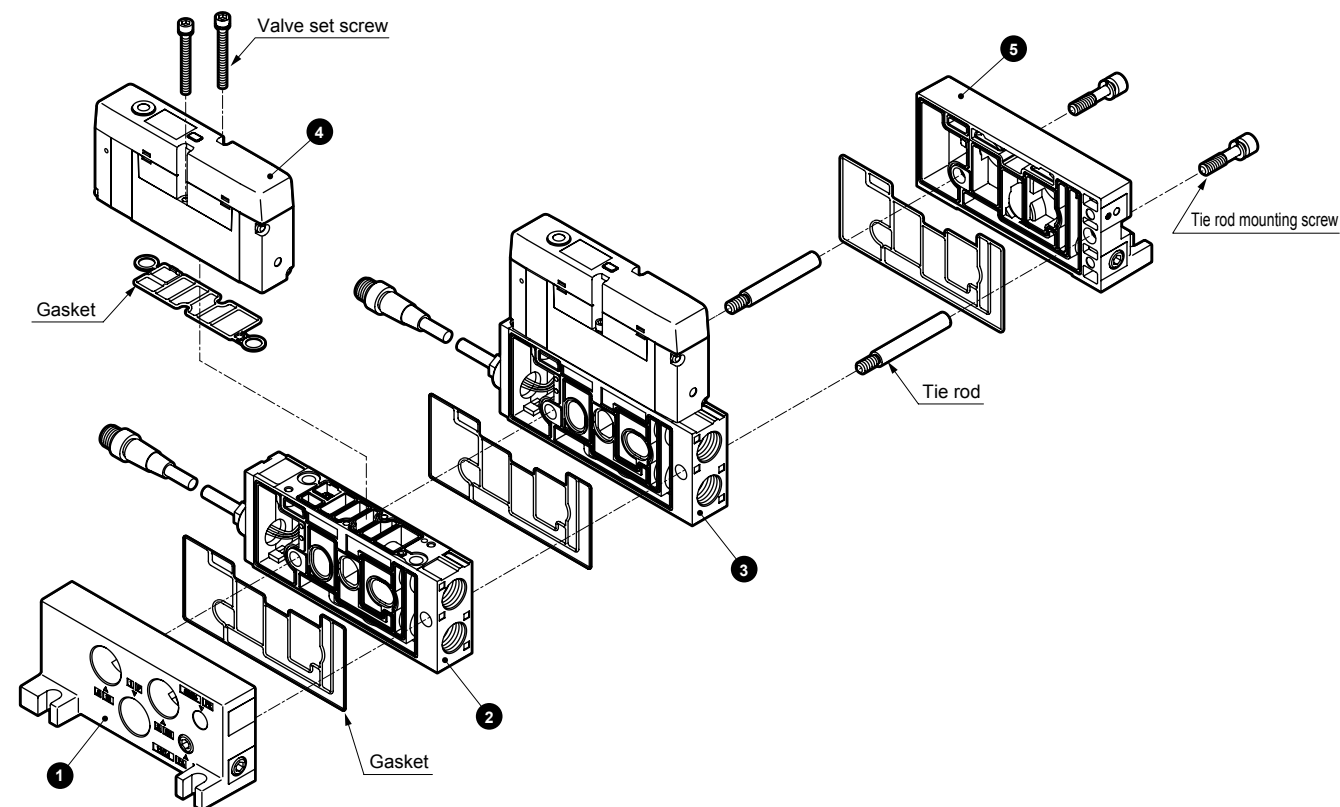
4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
<b>W4GB4</b>
4TB
4L2-4/LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys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



# MW4G<sup>B</sup>Z4-R1 Series

Individual wiring manifold, base side piping/base bottom piping

## Manifold components explanation and parts list



### List of main components (refer to pages 1036 to 1047 for details)

No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
1	End block L	NW4G4-EL	4	Discrete solenoid valve	W4GB419-00-M-3
2	Discrete valve block	NW4GB4-V-10-R1	5	End block R	NW4G4-ER
3	Discrete valve block with solenoid valve	NW4GB410-10-R1M-3			

### Component weight (DC)

Components		Model No.	Weight	Components		Model No.	Weight
End block		NW4G4-EL	316	Exhaust spacer		W4G4-R-10	189
		NW4G4-ER	308	Spacer regulator		W4G4-SR-P	460
Discrete valve block with solenoid valve		NW4GB410-10-R1M-3	584	Tie rod		W4G4-TR-V1 (2/set)	16
		NW4GB420-10-R1M-3	629			W4G4-TR-V2 (2/set)	36
		NW4GB4 <sup>3</sup> / <sub>5</sub> 0-10-R1M-3	661			W4G4-TR-V3 (2/set)	56
		NW4GZ410-08-R1M-3	617			W4G4-TR-V4 (2/set)	76
		NW4GZ420-08-R1M-3	662			W4G4-TR-V5 (2/set)	96
		NW4GZ4 <sup>3</sup> / <sub>5</sub> 0-08-R1M-3	694			W4G4-TR-V6 (2/set)	116
Discrete valve block with masking plate		NW4GB4-MP-10-R1	415			W4G4-TR-V7 (2/set)	136
		NW4GZ4-MP-08-R1	448			W4G4-TR-V8 (2/set)	156
Partition block		NW4G4-SA	360	Tie rod mounting screw (2)			16
Air supply spacer		W4G4-P-10	187				

### Parts list

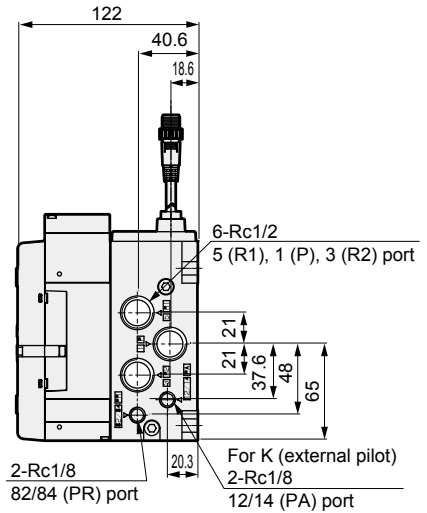
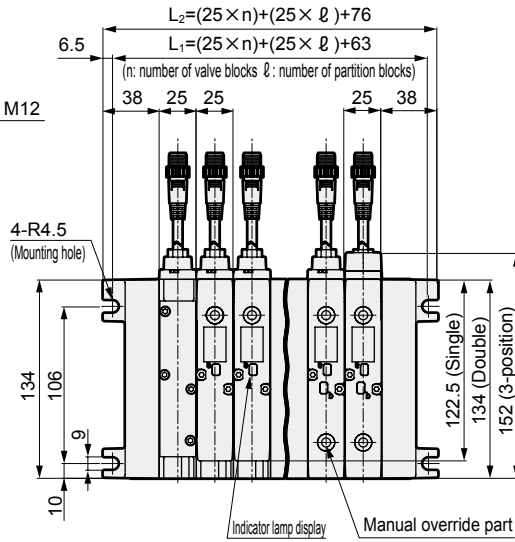
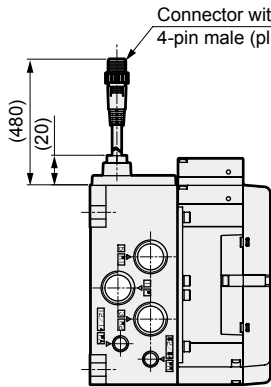
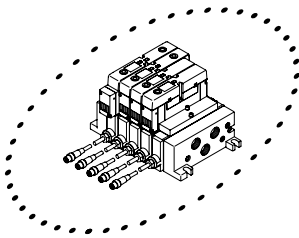
Applicable	Part name	Model No.
Valve block	Cartridge fitting φ8 straight	4G4-JOINT-C8
	Cartridge fitting φ10 straight	4G4-JOINT-C10
	Cartridge fitting φ12 straight	4G4-JOINT-C12

## Dimensions

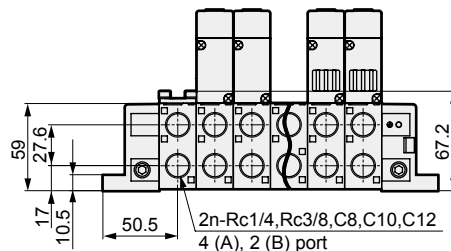
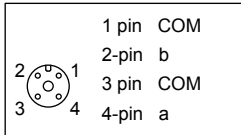
### MW4GB4 Side piping

● I/O connector (R1)

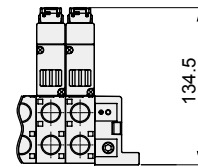
Cable used: VA-4DBXO5KUG3-CKD276-PG7 (Correns)



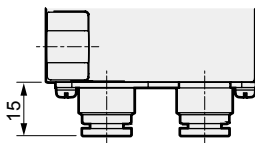
I/O connector pin layout



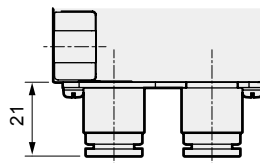
● Non-locking/locking common manual override (blank)



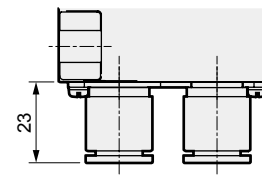
● Push-in fitting for valve block  
● φ8(C8)



● φ10(C10)

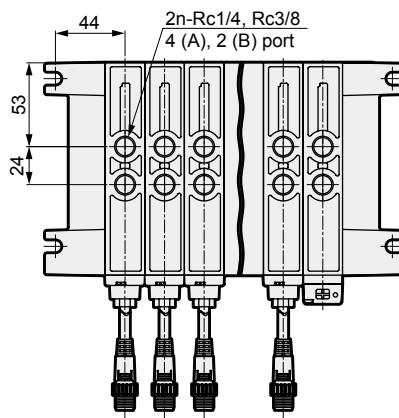
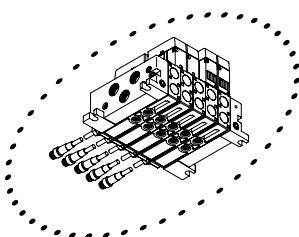


● φ12(C12)

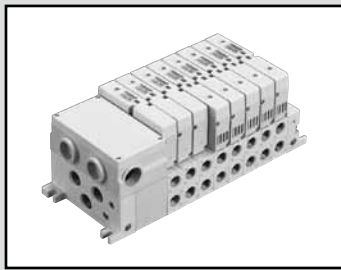


### MW4GZ4 Rear piping

● I/O connector (R1)



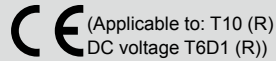
4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
<b>W4GB4</b>
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
TotAirSys (Total Air)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



Reduced wiring manifold  
Base side piping/base bottom piping

# MW4G<sup>B</sup>4-T1/3/6/7 Series

● Cylinder bore size: φ63 to φ125



Refer to the Ending for details.



- 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

## Common specifications

Descriptions	MW4GB4	MW4GZ4
Manifold	Block manifold	
Supply and exhaust method	Common supply/common exhaust	
Pilot exhaust method	Main valve/pilot valve individual exhaust	
Piping direction	Lateral direction from base	Downward from base
Valve and operation	Pilot operated soft spool valve	
Working fluid	Compressed air	
Max. working pressure MPa	1.0 (≈150 psi, 10 bar)	
Min. working pressure MPa	0.2 (≈29 psi, 2 bar) *3	
Proof pressure MPa	1.5 (≈220 psi, 15 bar)	
Ambient temperature °C	-5 (23°F) to 55 (131°F) (no freezing)	
Fluid temperature °C	5 (41°F) to 55 (131°F)	
Manual override	Non-locking (standard)	
Lubrication *1	Not required	
Degree of protection *2	Dust proof/jet proof (IP65)	
Vibration resistance m/s <sup>2</sup>	49 or less	
Shock resistance m/s <sup>2</sup>	294 or less	
Atmosphere	Cannot be used in corrosive gas environments	

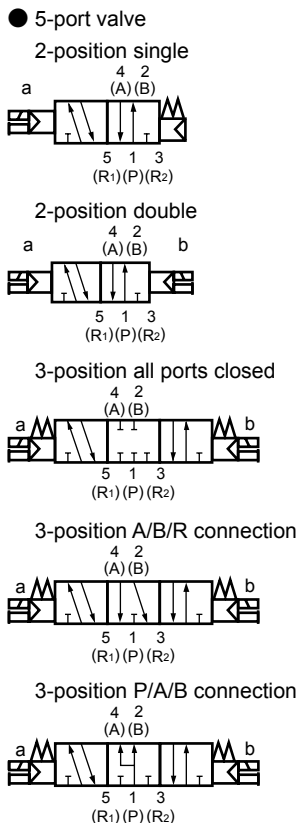
- \*1 : Use turbine oil Class 1 ISO VG32 for lubrication.  
Excessive lubrication results in unstable operation.
- \*2 : Tested according to the test method for IP65 (IEC60529 (IEC529: 1989-11)) standards.  
Refer to page 1074 for details.  
The degree of protection of T30 (custom order) is dust proof. Avoid water drops or oil, etc., during use.
- \*3 : The working pressure range is 0 to 1.0 MPa when the external pilot (option code: K) is selected. Set the external pilot pressure between 0.2 and 1.0 MPa.

## Electrical specifications

Descriptions	W4GB4/W4GZ4		
Rated voltage	AC	100(50/60 Hz)	
	DC	110(50/60 Hz)	
*4		12,24	
Voltage fluctuation range	±10%		
Starting current	AC	100 V	0.056/0.044
		110 V	0.051/0.040
	DC	12 V	-
		24 V	-
Holding current	AC	100 V	0.028/0.022
		110 V	0.025/0.020
	DC	12 V	0.100
		24 V	0.050
Power consumption	AC	100 V	1.8/1.5
		110 V	
	DC	12 V	1.2
	24 V		
Thermal class	B (molded coil)		

- \*4: Serial transmission connection is 24 VDC only.  
\*5: Surge suppressor and indicator are supplied as standard.

## JIS symbol



## Individual specifications

Descriptions	MW4GB4				MW4GZ4				
	T10(R) Common term. block	T30(R) D sub-connector	T6*1(R) Serial transm	T7EC* Serial transm	T10(R) Common term. block	T30(R) D sub-connector	T6*1(R) Serial transm	T7EC* Serial transm	
Max. station No.	Standard wiring				16				
Max. number of solenoids	Double wiring				8				
Port size	Max. number of solenoids								
	16								
	P port	Rc1/2, G1/2, NPT1/2							
	A/B port	Rc1/4, Rc3/8, G1/4, G 3/8, NPT 1/4, NPT 3/8, Push-in fitting φ8, φ10, φ12				Rc1/4, G 1/4 NPT1/4, Rc3/8			
	R port	Rc1/2, G1/2, NPT1/2							
PA/PR port	Rc1/8, G1/8, NPT1/8								

For weight, refer to page 1025.

Descriptions	MW4GB4/MW4GZ4		
	2-position	Single	Double
Response time ms	30	38	-
	3-position	ABR connection	50
			58

The response time is the value with a supply pressure of 0.5 MPa at 20°C and with no lubrication. It depends on the pressure and the lubricant quality.

## Flow characteristics

Model No.	Solenoid position	P→A/B		A/B→R		
		C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
W4GB4	2-position	7.4	0.24	7.9	0.30	
	3-position	All ports closed	6.4	0.22	7.1	0.32
		ABR connection	6.4	0.17	8.3	0.28
		PAB connection	7.1	0.16	7.4	0.28

- \*1: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.  
\*2: Values of flow characteristics are for Rc3/8 port size.

## Reduced wiring specifications

Descriptions	T10	T30
Type	Common terminal block M3 thread	D sub-connector
Connector	-	D sub-connector 25-pin

## Specifications of serial transmission slave units (Refer to page 1057 for the PLC compatibility table)

Descriptions		T6D1(R)	T6G1(R)	T6A1(R)	T6J1(R)	T6C1(R)
Network name		DeviceNet *1, *2	CC-Link ver1.10	UNIWIRESYSTEM	UNIWIRESYSTEM H	CompoBus/S
Power supply voltage	Unit side	24 VDC ±10%	24 VDC ±10%	24 VDC +10%, -5%	24 VDC +10%, -5%	24 VDC ±10%
	Valve side	24 VDC +10%, -5%	24 VDC +10%, -5%	Common power supply terminal	Common power supply terminal	24 VDC +10%, -5%
	Communication side	11 to 25 VDC	-	-	-	-
Current consumption	Unit side	100 mA or less (when all output points are ON)	100 mA or less (when all output points are ON)	200 mA or less (when all output points are ON)	150 mA or less (when all output points are ON)	60 mA or less (when all output points are ON)
	Valve side	15 mA or less (when all points are OFF)	15 mA or less (when all points are OFF)	(Current consumption of body is not included)	(Current consumption of body is not included)	15 mA or less (when all points are OFF)
	Communication side	50 mA or less	-	-	-	-
Output points		16 points	16 points	16 points	16 points	16 points
Occupied number		2 bytes	1 station	16 output points	16 output points	2 node address (8-point mode)

Descriptions	Slave unit dedicated for valves (without I/O block)		Slave unit with I/O block	
	T7EC1	T7ECP1	T7ECB7	T7ECPB7
Network name		EtherCAT		EtherCAT
Power supply voltage	Unit side	24 VDC ±10%		24 VDC ±10%
	Valve side	24 VDC +10%, -5%		24 VDC +10%, -5%
Current consumption	Unit side	110mA or less		110 mA or less (*1: excluding input block current)
	Valve side	15 mA or less (excluding load current)		15 mA or less (excluding load current)
Valve output		NPN	PNP	NPN PNP
Input/output point count		0/16		16/16
Operation display		Power supply/communication status/valve power supply		
Degree of protection		IP65		

\*1: Compatible with DeviceNet compliant networks (DLNK, etc.) as well.

\*2: Contact CKD for EDS file. EDS file: A text file of parameters for communication with various companies' master units

## Coolant proof specifications

Can be selected with "How to order" Items © and ⑤ option "A" on pages 1022 and 1023.

## Specifications for rechargeable battery (Catalog No. CC-1226A)

● For use in the rechargeable battery manufacturing process, materials used for all parts are limited

\*\* - Voltage - **P40**

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
<b>W4GB4</b>
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

# MW4G<sup>B</sup>4-T1/3 Series

Reduced wiring manifold; base side piping/base bottom piping

## How to order

● Manifold model No.

**MW4GB4** (8) 0 - (10) — **T10** **W** **M** - (6) - (3)

**MW4GZ4** (8) 0 - (08) — **T10R** **W** **M** - (6) - (3)

● Discrete valve block with solenoid valve

**NW4GB4** (1) 0 - (10) - (1)      **M7** — (1)

**NW4GZ4** (1) 0 - (08N) - (1)      **M7** — (4)

● Discrete solenoid valve

**W4GB4** (1) 9 - 00 — **M** — (3)

**A** Model No.    **B** Solenoid position

**C** Port size

**D** Electrical connections

**E** Wiring method

**F** Terminal/connector pin array

**G** Option

**H** Station No.

**I** Voltage

A Model No.				
Manifold	Discrete valve block with solenoid valve		Discrete solenoid valve	
MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4

Code	Content	MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4
<b>B Solenoid position</b>						
1	2-position single	●	●	●	●	●
2	2-position double	●	●	●	●	●
3	3-position all ports closed	●	●	●	●	●
4	3-position ABR connection	●	●	●	●	●
5	3-position PAB connection	●	●	●	●	●
8	Mix manifold (for multiple solenoid positions)	●	●			

<b>C Port size {2(B), 4(A) port}</b>						
08	Rc1/4	●	●	●	●	
10	Rc3/8	●	●	●	●	
08G	G1/4	●	●	●	●	
10G	G3/8	●		●		
08N	NPT1/4	●	●	●	●	
10N	NPT3/8	●		●		
C8	φ8 push-in	●		●		
C10	φ10 push-in	●		●		
C12	φ12 push-in	●		●		
CX	Push-in fitting mix	●				
HX	Screw-in mix	●	●			

<b>D Electrical connections</b>						
Blank	Reduced wiring DC specifications			●	●	
1	Common term. block AC specs, 1 to 6 stations			●	●	
2	Common term. block AC specs, 7 to 12 stations			●	●	
3	Common term. block AC specs, 13 to 16 stations			●	●	

<b>E Wiring method (including standard lamp and surge suppressor)</b>						
Blank	Discrete			●	●	●
T10	Common terminal block	Left-side spec	●	●		
T10R		Right-side spec	●	●		
T30	D sub-connector *1	Left-side spec	●	●		
T30R		Right-side spec	●	●		

<b>F Terminal/connector pin array</b>						
Blank	Standard wiring *2	●	●	●	●	●
W	Double wiring *2	●	●	●	●	

<b>G Option</b>						
Blank	No option (Lock/no lock model, common manual override when M/M7 not selected.) *3	●	●	●	●	●
M	Non-locking manual override (standard)	●	●	●	●	●
M7	Lock with pilot air OFF function *4	●	●	●	●	●
Z1	Air supply spacer *5	●	●			
Z3	Exhaust spacer *5	●	●			
Z7	Spacer regulator *1, *5	●	●			
K	External pilot	●	●	*6	*6	*6
A	Coolant proof	●	●	●	●	●
F	A/B port filter *7	●	●	●	●	

<b>H Station No.</b>						
1	1 station	●	●			
to 16	to 16 stations	*8	*8			

<b>I Voltage</b>						
1	100 VAC	●	●	●	●	●
3	24 VDC	●	●	●	●	●
4	12 VDC	●	●	●	●	●
5	110 VAC	●	●	●	●	●

is not available.

## ⚠ Precautions for model selection

\*1 : Available as custom order.

\*2 : Standard wiring...The wiring will be based on the type of valve used.

Double wiring...All wired for double solenoid valves regardless of the type of valve used.

\*3 : Do not select M and M7 when selecting the non-locking/locking common manual override.

\*4 : Includes both the non-locking manual override and the lock with pilot air OFF function. The non-locking/locking common manual override and the lock with pilot air OFF function cannot be selected at the same time.

\*5 : Specify the spacer mounting position and quantity in manifold specifications sheet. Combination with the masking plate is not supported.

Multiple stacked assemblies of spacers are available as custom order. For details on air supply spacer and exhaust spacer, refer to page 1046.

\*6 : Common for the internal and external pilot.

\*7 : A filter is built into the P port as standard.

\*8 : The max. station No. of manifold is 16 for standard wiring and 8 for double wiring.



# MW4G<sub>Z</sub>4-T6/T7 Series

Reduced wiring manifold; base side piping/base bottom piping

## How to order

● Manifold model No.

**MW4GB4** 8 0 - 10 - T6G1 W M - 6 - 3

**MW4GZ4** 8 0 - 08 - T6D1R W M - 6 - 3

● Discrete valve block with solenoid valve

**NW4GB4** 1 0 - 10 ——— M7 ——— 3

**NW4GZ4** 1 0 - 08N ——— M7 ——— 3

● Discrete solenoid valve

**W4GB4** 1 9 - 00 ——— M ——— 3

● A Model No. ● B Solenoid position ● H Voltage

● C Port size

● D Wiring method

● E Terminal/connector pin array

● F Option

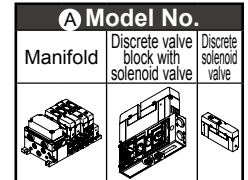
● G Station No.

## ⚠ Precautions for model selection

- \*1 : Standard wiring...The wiring will be based on the type of valve used.  
Double wiring...All wired for double solenoid valves regardless of the type of valve used.
- \*2 : Do not select M and M7 when selecting the non-locking/locking common manual override.
- \*3 : Includes both the non-locking manual override and the lock with pilot air OFF function. The non-locking/locking common manual override and the lock with pilot air OFF function cannot be selected at the same time.
- \*4 : Specify the spacer mounting position/quantity in manifold specifications sheet.  
Combination with the masking plate is not supported.  
Multiple stacked assemblies of spacers are available as custom order. For details on air supply spacer and exhaust spacer, refer to page 1046.
- \*5 : Available as custom order.
- \*6 : Common for the internal and external pilot.
- \*7 : The slave unit (OPP2) will differ between the standard specifications and the coolant proof specifications.

Option	Slave unit cover material	Specifications
Standard	Polycarbonate	Spatter-proof product
A	Nylon	Coolant proof product

- \*8 : A filter is built into the P port as standard.
- \*9 : The max. station No. of manifold is 16 for standard wiring and 8 for double wiring.
- \*10 : Serial transmission connection is 24 VDC only.
- \*11 : Refer to T7\* in page 891 for I/O block combination.
- \*12 : Refer to page 886 for I/O block specifications.



Code	Content	A Model No.				
		MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4
<b>B Solenoid position</b>						
1	2-position single	●	●	●	●	●
2	2-position double	●	●	●	●	●
3	3-position all ports closed	●	●	●	●	●
4	3-position ABR connection	●	●	●	●	●
5	3-position PAB connection	●	●	●	●	●
8	Mix manifold (for multiple solenoid positions)	●	●			

C Port size {2(B), 4(A) port}		MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4
08	Rc1/4	●	●	●	●	
10	Rc3/8	●	●	●	●	
08G	G1/4	●	●	●	●	
10G	G3/8	●		●		
08N	NPT1/4	●		●	●	
10N	NPT3/8	●		●		
C8	φ8 push-in	●		●		
C10	φ10 push-in	●		●		
C12	φ12 push-in	●		●		
CX	Push-in fitting mix	●				
HX	Screw-in mix	●	●			

D Wiring method (including standard lamp and surge suppressor)		MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4
Blank	Discrete			●	●	●
T6G1	CC-Link 16 points	Left-side spec	●	●		
T6G1R		Right-side spec	●	●		
T6J1	UNIWIRES H 16 points	Left-side spec	●	●		
T6J1R		Right-side spec	●	●		
T6A1	UNIWIRES 16 points	Left-side spec	●	●		
T6A1R		Right-side spec	●	●		
T6D1	DeviceNet 16 points	Left-side spec	●	●		
T6D1R		Right-side spec	●	●		
T6C1	CompoBus/S 16 points	Left-side spec	●	●		
T6C1R		Right-side spec	●	●		
T7EC1	Thin EtherCAT 16-point output (NPN valve output)	●	●			
T7ECP1	Thin EtherCAT 16-point output (PNP valve output)	●	●			
T7ECB7	Thin (with I/O) EtherCAT 16/16 points I/O (NPN valve output)	●	●			
T7ECPB7	Thin (with I/O) EtherCAT 16/16 points I/O (PNP valve output)	●	●			

E Terminal/connector pin array		MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4
Blank	Standard wiring *1	●	●	●	●	●
W	Double wiring *1	●	●	●	●	●

F Option		MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4
Blank	No option (Lock/no lock model, common manual override when M/M7 not selected.) *2	●	●	●	●	●
M	Non-locking manual override (standard)	●	●	●	●	●
M7	Lock with pilot air OFF function *3	●	●	●	●	●
Z1	Air supply spacer *4	●	●			
Z3	Exhaust spacer *4	●	●			
Z7	Spacer regulator *4, *5	●	●			
K	External pilot	●	●	*6	*6	*6
A	Coolant proof *7	●	●	●	●	●
F	A/B port filter *8	●	●	●	●	
Y**	I/O block *11, *12 (Can be selected when wiring method is T7*7)					

G Station No.		MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4
1 to 16	1 station to 16 stations	●	●			
		*9	*9			

H Voltage		MW4GB4	MW4GZ4	NW4GB4	NW4GZ4	W4GB4
3	24 VDC *10	●	●	●	●	●

is not available.

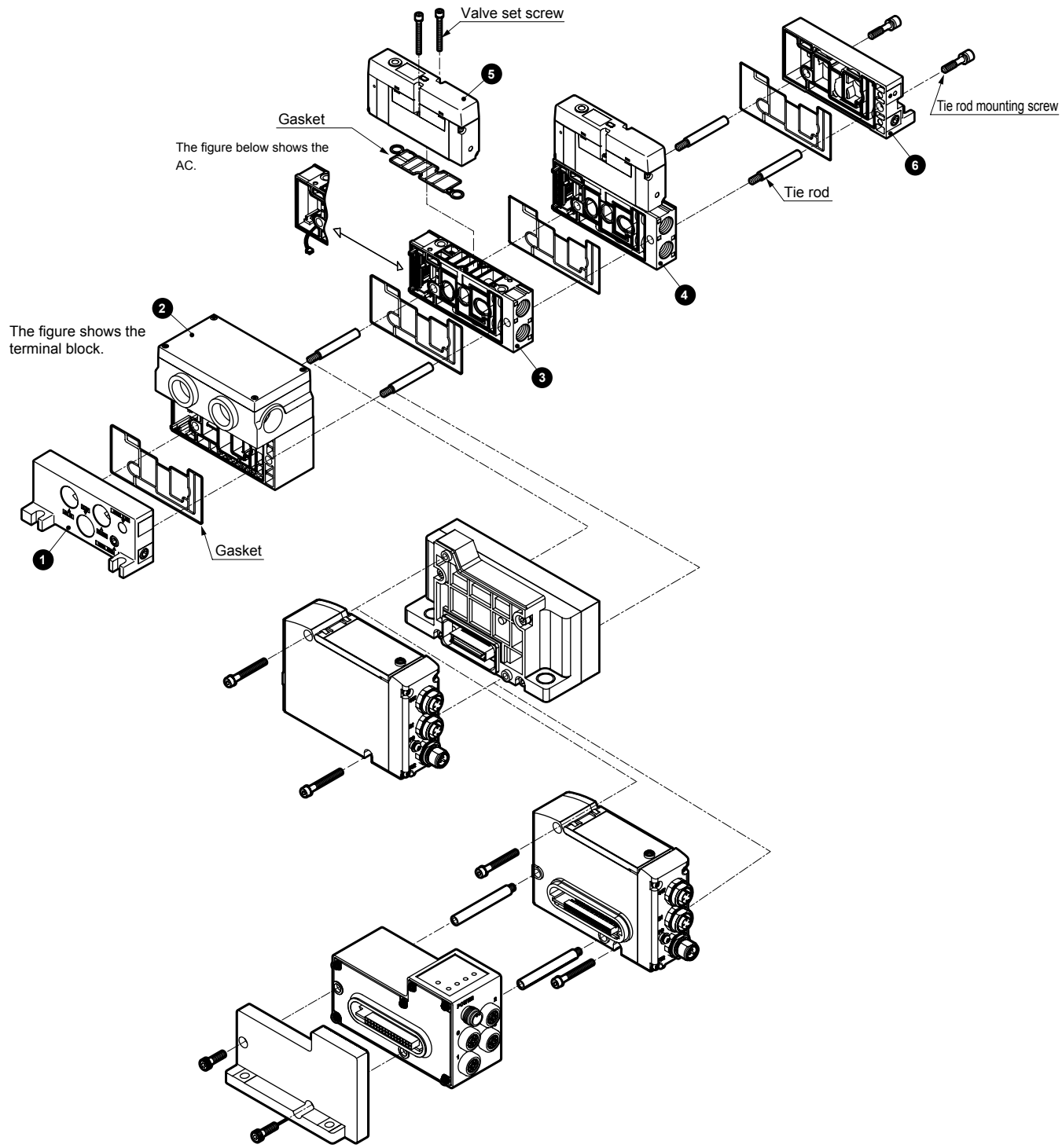
- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E
- MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/LMF0
- MN3S0
- MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G
- GMF
- PV5
- GMF
- PV5S-0
- 3QR
- 3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/NVP
- 4F\*0EX
-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

# MW4G<sup>B</sup>4-T1/3/6/7 Series

Reduced wiring manifold; base side piping/base bottom piping

## Manifold components explanation and parts list

- 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



List of main components (refer to pages 1036 to 1047 for details)

No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
1	End block L	NW4G4-EL	4	Discrete valve block with solenoid valve	NW4GB410-10-M-3
2	Wiring block	NW4G4-T10	5	Discrete solenoid valve	W4GB419-00-M-3
3	Discrete valve block	NW4GB4-V1-10	6	End block R	NW4G4-ER



# MW4G<sup>B</sup>4-T1/3/6 Series

Reduced wiring manifold; base side piping/base bottom piping

## Component weight (DC)

Part name	Model No.	Weight	Part name	Model No.	Weight
End block	NW4G4-EL	316	Partition block	NW4G4-SA	360
	NW4G4-ER	308	Air supply spacer	W4G4-P-10	187
Valve block with solenoid valve	NW4GB410-10-M-3	584	Exhaust spacer	W4G4-R-10	189
	NW4GB420-10-M-3	629	Spacer regulator	W4G4-SR-P	460
	NW4GB4 $\frac{3}{8}$ 0-10-M-3	661	Tie rod	W4G4-TR-V1 (2/set)	16
	NW4GZ410-10-M-3	617		W4G4-TR-V2 (2/set)	36
	NW4GZ420-10-M-3	662		W4G4-TR-V3 (2/set)	56
	NW4GZ4 $\frac{3}{8}$ 0-10-M-3	694		W4G4-TR-V4 (2/set)	76
Valve block with masking plate	NW4GB4-MPD-101	415		W4G4-TR-V5 (2/set)	96
	NW4GZ4-MPD-08	448		W4G4-TR-V6 (2/set)	116
Wiring block	NW4G4-T10	550		W4G4-TR-V7 (2/set)	136
	NW4G4-T30	905		W4G4-TR-V8 (2/set)	156
	NW4G4-T6G1	710	Tie rod mounting screw (2)	-	16
	NW4G4-T7EC*	750			

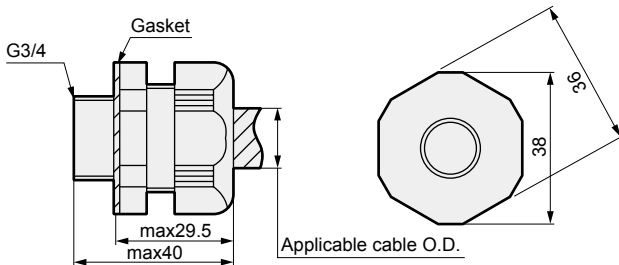
## Related parts list

Applicable	Part name	Model No.
Valve Block	Cartridge fitting $\phi 8$ straight	4G4-JOINT-C8
	Cartridge fitting $\phi 10$ straight	4G4-JOINT-C10
	Cartridge fitting $\phi 12$ straight	4G4-JOINT-C12

## Parts kit for T10 wiring block

- Cable clamp

Model No.	Applicable cable O.D.	Content
W4G-SCL-18A	$\phi 14.5$ to $16.5$	Used to protect cables from dust and jetting water.
W4G-SCL-18B	$\phi 16.5$ to $18.5$	

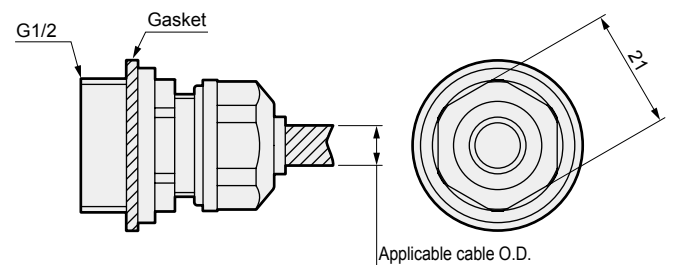


(Reference value)  
 Body tightening torque : 4.0 to 4.5 N·m  
 Cable clamp tightening torque: 3.0 to 3.5 N·m

## Parts kit for T6\* wiring block

- Cable clamp

Model No.	Applicable cable O.D.	Content
W4G-OA-W1608C1	$\phi 6$ to $8$	Used to protect cables from dust and jetting water.



Applicable cable O.D. :  $\phi 6$  to  $\phi 8$   
 (Reference value)  
 Body tightening torque : 2.0 to 2.4 N·m  
 Cable clamp tightening torque: 0.5 to 0.7 N·m

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

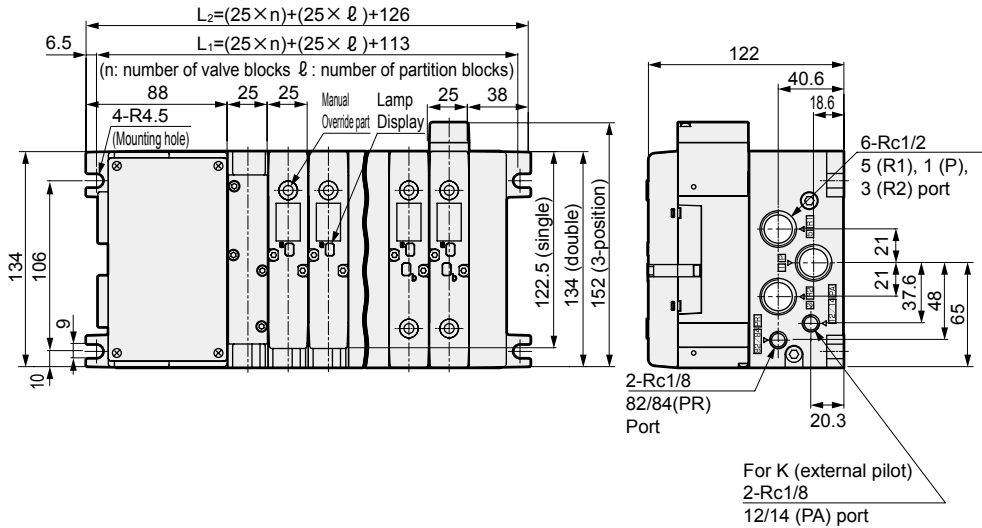
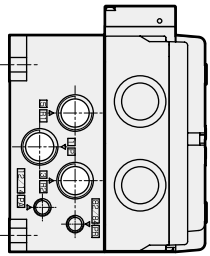
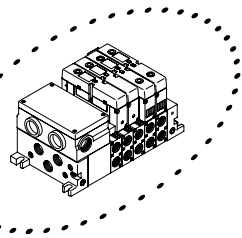
# MW4G<sup>B</sup><sub>Z</sub>4-T1 Series

Reduced wiring manifold; base side piping/base bottom piping

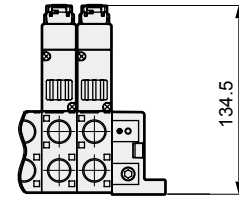
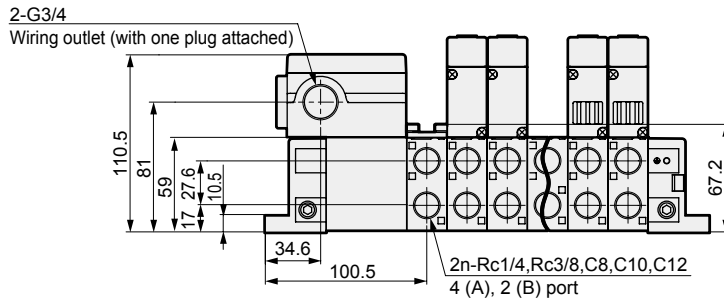
## Dimensions

### MW4GB4 Side piping

● Common terminal block (T10) Left-sided specifications



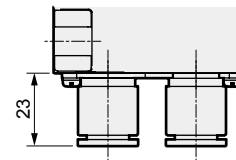
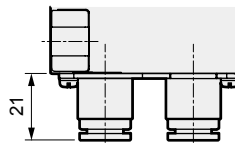
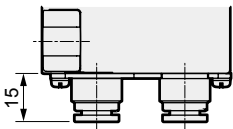
● Non-locking/locking common manual override (blank)



● Push-in fitting for valve block  
●  $\phi 8$ (C8)

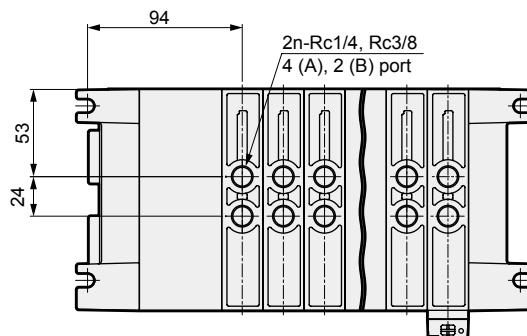
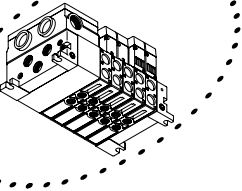
●  $\phi 10$ (C10)

●  $\phi 12$ (C12)



### MW4GZ4 Rear piping

● Common terminal block (T10) Left-sided specifications



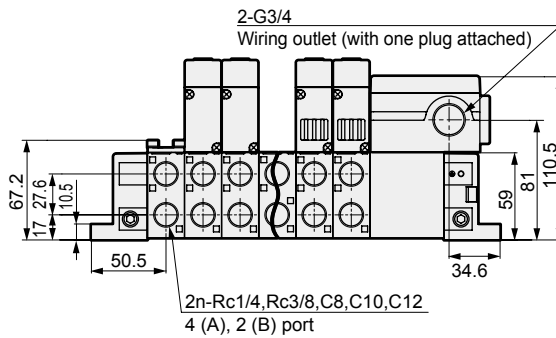
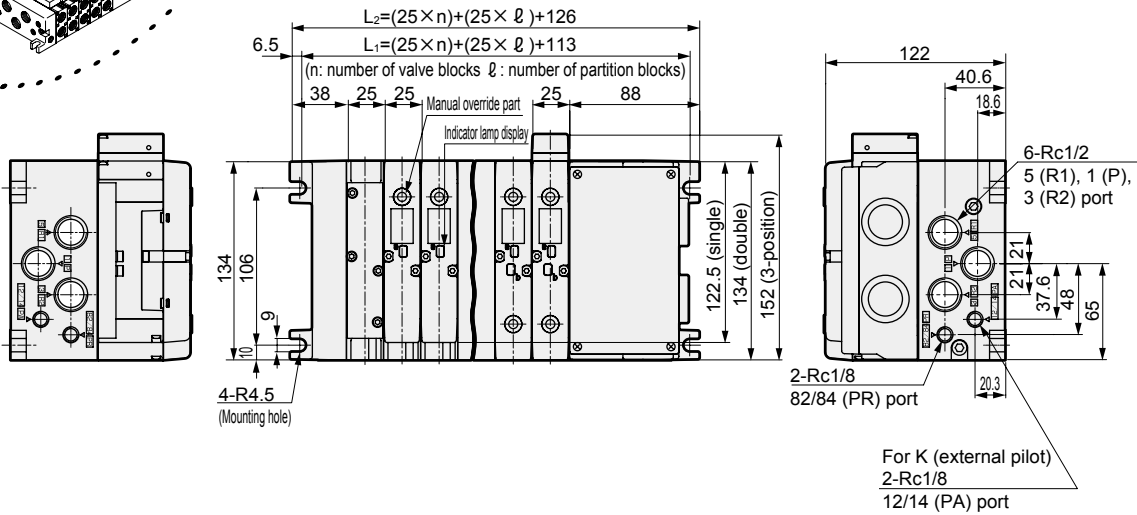
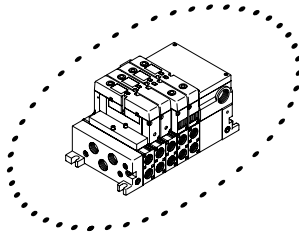
# MW4G<sup>B</sup><sub>Z</sub>4-T1 Series

Reduced wiring manifold; base side piping/base bottom piping

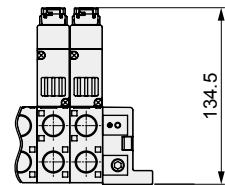
## Dimensions

### MW4GB4 Side piping

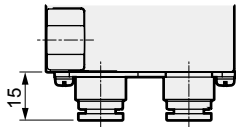
- Common terminal block (T10R) Right-sided specifications



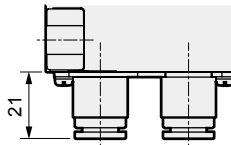
- Non-locking/locking common manual override (blank)



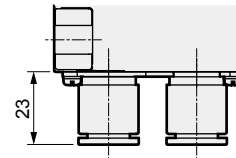
- Push-in fitting for valve block
- $\phi 8$ (C8)



- $\phi 10$ (C10)

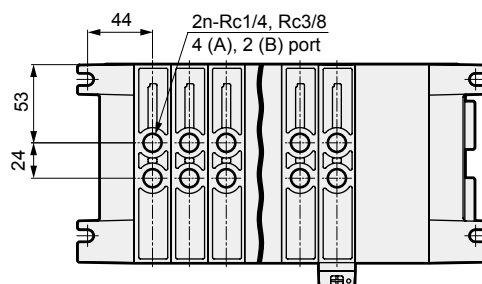
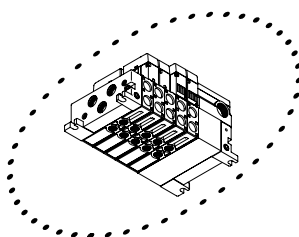


- $\phi 12$ (C12)



### MW4GZ4 Rear piping

- Common terminal block (T10R) Right-sided specifications



4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
<b>W4GB4</b>
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

# MW4G<sup>B</sup>4-T3 Series

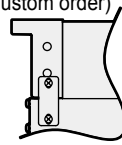
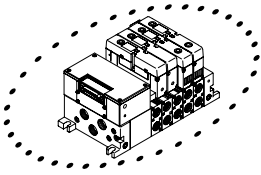
Reduced wiring manifold; base side piping/base bottom piping

## Dimensions

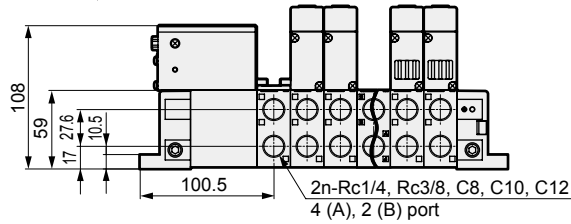
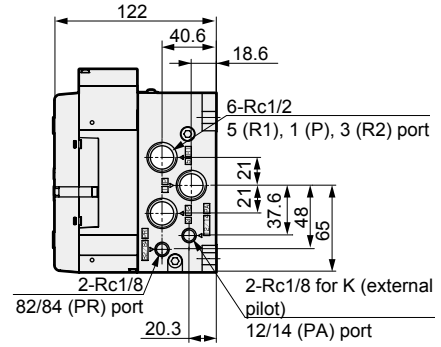
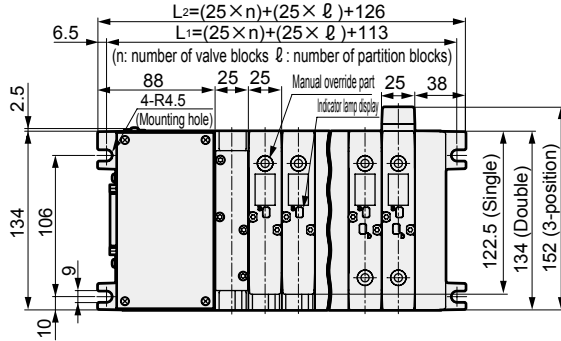
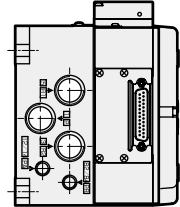
### MW4GB4 Side piping (Custom order)

● D sub-connector (T30)

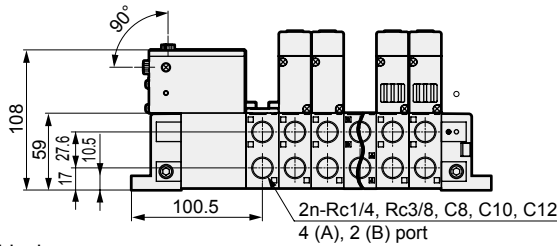
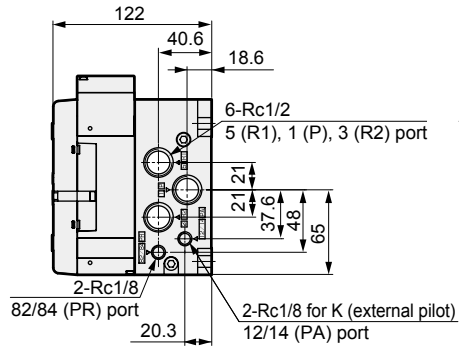
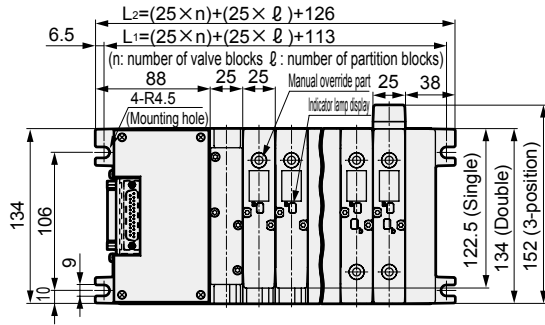
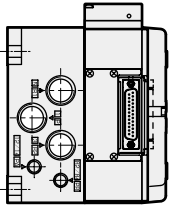
Left-sided specifications



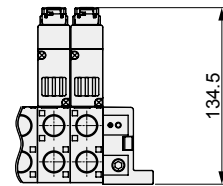
Applied voltage: AC



Voltage: DC



● Non-locking/locking common manual override (blank)

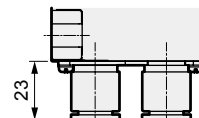
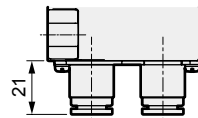
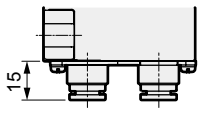


● Push-in fitting for valve block

φ8 (C8)

φ10 (C10)

φ12 (C12)

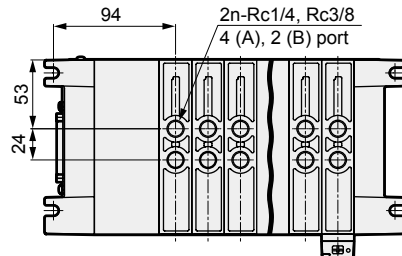
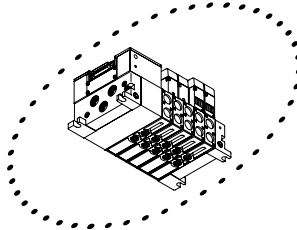


### MW4GZ4 Rear piping

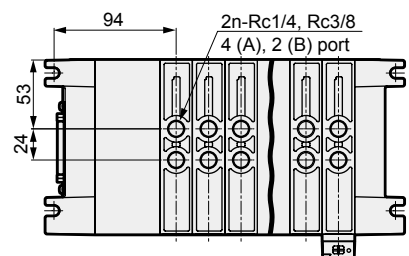
● D sub-connector (T30)

Left-sided specifications (custom order)

Applied voltage: AC



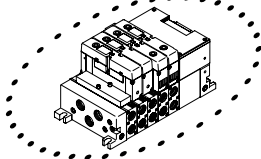
Voltage: DC



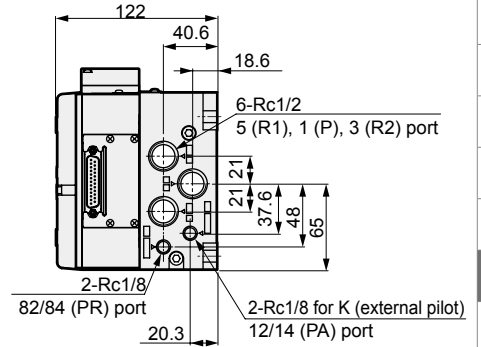
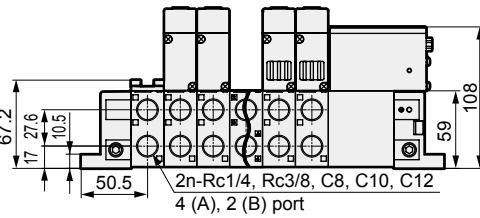
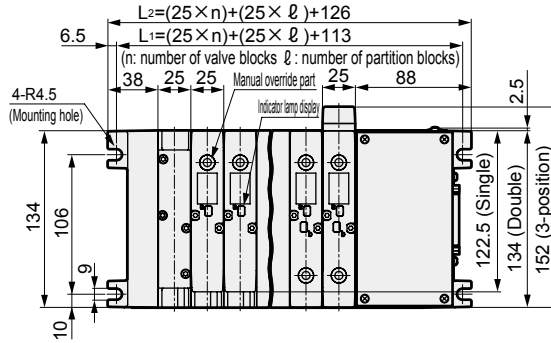
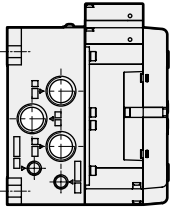
## Dimensions

### MW4GB4 Side piping

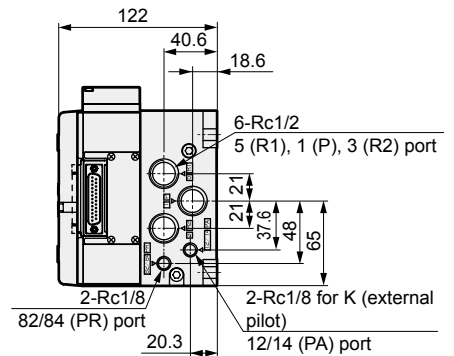
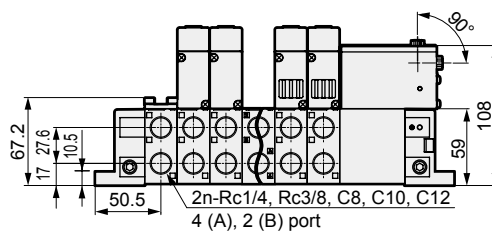
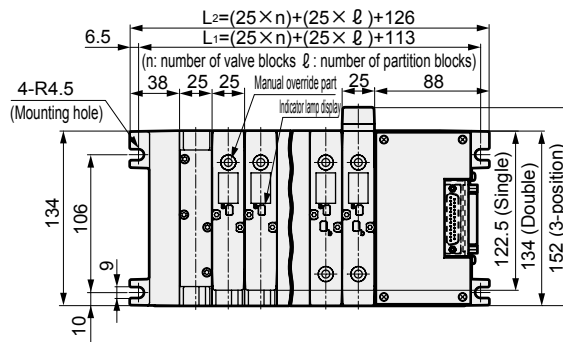
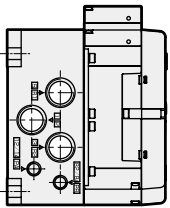
● D sub-connector (T30R) Right-sided specifications (custom order)



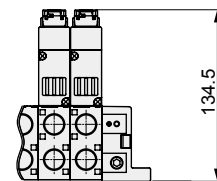
·Applied voltage: AC



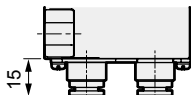
·Voltage: DC



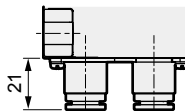
● Non-locking/locking common manual override (blank)



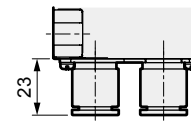
● Push-in fitting for valve block  
φ8 (C8)



·φ10 (C10)



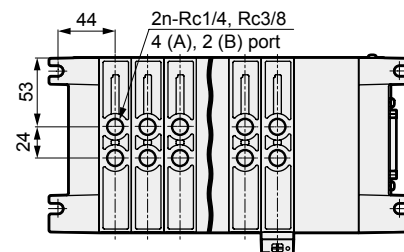
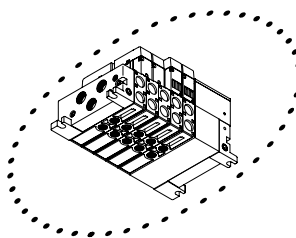
·φ12 (C12)



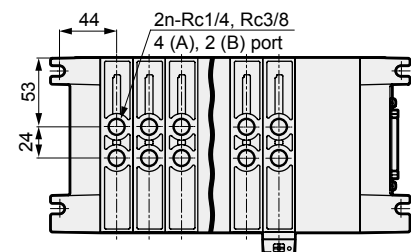
### MW4GZ4 Rear piping

● D sub-connector (T30R) Right-sided specifications (custom order)

·Applied voltage: AC



·Voltage: DC



4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
<b>W4GB4</b>
4TB
4L2-4/LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
● Non-locking/locking common manual override (blank)
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

# MW4G<sup>B</sup>4-T6 Series

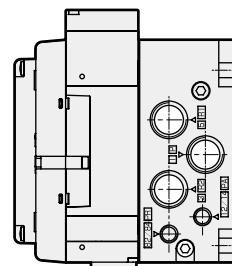
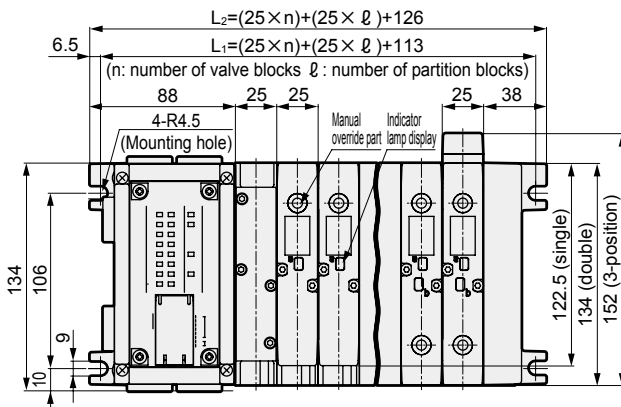
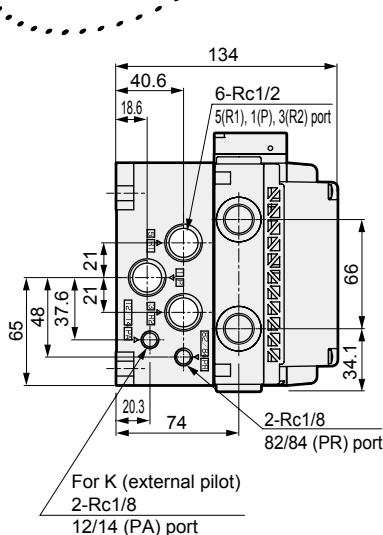
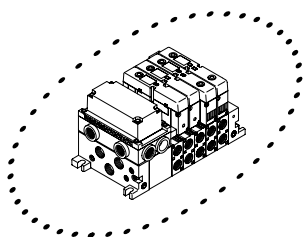
Reduced wiring manifold; base side piping/base bottom piping

## Dimensions

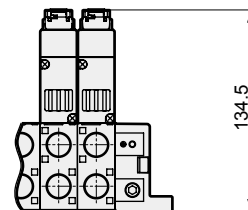
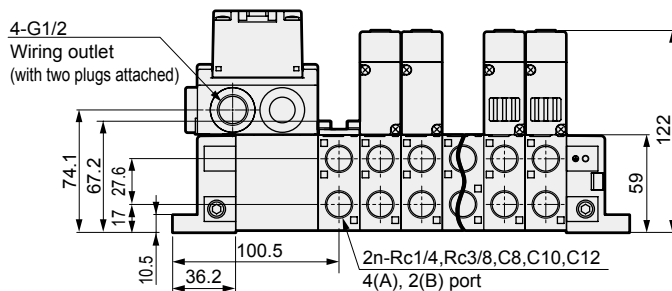
- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E
- MN4E
- W4GA/B2
- W4GB4**
- 4TB
- 4L2-4/ LMF0
- MN3S0
- MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G
- GMF
- PV5
- GMF
- PV5S-0
- 3QR
- 3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/ NVP
- 4F\*0EX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

### MW4GB4 Side piping

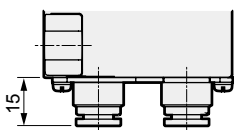
● Serial transmission (T6\*1) Left-sided spec.



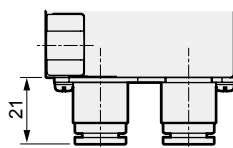
● Non-locking/locking common manual override (blank)



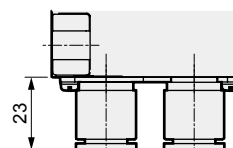
● Push-in fitting for valve block  
● φ8(C8)



● φ10(C10)

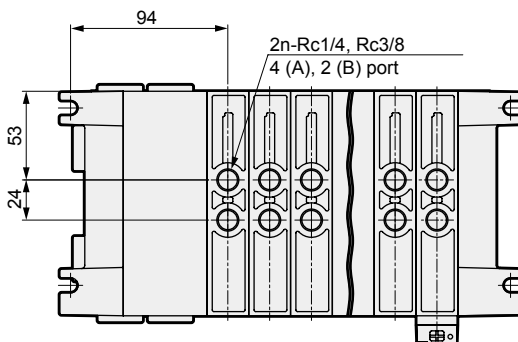
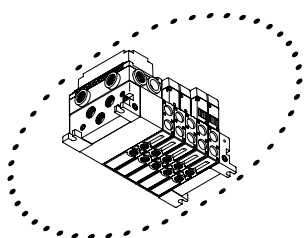


● φ12(C12)



### MW4GZ4 Rear piping

● Serial transmission (T6\*1) Left-sided spec.



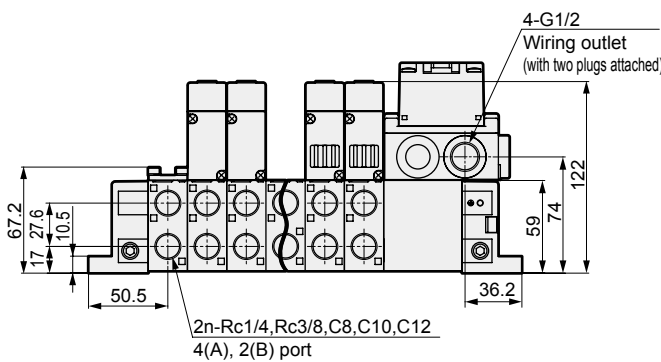
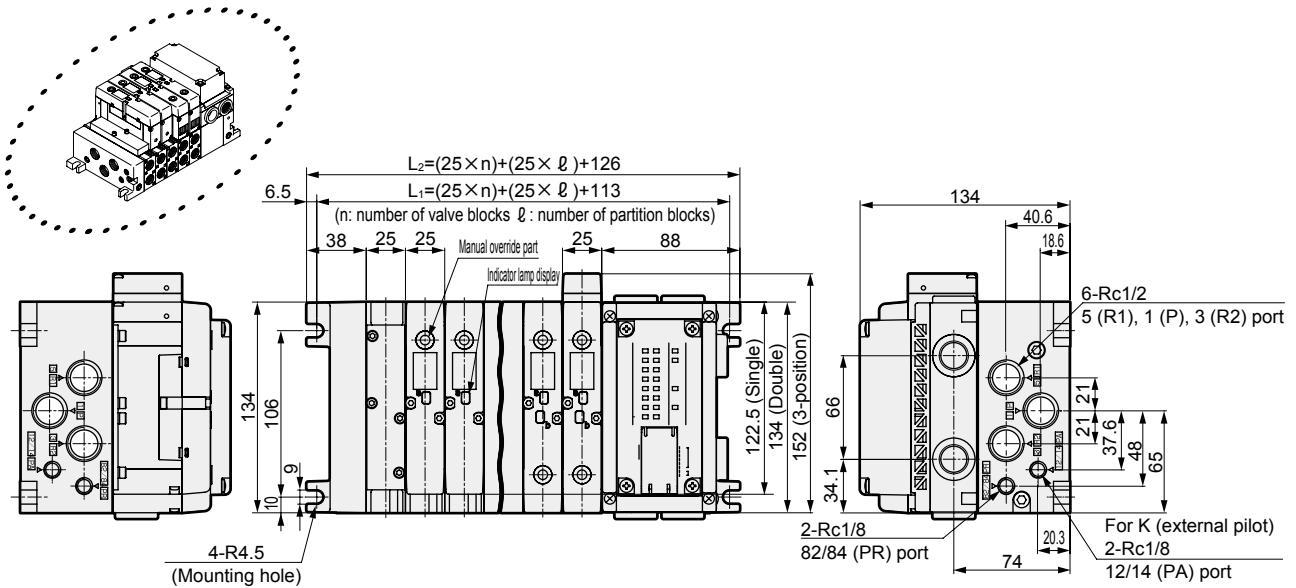
# MW4G<sup>B</sup>Z4-T6 Series

Reduced wiring manifold; base side piping/base bottom piping

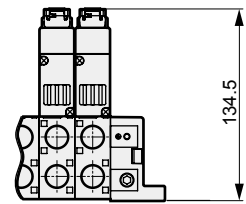
## Dimensions

### MW4GB4 Side piping

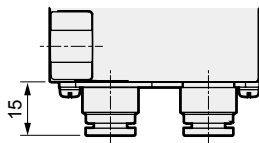
- Serial transmission (T6\*1R) Right-sided spec.



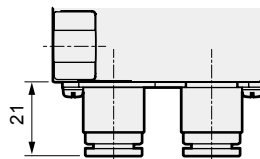
- Non-locking/locking common manual override (blank)



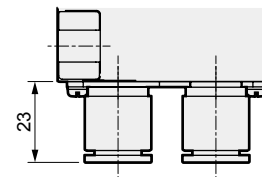
- Push-in fitting for valve block
- φ8(C8)



- φ10(C10)

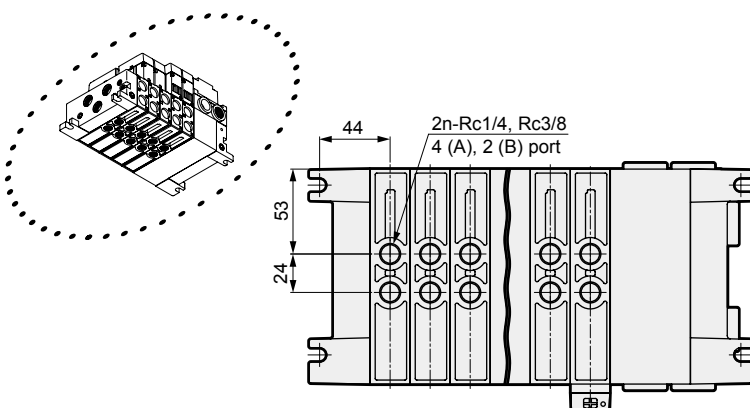


- φ12(C12)



### MW4GZ4 Rear piping

- Serial transmission (T6\*1R) Right-sided spec.



4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
<b>W4GB4</b>
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



# MW4G<sup>B</sup><sub>Z</sub>4-T7 Series

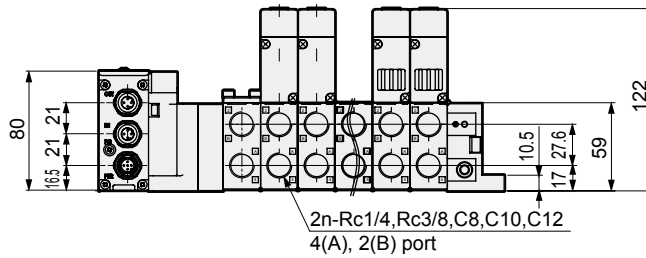
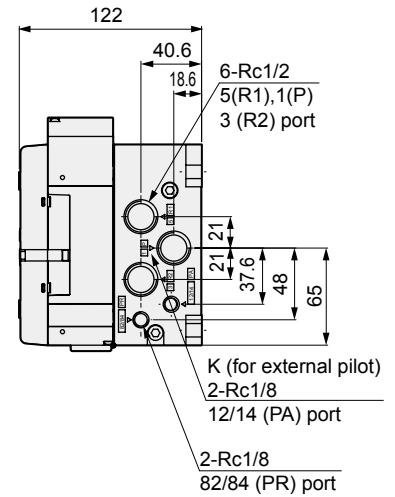
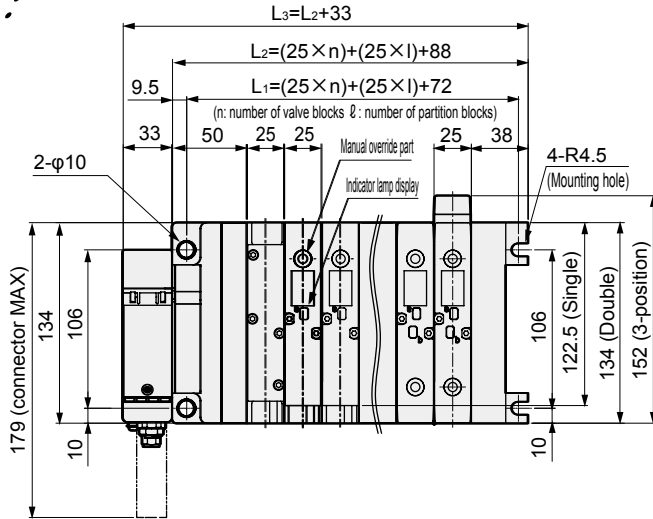
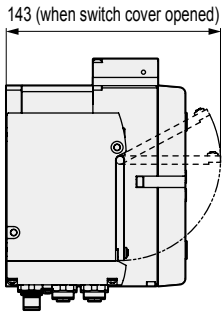
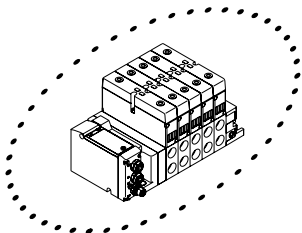
Reduced wiring manifold; base side piping/base bottom piping

## Dimensions

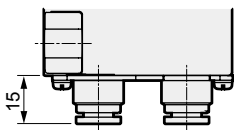
### MW4GB4 Side piping

● Serial transmission EtherCAT (T7EC\*\*) Left-sided spec.

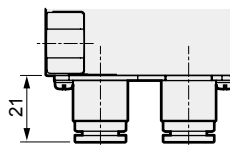
- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E  
MN4E
- W4GA/B2
- W4GB4**
- 4TB
- 4L2-4/  
LMF0
- MN3S0  
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G  
GMF
- PV5  
GMF
- PV5S-0
- 3QR  
3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/  
NVP
- 4F\*0EX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



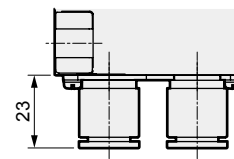
- Push-in fitting for valve block
- $\varnothing 8$ (C8)



- $\varnothing 10$ (C10)

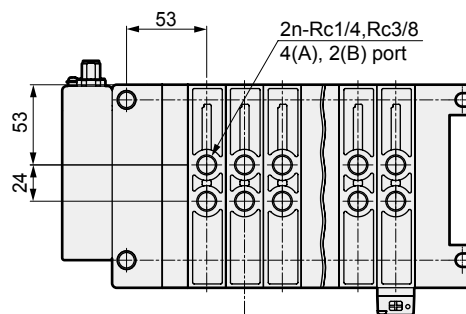
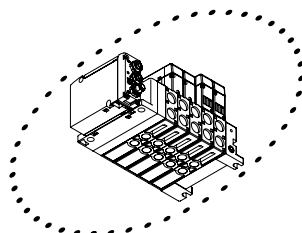


- $\varnothing 12$ (C12)



### MW4GZ4 Rear piping

● Serial transmission EtherCAT (T7EC\*\*) Left-sided spec.



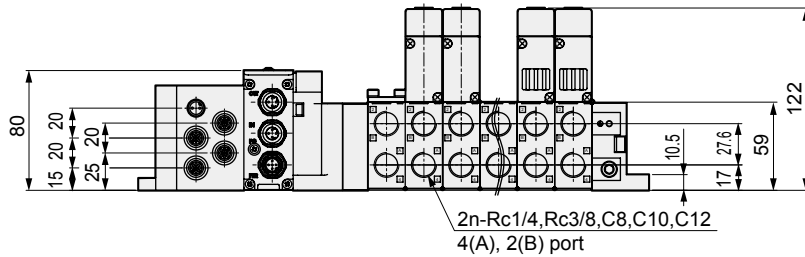
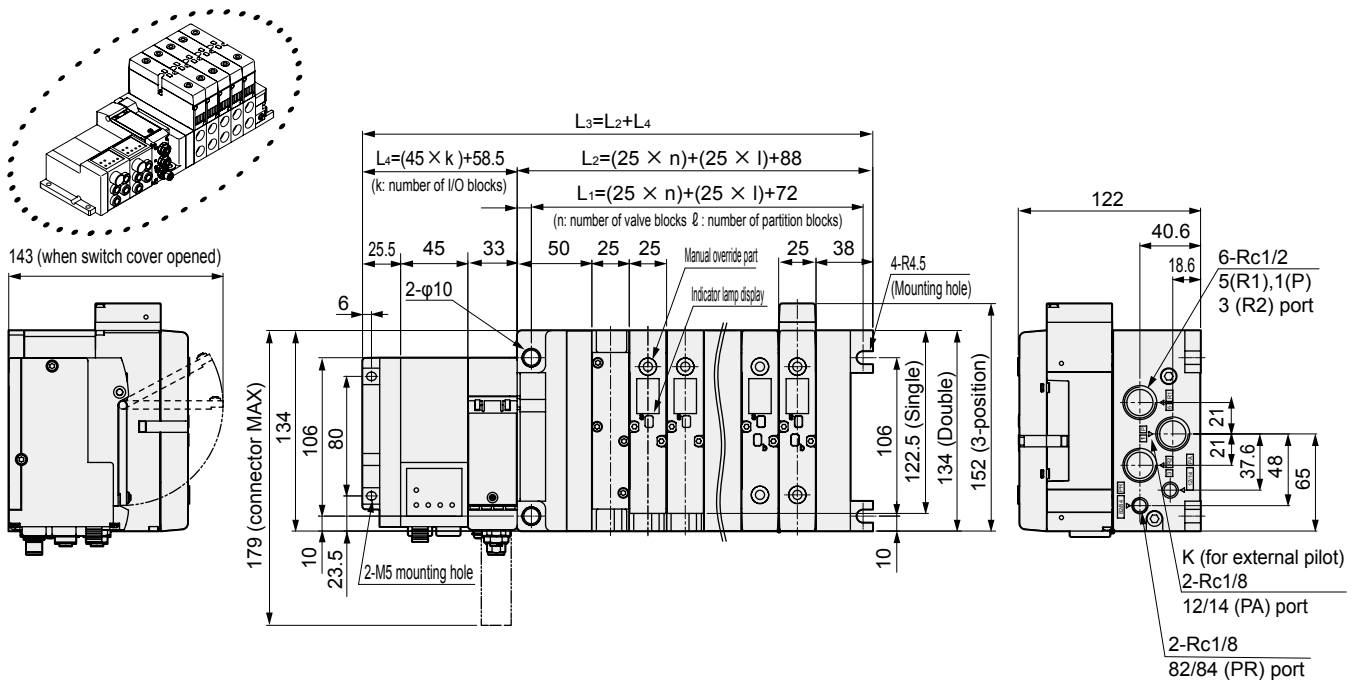
# MW4G<sup>B</sup>Z4-T7 Series

Reduced wiring manifold; base side piping/base bottom piping

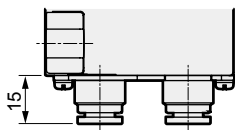
## Dimensions

### MW4GB4 Side piping

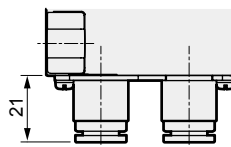
- Serial transmission EtherCAT (T7EC\*B\*) with I/O type



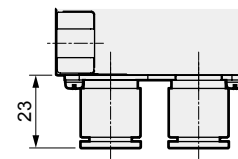
- Push-in fitting for valve block
- $\phi 8$ (C8)



- $\phi 10$ (C10)

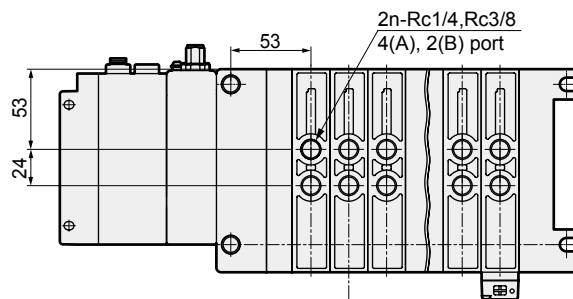
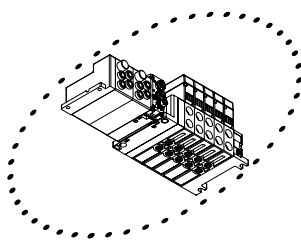


- $\phi 12$ (C12)



### MW4GZ4 Rear piping

- Serial transmission EtherCAT (T7EC\*B\*) Left-sided spec.



4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
<b>W4GB4</b>
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

# MW4G<sup>B</sup><sub>Z</sub>4 Series

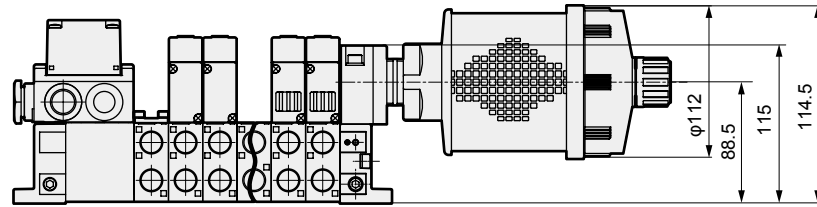
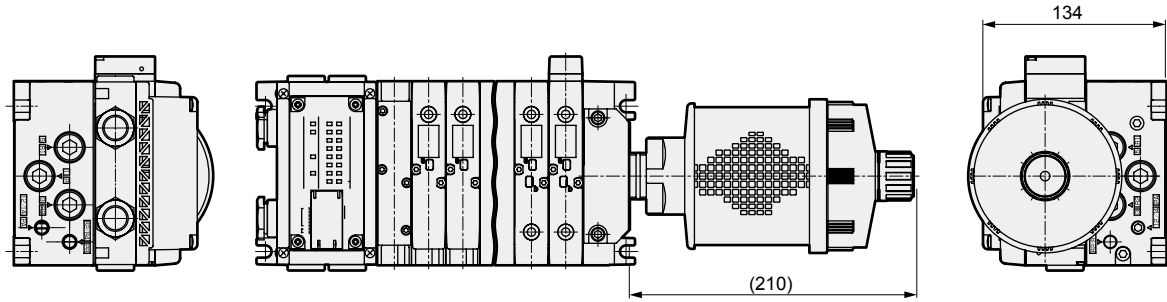
Reduced wiring manifold; base side piping/base bottom piping

## Dimensions

### Common exhaust block/with exhaust cleaner

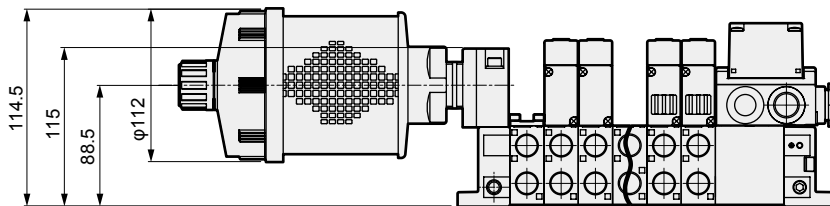
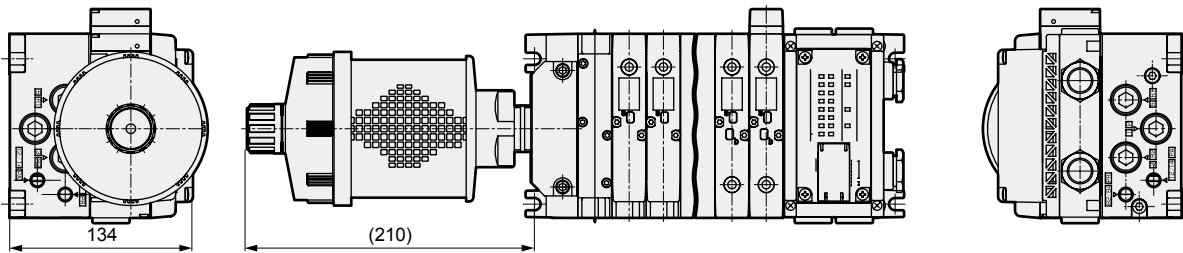
#### ECR

● Common exhaust block with exhaust cleaner Right



#### ECL

● Common exhaust block with exhaust cleaner Left



- 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