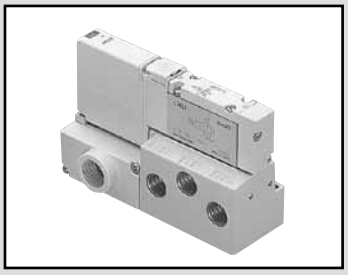


Single unit
Base piping

W4GB2 Series

● Cylinder bore size: φ 20 to φ 80

CE Refer to the Ending for details. RoHS CAD

Common specifications

Descriptions	W4GB2
Valve and operation	Pilot operated soft spool valve
Working fluid	Compressed air
Max. working pressure MPa	0.7 (≈100 psi, 7 bar)
Min. working pressure MPa	0.2 (≈29 psi, 2 bar)
Proof pressure MPa	1.05 (≈150 psi, 10.5 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/locking common (standard)
Lubrication *1	Not required
Degree of protection *2	Dust proof/jet proof (IP65)
Vibration resistance m/s^2	49 or less
Shock resistance 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 995 for details.

Electrical specifications

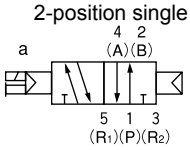
Descriptions		W4GB2
Rated voltage V	DC	12, 24
	AC	100
Voltage fluctuation range		±10%
Holding current A	24 VDC	0.025
	12 VDC	0.050
	100 VAC	0.012
Power consumption W	24 VDC	0.6
*3	12 VDC	0.6
Apparent power VA	100 VAC	1.2
Thermal class		B

*3: Surge suppressor and indicator are supplied as standard.

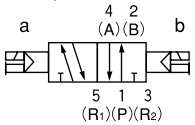
JIS symbol

● 5-port valve

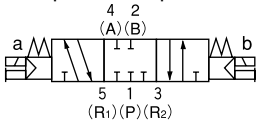
2-position single



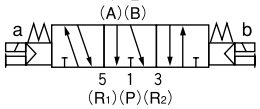
2-position double



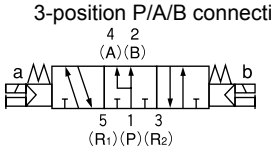
3-position all ports closed



3-position A/B/R connection



3-position P/A/B connection



Individual specifications

Descriptions		W4GB2
Port size	A/B Port	Rc1/4
	P/R port	Rc1/4

Descriptions			ON	OFF
Response time ms	2-position	Single	22	24
		Double	26	—
	3-position		25	35

The response time is the value with supply pressure of 0.5 MPa at 20°C and without lubrication. It depends on the pressure and the lubricant quality.

Descriptions			Terminal block	I/O connector
Weight g	2-position	Single	351	409
		Double	367	424
	3-position		374	431

Flow characteristics

Model No.	Solenoid position		P→A/B		A/B→R	
			C[dm^3/(s·bar)]	b	C[dm^3/(s·bar)]	b
W4GB2	2-position		2.5	0.27	2.5	0.20
	3-position	All ports closed	2.3	0.32	2.1	0.21
		ABR connection	2.3	0.30	2.2	0.22
		PAB connection	2.4	0.02	2.3	0.19

Note: Formula to calculate sonic conductance C from effective cross-sectional area S is S ≈ 5.0 x C.

Ozone-proof specifications · Coolant proof specifications

Can be selected with “How to order” Item Ⓓ option “A” on page 871.

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

How to order

● Single unit

W4GB2 1 0 - 08 - R1 H - 3

● Single sub-plate only

W4GB2 - SP - 08 - R1 F

● Discrete solenoid valve　Sub-plate

W4GB2 1 9 - 00 — H - 3

Ⓐ Solenoid position

Ⓑ Port size

Ⓒ Electrical connections
For circuit diagrams (inside the solenoid valve), refer to page 868.

Ⓓ Option

Ⓔ Voltage

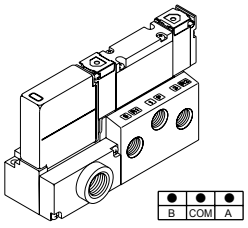
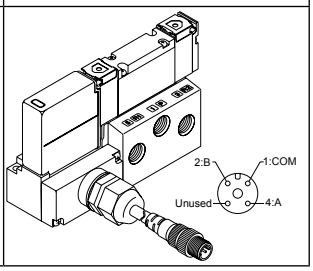
Code	Content	Single unit	Single sub-plate only	Discrete solenoid valve W4GB2
Ⓐ Solenoid position				
1	2-position single	●		●
2	2-position double	●		●
3	3-position all ports closed	●		●
4	3-position ABR connection	●		●
5	3-position PAB connection	●		●
Ⓑ Port size				
08	Rc1/4	●	●	
Ⓒ Electrical connections (lamp and surge suppressor provided as standard)				
Blank	Terminal block (with cable clamp)	●	●	●
R1	I/O connector (500 mm) (custom order)	●	●	
Ⓓ Option				
Blank	No option	●	●	●
M	Non-locking manual override *1	●		●
M7	Manual override with OFF function *1	●		●
H	With check valve *2	●		●
A	Ozone/coolant proof product	●		●
F	P/A/B port filter integrated	●	●	
Ⓔ Voltage				
1	100 VAC (rectifier integrated)	●		
3	24 VDC	●		●
4	12 VDC	●		●

⚠ Precautions for model selection

*1 : Non-locking manual override (M) and manual override with OFF function (M7) cannot be selected together.

*2 : 3-position all ports closed and PAB connection are not provided with the check valve specifications (H). For the exhaust check valve, refer to page 997.

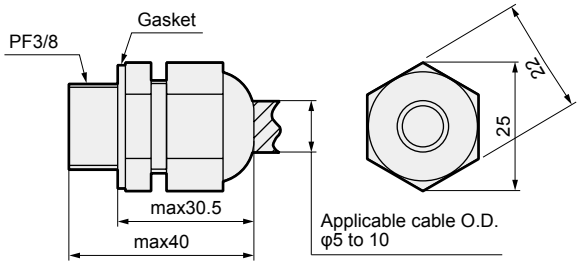
Electrical connections

Name	Terminal block	I/O connector
Code	Blank	R1
Shape / Terminal array		

Parts kit No. for terminal block

● Cable clamp (with gasket)

Model No.	Content
W4G-BMS-038GP	Used to protect cables from dust and jetting water.

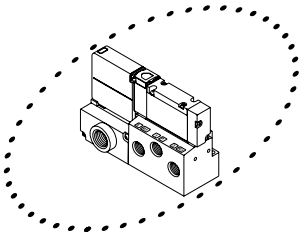


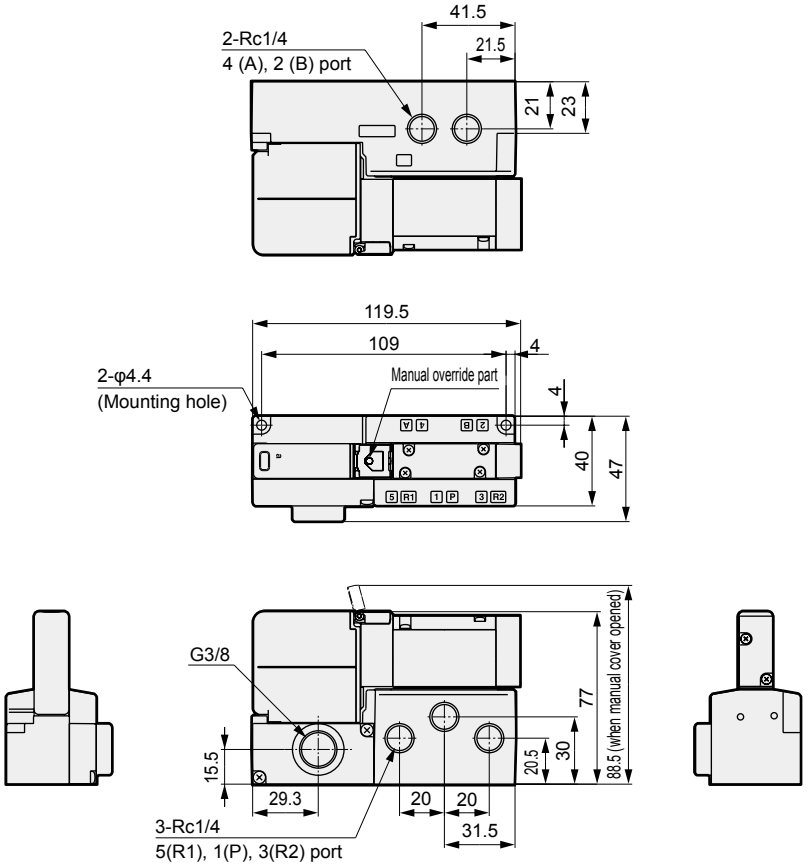
(Reference value)
Body tightening torque　2.0 to 2.5 N·m
Cable clamp tightening torque　1.5 to 2.0 N·m

Dimensions CAD

W4GB210

● Terminal block (blank)

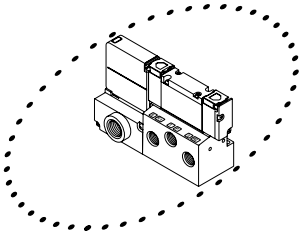


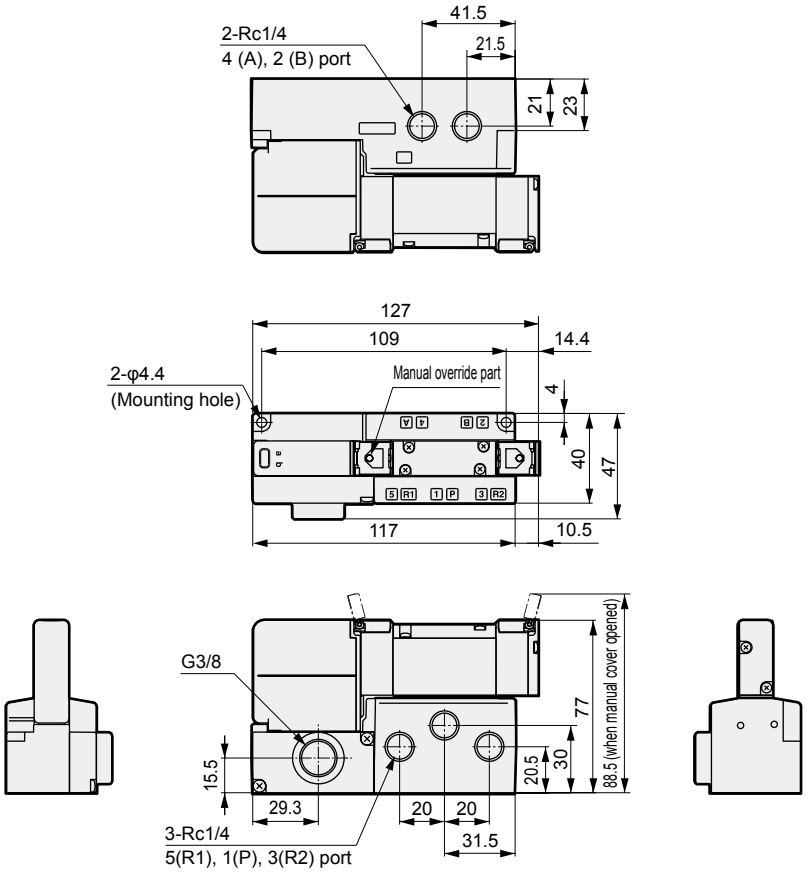


Note: For I/O connector (R1), refer to page 873.

W4GB220

● Terminal block (blank)

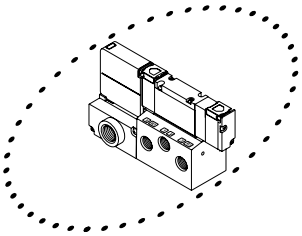


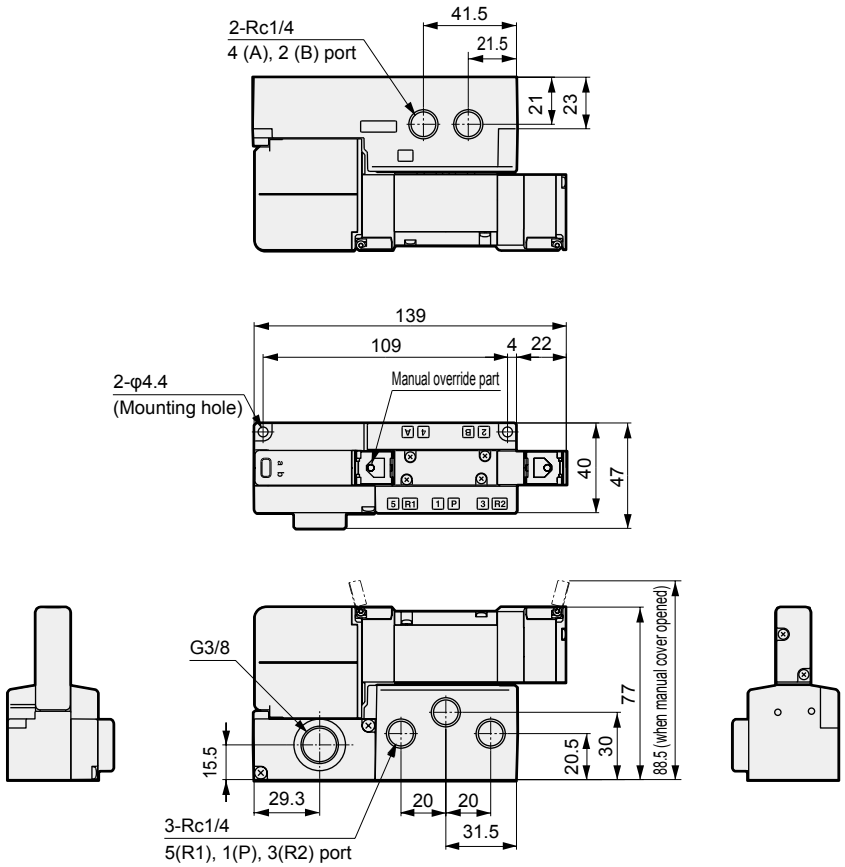


Dimensions

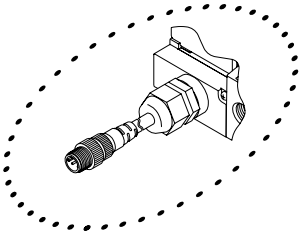
$W4GB2\begin{smallmatrix}3\\4\\5\end{smallmatrix}0$

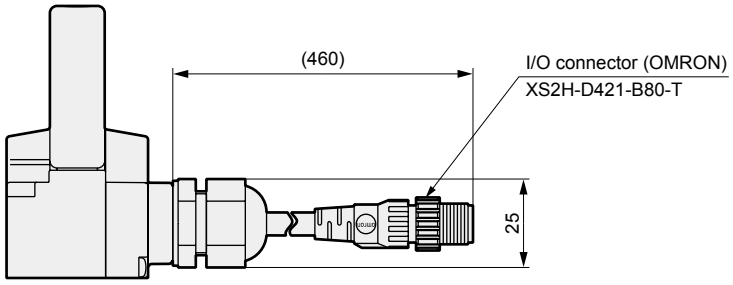
● Terminal block (blank)

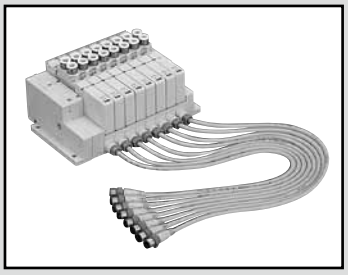




● I/O connector (R1)







Individual wiring manifold
Body piping

MW$^{3}_{4}$GA2-R1 Series

● Cylinder bore size: φ20 to φ80

RoHS

Manifold common specifications

Descriptions		MW3GA2/MW4GA2
Manifold		Block manifold
Supply and exhaust method		Common supply/common exhaust (with check valve built-in)
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (pilot exhaust check valve built-in)
	External pilot	Main valve/pilot valve individual exhaust
Valve and operation		Pilot operated soft spool valve
Working fluid		Compressed air
Max. working pressure MPa		0.7 (≈100 psi, 7 bar)
Min. working pressure MPa		0.2 (≈29 psi, 2 bar) *3
Proof pressure MPa		1.05 (≈150 psi, 10.5 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/locking common (standard)
Lubrication *1		Not required
Degree of protection *2		Dust proof/jet proof (IP65 or equivalent)
Vibration resistance m/s^2		49 or less
Shock resistance 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 995 for details.
*3 : The working pressure range is 0 to 0.7 MPa when the external pilot (option code: K) is selected.
Set the external pilot pressure between 0.2 and 0.7 MPa.

Electrical specifications

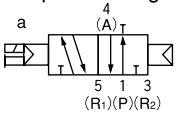
Descriptions		MW3GA2/MW4GA2
Rated voltage V	DC	12, 24
Voltage fluctuation range		±10%
Holding current A	24 VDC	0.025
	12 VDC	0.050
Power consumption W	24 VDC	0.6
*4	12 VDC	0.6
Thermal class		B

*4: Surge suppressor and indicator are supplied as standard.

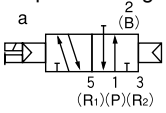
JIS symbol

● 3-port valve

2-position single NC

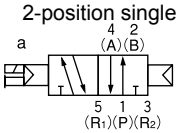


2-position single NO

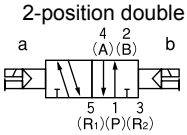


● 5-port valve

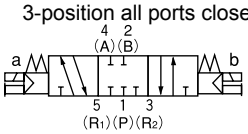
2-position single



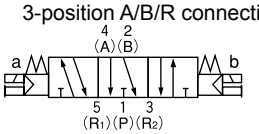
2-position double



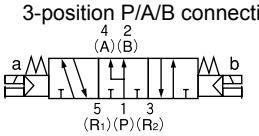
3-position all ports closed



3-position A/B/R connection



3-position P/A/B connection



Individual specifications

Descriptions		MW3GA2/MW4GA2
Max. station No.		16
Port size	A/B Port	Push-in fitting φ4, φ6, φ8, Rc1/8
	P/R port	Push-in fitting φ8, φ10

For weight, refer to page 876.

Descriptions			MW3GA2/MW4GA2	
			ON	OFF
Response time ms	2-position	Single	22	24
		Double	26	—
	3-position		25	35

The response time is the value with supply pressure of 0.5 MPa at 20°C and without lubrication. It depends on the pressure and the lubricant quality.

Flow characteristics

Model No.	Solenoid position		P→A/B		A/B→R	
			C[dm^3/(s·bar)]	b	C[dm^3/(s·bar)]	b
	2-position		2.2	0.35	1.7	0.25
MW3GA2	3-position	All ports closed	2.0	0.36	2.2	0.21
MW4GA2		ABR connection	2.1	0.34	1.7	0.26
		PAB connection	2.3	0.35	2.3	0.27

*1: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.
*2: Values of the 2-position and ABR connection are those with integrated check valve.

Ozone-proof specifications · Coolant proof specifications

Can be selected with “How to order” Item Ⓔ option “A” on page 875.

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**

How to order

Individual wiring I/O connector

● Manifold model No.

MW4GA2 1 0 - C8 — R1 H D - 5 - 3

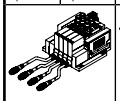
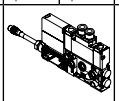
● Discrete valve block with solenoid valve

NW4GA2 1 0 - C8 — R1 H — 3

● Discrete solenoid valve for manifold

W4GA2 1 9 - C8 — H — 3

Ⓐ Model No. Ⓑ Solenoid position Ⓒ Port size *1 Ⓓ Wiring method For circuit diagrams (inside the solenoid valve), refer to page 868. Ⓔ Option Ⓕ Mount Ⓖ Station No. Ⓗ Voltage

Code	Content	Ⓐ Model No.					
		Manifold		Discrete valve block with solenoid valve		Discrete solenoid valve	
		3-port valve	5-port valve	3-port valve	5-port valve	3-port valve	5-port valve
							
		MW3GA2	MW4GA2	NW3GA2	NW4GA2	W3GA2	W4GA2
Ⓑ Solenoid position							
1	2-position single		●		●		●
2	2-position double		●		●		●
3	3-position all ports closed		●		●		●
4	3-position ABR connection		●		●		●
5	3-position PAB connection		●		●		●
1	2-position single normally closed	●		●		●	
11	2-position single normally open	●		●		●	
8	Mix manifold (when there are multiple solenoid positions)	●	●				
Ⓒ Port size (A/B-port)							
C4	φ4 push-in fitting	●	●	●	●	●	●
C6	φ6 push-in fitting	●	●	●	●	●	●
C8	φ8 push-in fitting	●	●	●	●	●	●
CX	Push-in fitting mix	●	●				
06	Rc1/8	●	●	●	●	●	●
Ⓓ Wiring method (including standard lamp and surge suppressor)							
R1	I/O connector (M12) (500 mm)	●	●	●	●		
Ⓔ Option							
Blank	No option	●	●	●	●	●	●
M	Non-locking manual override *2	●	●	●	●	●	●
M7	Manual override with OFF function *2	●	●	●	●	●	●
H	With check valve *3	●	●	●	●	●	●
K	External pilot	●	●				
A	Ozone/coolant proof product	●	●	●	●	●	●
F	A/B port filter built in *4	●	●	●	●	●	●
Z1	Air supply spacer *5	●	●				
Z3	Exhaust spacer *5	●	●				
Z8	Individual air supply compatible spacer with in-stop valve spacer *6/*7	●	●				
Ⓕ Mount							
Blank	Direct mount	●	●				
D	DIN rail mount	●	●				
Ⓖ Station No.							
2 to **16**	2 stations to 16 stations	●	●				
Ⓗ Voltage							
3	24 VDC	●	●	●	●	●	●
4	12 VDC	●	●	●	●	●	●

is not available.

⚠ Precautions for model selection

Be sure to fill in the “Manifold specifications sheet”.

*1 : Specify the P/R port bore size in the supply and exhaust block section.

*2 : Non-locking manual override (M) and manual override with OFF function (M7) cannot be selected together.

*3 : Check valve (H) is not available for 3-position all ports closed and 3-position PAB connection.
For the check valve, refer to page 997.

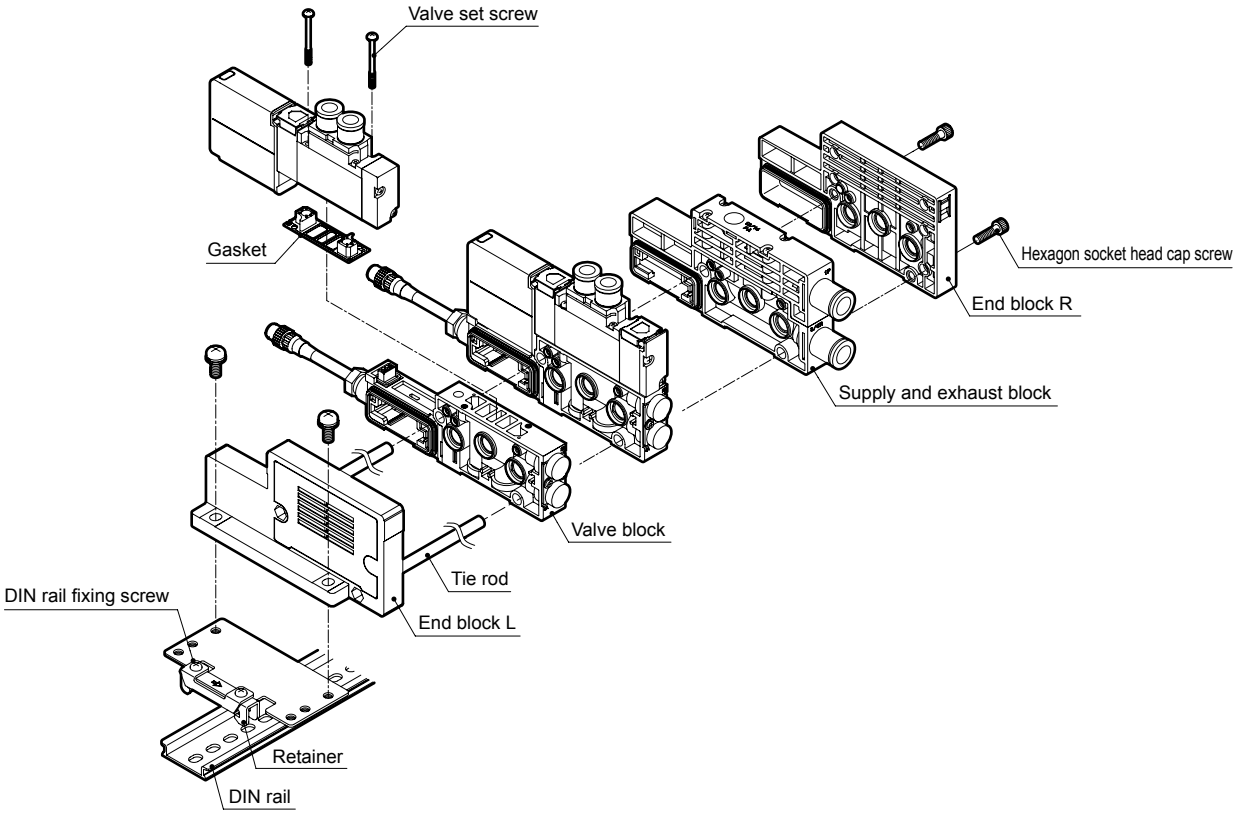
*4 : A filter is built into P-port.

*5 : Specify the spacer mounting position and quantity in manifold specifications sheet.
Stacking of spacers is not possible.
Combination with the masking plate is not supported.
Refer to pages 948 to 949 for details.

*6 : Not available when the fitting for port A/B is elbow.

*7 : Not compatible with combination with external pilot (K).

Manifold components explanation and parts list



List of main components (refer to pages 940 to 955 for details)

No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
1	End block	NW4G2-EL	4	Discrete solenoid valve for manifold	W4GA219-C8-H-3
2	Discrete valve block	NW4GA2-V-R1	5	Supply and exhaust block	NW4G2-Q-10
3	Discrete valve block with solenoid valve	NW4GA220-C8-R1H-3	6	End block R	NW4G2-ER

Weight (for DC)

NW4GA2 (g)

Part name	Model No.	Weight	Part name	Model No.	Weight
Valve block with solenoid valve	NW3GA210-*-R1*-*	220	Valve block with masking plate	NW4GA2-MP-R1	141
	NW3GA2110-*-R1*-*	220			
	NW4GA210-*-R1*-*	225			
	NW4GA220-*-R1*-*	241			
	NW4GA2$^{3}_{5}$0-*-R1*-*	248			

Common (g)

Part name	Model No.	Weight	Part name	Model No.	Weight
Supply and exhaust block	NW4G2-Q-*	137	End block	NW4G2-EL	91
	NW4G2-QK-*	140		NW4G2-EXL	96
	NW4G2-QZ-*	137	Air supply spacer	W4G2-P(K)-*	60
	NW4G2-QKZ-*	143	Exhaust spacer	W4G2-R-*-*	60
End block	NW4G2-ER	91	Spacer pilot check valve	W4G2-PC-M	183
	NW4G2-EXR	96	Individual air supply compatible spacer with in-stop valve spacer	W4G2-PIS-*	115

Repair parts and related parts list

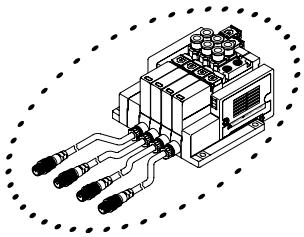
Applicable	Part name	Model No.
Valve	Cartridge fitting φ4 straight	4G2-JOINT-C4
	Cartridge fitting φ6 straight	4G2-JOINT-C6
	Cartridge fitting φ8 straight	4G2-JOINT-C8
	Plug cartridge	4G2-JOINT-CPG
Supply and exhaust block port PA	Cartridge fitting φ6 straight	N4G2-QK-JOINT-6
	Cartridge fitting φ6 elbow	N4G2-QK-JOINT-6L

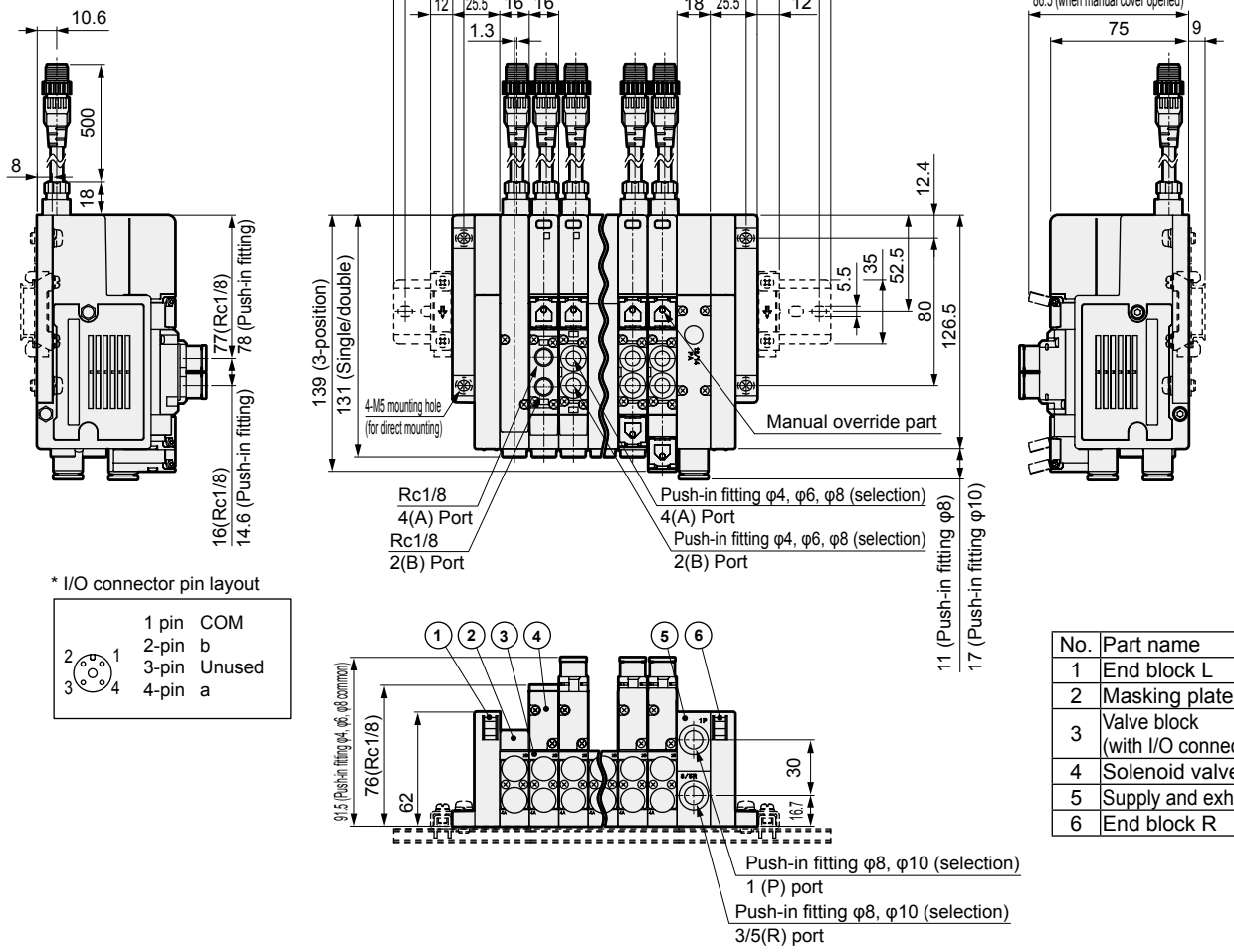
Applicable	Part name	Model No.
Supply and exhaust block port P/R	Cartridge fitting φ8 straight	N4G2-Q-JOINT-8
	Cartridge fitting φ10 straight	N4G2-Q-JOINT-10
	Cartridge fitting φ8 (short) elbow	N4G2-Q-JOINT-8L
	Cartridge fitting φ8 long elbow	N4G2-Q-JOINT-8LL
	Cartridge fitting φ10 (short) elbow	N4G2-Q-JOINT-10L
	Cartridge fitting φ10 long elbow	N4G2-Q-JOINT-10LL
	Plug cartridge	N4G2-Q-JOINT-PG

Dimensions

MW4GA2

● I/O connector (R1)





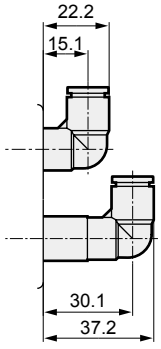
* I/O connector pin layout

1 pin	COM
2-pin	b
3-pin	Unused
4-pin	a

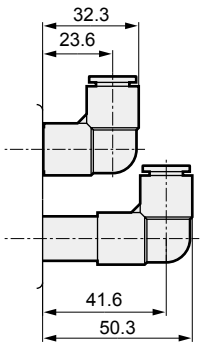
No.	Part name
1	End block L
2	Masking plate
3	Valve block (with I/O connector cable)
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

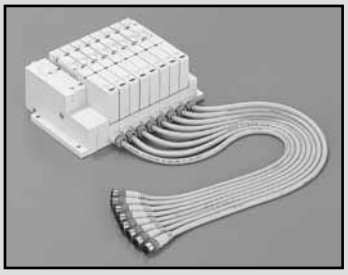
● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



● φ10(CL10)





Individual wiring manifold
Base side piping/base bottom piping

MW4G$^{B}_{Z}$2-R1 Series

● Cylinder bore size: φ20 to φ80

RoHS

Manifold common specifications

Descriptions	MW4GB2	MW4GZ2
Manifold	Block manifold	
Supply and exhaust method	Common supply/common exhaust (with check valve built-in)	
Pilot exhaust method	Internal pilot: Main valve/pilot valve common exhaust (pilot exhaust check valve built-in)	
	External pilot: 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	0.7 (≈100 psi, 7 bar)	
Min. working pressure MPa	0.2 (≈29 psi, 2 bar) *3	
Proof pressure MPa	1.05 (≈150 psi, 10.5 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/locking common (standard)	
Lubrication *1	Not required	
Degree of protection *2	Dust proof/jet proof (IP65 or equivalent)	
Vibration resistance m/s^2	49 or less	
Shock resistance 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 995 for details.
*3 : The working pressure range is 0 to 0.7 MPa when the external pilot (option code: K) is selected.
Set the external pilot pressure between 0.2 and 0.7 MPa.

Electrical specifications

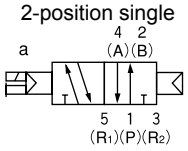
Descriptions		M4GB2
Rated voltage V	DC	12, 24
Voltage fluctuation range		±10%
Holding current A	24 VDC	0.025
	12 VDC	0.050
Power consumption W	24 VDC	0.6
*4	12 VDC	0.6
Thermal class		B

*4: Surge suppressor and indicator are supplied as standard.

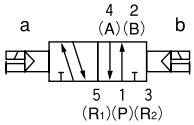
JIS symbol

● 5-port valve

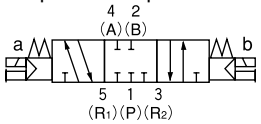
2-position single



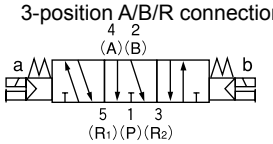
2-position double



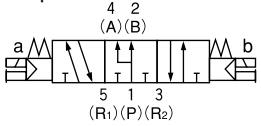
3-position all ports closed



3-position A/B/R connection



3-position P/A/B connection



Individual specifications

Descriptions		MW4GB2/MW4GZ2
Max. station No.		16
Port size	A/B Port	Push-in fitting φ4, φ6, φ8, Rc1/8
	P/R port	Push-in fitting φ8, φ10

For weight, refer to page 890.

Descriptions			MW4GB2/MW4GZ2 ON	MW4GB2/MW4GZ2 OFF
Response time ms	2-position	Single	22	24
		Double	26	—
	3-position		25	35

The response time is the value with supply pressure of 0.5 MPa at 20°C and without lubrication. It depends on the pressure and the lubricant quality.

Flow characteristics

Model No.	Solenoid position		P→A/B C[dm^3/(s·bar)]	P→A/B b	A/B→R C[dm^3/(s·bar)]	A/B→R b
MW4GB2 MW4GZ2	2-position		2.4	0.36	1.7	0.25
	3-position	All ports closed	2.1	0.37	2.2	0.22
		ABR connection	2.2	0.35	1.7	0.25
		PAB connection	2.3	0.32	2.3	0.24

*1: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.
*2: Values of the 2-position and ABR connection are those with integrated check valve.

Ozone-proof specifications · Coolant proof specifications

Can be selected with “How to order” Item Ⓔ option “A” on page 879.

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**

How to order

Individual wiring I/O connector

● Manifold model No.

MW4GB2 1 0 - C8 – R1 H D - 5 - 3
MW4GZ2 1 0 - C8 – R1 H — 5 - 3

● Discrete valve block with solenoid valve

NW4GB2 1 0 - C8 – R1 H — 3
NW4GZ2 1 0 - C8 – R1 H — 3

● Discrete solenoid valve for manifold (common for NW4GB2/NW4GZ2 *1)

W4GB2 1 9 - 00 — H — 3

Ⓐ Model No.
Ⓑ Solenoid position
Ⓒ Port size *2 *3
Ⓓ Wiring method
For circuit diagrams (inside the solenoid valve), refer to page 868.
Ⓔ Option *4
Ⓕ Mount
Ⓖ Station No.
Ⓗ Voltage

Code	Content	Ⓐ Model No. Manifold MW4GB2	Manifold MW4GZ2	Discrete valve block with solenoid valve NW4GB2	Discrete valve block with solenoid valve NW4GZ2	Discrete solenoid valve W4GB2
Ⓑ Solenoid position						
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)	●	●			
Ⓒ Port size (A/B-port)						
C4	φ4 push-in fitting	●	●	●	●	
C6	φ6 push-in fitting	●	●	●	●	
C8	φ8 push-in fitting	●	●	●	●	
CL6	φ6 radial push-in fitting (upward)	●		●		
CL8	φ8 radial push-in fitting (upward)	●		●		
CX	Push-in fitting mix	●	●			
Single, plug	A port / B port					
C4NC	φ4 push-in fitting / Plug	●	●	●	●	
C6NC	φ6 push-in fitting / Plug	●	●	●	●	
C8NC	φ8 push-in fitting / Plug	●	●	●	●	
C4NO	Plug / φ4 push-in fitting	●	●	●	●	
C6NO	Plug / φ6 push-in fitting	●	●	●	●	
C8NO	Plug / φ8 push-in fitting	●	●	●	●	
CL6NC	φ6 radial push-in fitting (upward) / Plug	●		●		
CL8NC	φ8 radial push-in fitting (upward) / Plug	●		●		
CL6NO	Plug / φ6 radial push-in fitting (upward)	●		●		
CL8NO	Plug / φ8 radial push-in fitting (upward)	●		●		
Ⓓ Wiring method (including standard light and surge suppressor)						
R1	I/O connector (M12) (500 mm)	●	●	●	●	
Ⓔ Option						
Blank	No option	●	●	●	●	●
M	Non-locking manual override *5	●	●	●	●	●
M7	Manual override with OFF function *5	●	●	●	●	●
H	With check valve *6	●	●	●	●	●
K	External pilot	●	●			
A	Ozone/coolant proof product	●	●	●	●	●
F	A/B port filter built in *7	●	●	●	●	
Z1	Air supply spacer *4	●	●			
Z3	Exhaust spacer *4	●	●			
Z6	Spacer pilot check valve *4/*8	●	●			
Z8	Individual air supply compatible spacer with in-stop valve spacer *4/*8/*9	●	●			
Ⓕ Mount						
Blank	Direct mount	●	●			
D	DIN rail mount	●				
Ⓖ Station No.						
2 to 16	2 stations to 16 stations	●	●			
Ⓗ Voltage						
3	24 VDC	●	●	●	●	●
4	12 VDC	●	●	●	●	●

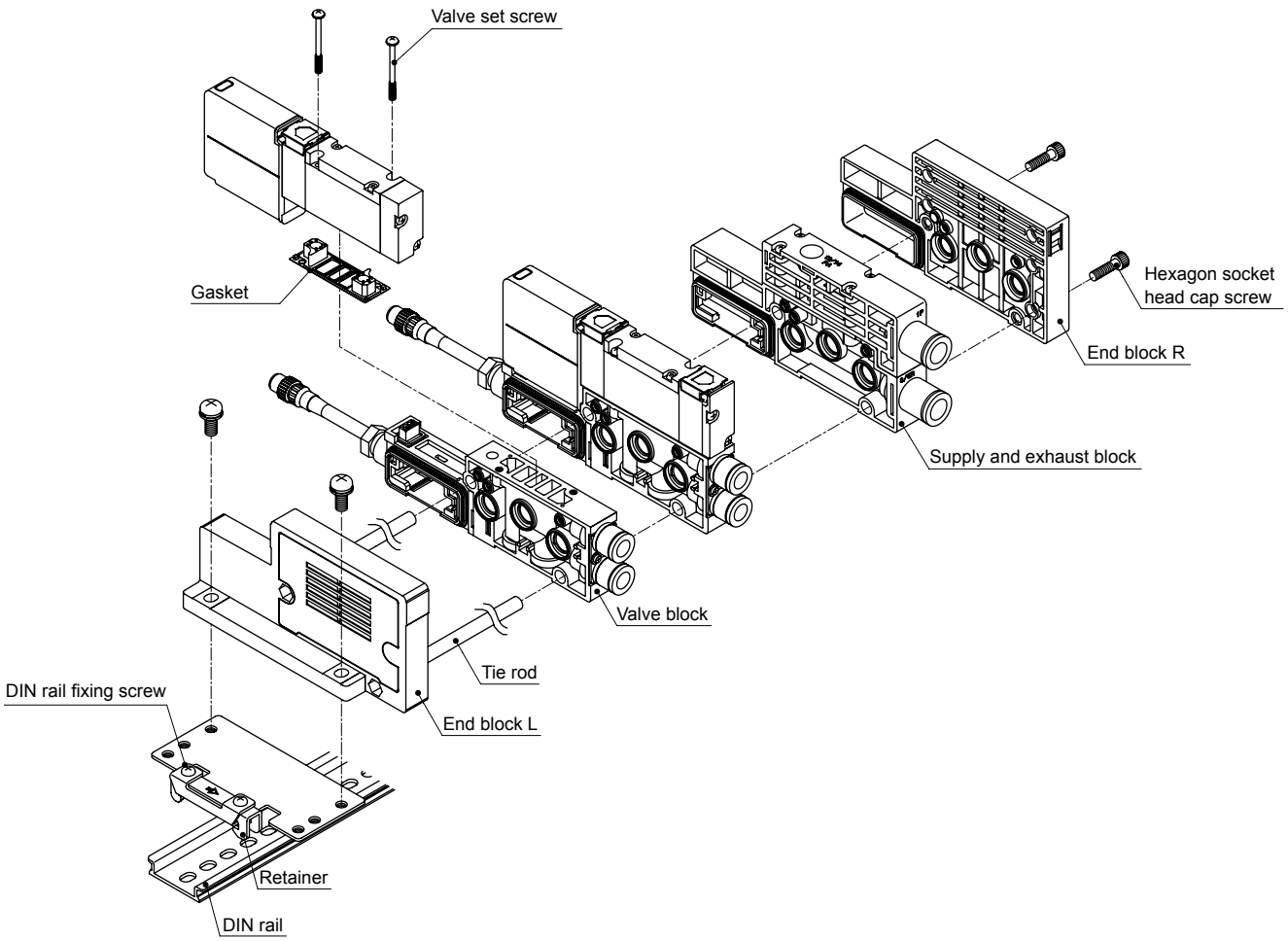
is not available.

⚠ Precautions for model selection

Be sure to fill in the “Manifold specifications sheet”.

*1 : The W4GB2*9 discrete solenoid valve is used for the NW4GZ2 discrete valve block with solenoid valve.
*2 : Plugs of ports A and B (*NC/*NO) are available for the 2-position single only.
Specify the P/R port bore size in the supply and exhaust block section.
3 : CL radial push-in fitting (upward) is available for the single and double only. Long elbow is for A port and short elbow for B port. Ports A and B are the same size in the radial push-in fitting (upward) mix (CX). If CL* NC/NO is selected, the fitting is a short elbow.
*4 : Specify the spacer mounting position and quantity in manifold specifications sheet. Stacking of spacers is not possible.
Combination with the masking plate is not supported.
Refer to pages 948 to 949 for details.
*5 : Non-locking manual override (M) and manual override with OFF function (M7) cannot be selected together.
*6 : Check valve (H) is not available for 3-position all ports closed and 3-position PAB connection.
For the check valve, refer to page 997.
*7 : A filter is built into P-port.
*8 : Not available when the fitting for port A/B is elbow.
*9 : Not compatible with combination with external pilot (K).

Manifold components explanation and parts list



List of main components (refer to pages 940 to 955 for details)

No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
1	End block	NW4G2-EL	4	Discrete solenoid valve for manifold	W4GB219-00-H-3
2	Discrete valve block	NW4GB2-V-C8-R1	5	Supply and exhaust block	NW4G2-Q-10
3	Discrete valve block with solenoid valve	NW4GB220-C8-R1H-3	6	End block R	NW4G2-ER

Weight (for DC)

NW4GB2 / NW4GZ2 (g)

Part name	Model No.	Weight	Part name	Model No.	Weight
Valve block with solenoid valve	NW4GB210-*-R1*-*	216	Valve block with solenoid valve	NW4GZ210-*-R1*-*	216
	NW4GB220-*-R1*-*	232		NW4GZ220-*-R1*-*	231
	NW4GB2$^{3}_{5}$0-*-R1*-*	239		NW4GZ2$^{3}_{5}$0-*-R1*-*	238
Valve block with masking plate	NW4GB2-MP-C8-R1	152	Valve block with masking plate	NW4GZ2-MP-C8-R1	151

COMMON (g)

Part name	Model No.	Weight	Part name	Model No.	Weight
Supply and exhaust block	NW4G2-Q-*	137	End block	NW4G2-EL	91
	NW4G2-QK-*	140		NW4G2-EXL	96
	NW4G2-QZ-*	137	Air supply spacer	W4G2-P(K)-*	60
	NW4G2-QKZ-*	143	Exhaust spacer	W4G2-R-*-*	60
End block	NW4G2-ER	91	Spacer pilot check valve	W4G2-PC-M	183
	NW4G2-EXR	96	Individual air supply compatible spacer with in-stop valve spacer	W4G2-PIS-*	115

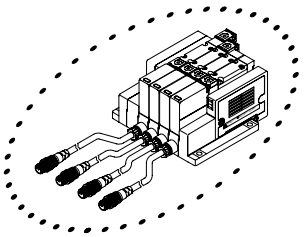
Parts list

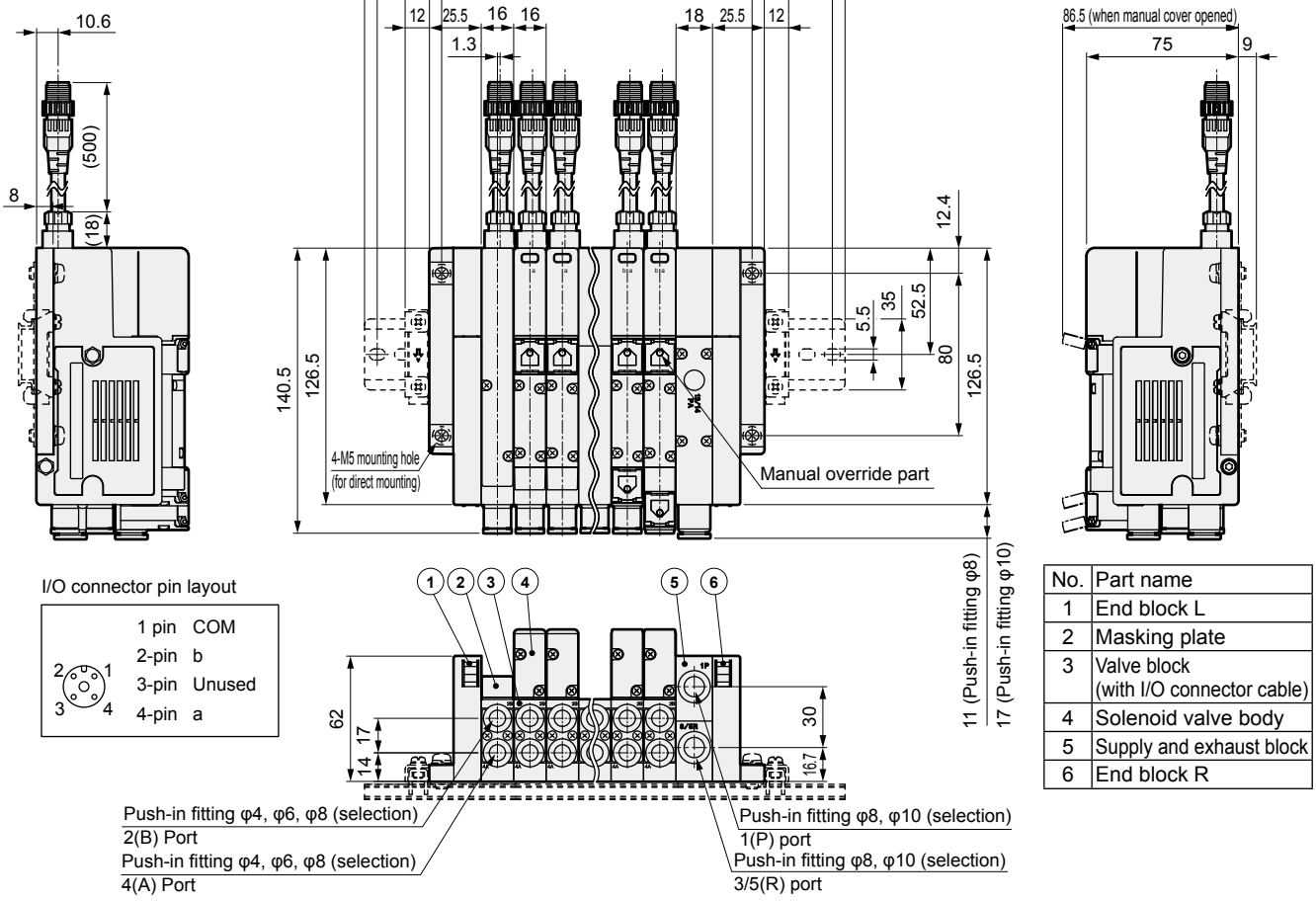
No.	Part name	Model No.
Valve block	Cartridge fitting φ4 straight	4G2-JOINT-C4
	Cartridge fitting φ6 straight	4G2-JOINT-C6
	Cartridge fitting φ8 straight	4G2-JOINT-C8
	Cartridge fitting φ6 (short) elbow	4G2-JOINT-CL6
	Cartridge fitting φ6 long elbow	4G2-JOINT-CLL6
	Cartridge fitting φ8 (short) elbow	4G2-JOINT-CL8
	Cartridge fitting φ8 long elbow	4G2-JOINT-CLL8
	Plug cartridge	4G2-JOINT-CPG
Supply and exhaust block port P/R	Cartridge fitting φ8 straight	N4G2-Q-JOINT-8
	Cartridge fitting φ10 straight	N4G2-Q-JOINT-10
	Cartridge fitting φ8 (short) elbow	N4G2-Q-JOINT-8L
	Cartridge fitting φ8 long elbow	N4G2-Q-JOINT-8LL
	Cartridge fitting φ10 (short) elbow	N4G2-Q-JOINT-10L
	Cartridge fitting φ10 long elbow	N4G2-Q-JOINT-10LL
	Plug cartridge	N4G2-Q-JOINT-PG
Supply and exhaust block port PA	Cartridge fitting φ6 straight	N4G2-QK-JOINT-6
	Cartridge fitting φ6 elbow	N4G2-QK-JOINT-6L

Dimensions

MW4GB2

● I/O connector (R1)



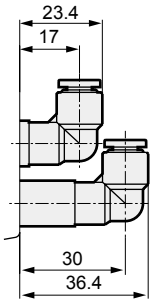


I/O connector pin layout

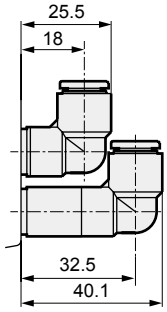
No.	Part name
1	End block L
2	Masking plate
3	Valve block (with I/O connector cable)
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

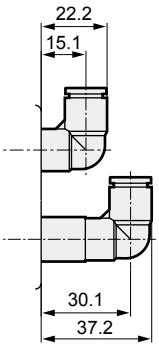


● φ8(CL8)

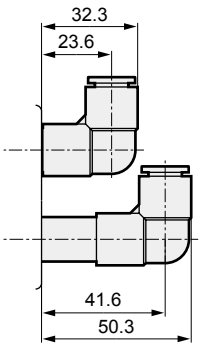


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



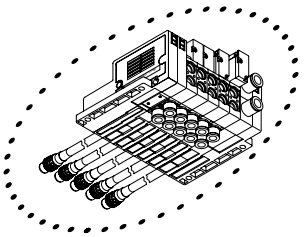
●φ10(CL10)

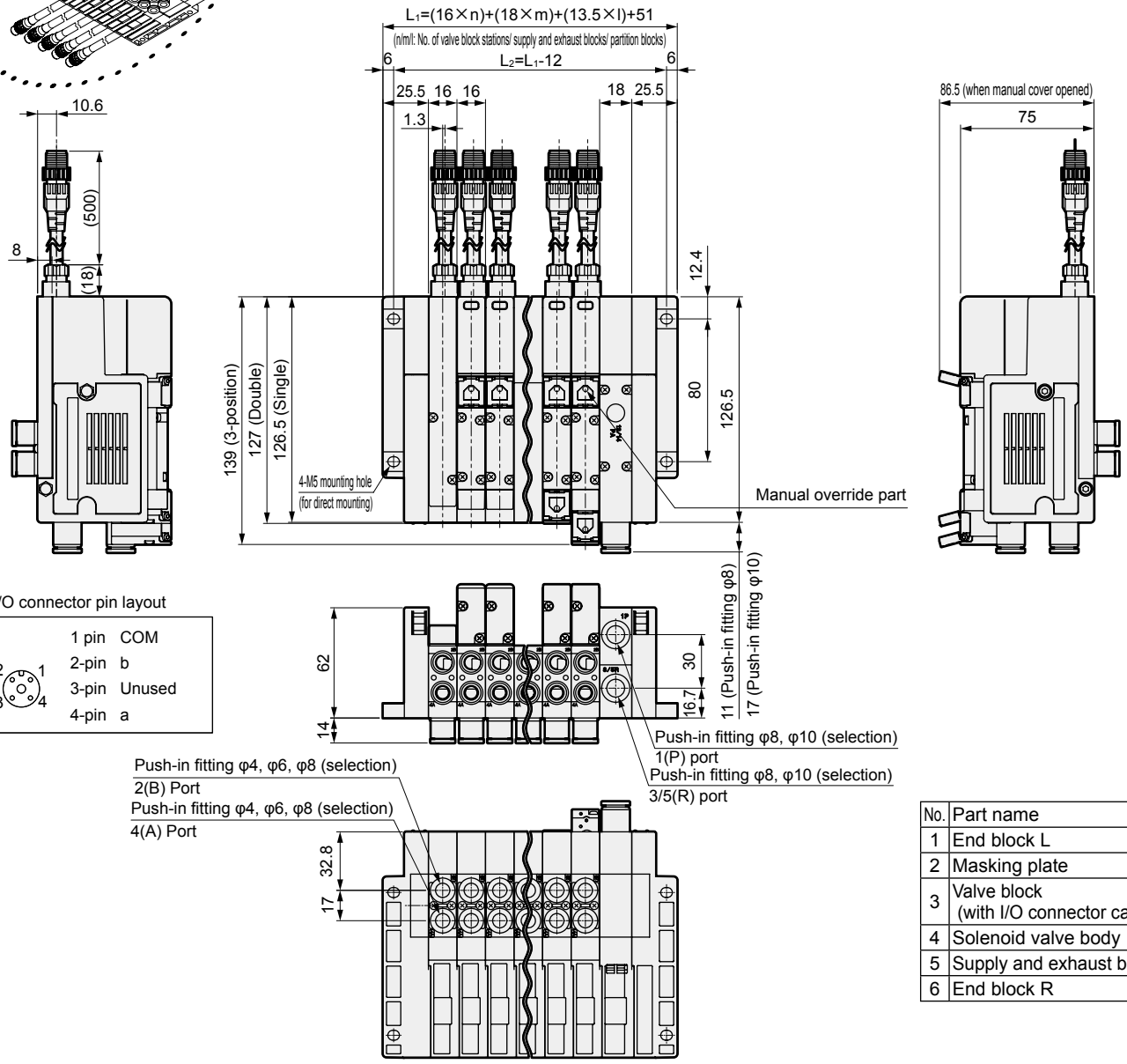


Dimensions

MW4GZ2

● I/O connector (R1)





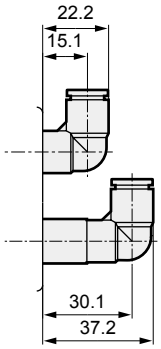
* I/O connector pin layout

1 pin	COM
2-pin	b
3-pin	Unused
4-pin	a

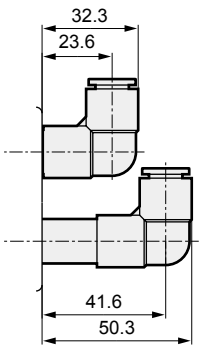
No.	Part name
1	End block L
2	Masking plate
3	Valve block (with I/O connector cable)
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

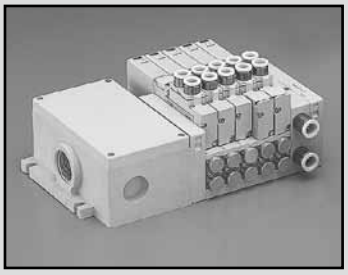
● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



● φ10(CL10)





Reduced wiring manifold
Body piping

MW$^{3}_{4}$GA2-T1/2/3/5/7/8 Series

● Cylinder bore size: φ20 to φ80

CE Refer to the Ending for details. RoHS CAD

Manifold common specifications

Descriptions		MW3GA2/MW4GA2
Manifold		Block manifold
Supply and exhaust method		Common supply/common exhaust (with check valve built-in)
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (pilot exhaust check valve built-in)
	External pilot	Main valve/pilot valve individual exhaust
Piping direction		Valve top direction
Valve and operation		Pilot operated soft spool valve
Working fluid		Compressed air
Max. working pressure MPa		0.7 (≈100 psi, 7 bar)
Min. working pressure MPa		0.2 (≈29 psi, 2 bar) *4
Proof pressure MPa		1.05 (≈150 psi, 10.5 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/locking common (standard)
Lubrication *1		Not required
Degree of protection *2		Dust-proof/jet-proof (IP65) *3
Vibration resistance m/s^2		49 or less
Shock resistance 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 995 for details.
3 : The degree of protection of D sub-connector (T30) and flat cable connector (T5) is dust-proof IP40 or equivalent. Avoid water drops or oil, etc., during use.
*4 : The working pressure range is 0 to 0.7 MPa when the external pilot (option code: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.

Electrical specifications

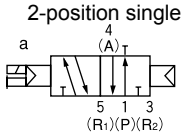
Descriptions		MW3GA2/MW4GA2
Rated voltage V	DC	12, 24
	AC	100
Voltage fluctuation range		±10%
Holding current A	24 VDC	0.025
	12 VDC	0.050
	100 VAC	0.012
Power consumption W *5	24 VDC	0.6
	12 VDC	0.6
Apparent power VA *6	100 VAC	1.2
Thermal class		B

*5: Surge suppressor and indicator are supplied as standard.
*6: Multi-connector, D sub-connector and flat cable connector are not available with 100 VAC.
Serial transmission is not available with 100 VAC and 12 VDC.

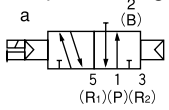
JIS symbol

● 3-port valve

2-position single NC

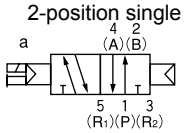


2-position single NO

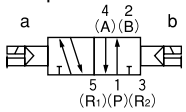


● 5-port valve

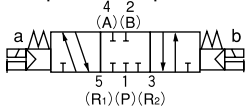
2-position single



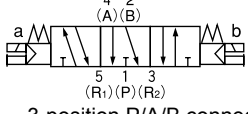
2-position double



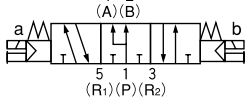
3-position all ports closed



3-position A/B/R connection



3-position P/A/B connection



Individual specifications

Descriptions		MW3GA2/MW4GA2														
		T10	T20	T30	T51	T53	T7EC □1	T7EC □2	T7EC □7	T8G1 T8D1	T8G2 T8D2	T8G7 T8D7	T8MA	T8M6	T8C1	T8C6
Max. station No.	Standard wiring	18	—	18	18	18	16	18	16	16	18	16	4	8	16	8
	Double wiring	9	8	12	9	12	8	16	8	8	16	8	2	4	8	4
Max. number of solenoids		18	16	24	18	24	16	32	16	16	32	16	4	8	16	8
Port size	A/B Port	Push-in fitting φ4, φ6, φ8, Rc1/8														
	P/R port	Push-in fitting φ8, φ10														

For weight, refer to page 892.

Descriptions			MW3GA2/MW4GA2	
			ON	OFF
Response time ms	2-position	Single	22	24
		Double	26	—
	3-position		25	35

The response time is the value with supply pressure of 0.5 MPa at 20°C and without lubrication. It depends on the pressure and the lubricant quality.

Flow characteristics

Model No.	Solenoid position		P→A/B		A/B→R	
			C[dm^3/(s·bar)]	b	C[dm^3/(s·bar)]	b
MW3GA2 MW4GA2	2-position		2.2	0.35	1.7	0.25
	3-position	All ports closed	2.0	0.36	2.2	0.21
		ABR connection	2.1	0.34	1.7	0.26
		PAB connection	2.3	0.35	2.3	0.27

*1: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.
*2: Values of the 2-position and ABR connection are those with integrated check valve.

Ozone-proof specifications · Coolant proof specifications

Select "A" of Item Ⓖ Option in How to order on pages 888 and 890.

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**

Reduced wiring specifications

Descriptions	T10	T20	T30	T51	T53
Type	Common terminal block M3 thread	Multi-connector	D sub-connector	20-pin flat cable connector without power supply terminal	26-pin flat cable connector without power supply terminal
Connector	—	Hirose Electric Co., Ltd., RM21WTP-20S, 20 pins	D sub-connector (female) 25-pin	MIL-C-83503 standard compliant pressure welding socket 20-pin	MIL-C-83503 standard compliant pressure welding socket 26-pin

Specifications of serial transmission slave units (Refer to page 976 for the PLC compatibility table)

Descriptions		Slave unit dedicated for valves (without I/O block)				Slave unit with I/O block	
		T7EC1	T7EC2	T7ECP1	T7ECP2	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	110 mA or less				110 mA or less (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	0/32	0/16	0/32	16/16	
Operation display		Power supply/communication status/valve power supply					
Degree of protection		IP65					

Descriptions \ Network name		CC-Link(Ver1.10)			DeviceNet *1			AS-i(Ver2.0)	
Slave unit model No.		T8G1	T8G2	T8G7	T8D1	T8D2	T8D7	T8MA	T8M6
Communication speed		156K/625K/2.5M/5M/10Mbps			125K/250K/500Kbps			167Kbps	
Power supply voltage	Unit side	24 VDC ±10%			24 VDC ±10%			30 VDC ±2%	
	Valve side	24 VDC +10%, -5%			24 VDC +10%, -5%			24 VDC +10%, -5%	
	Communication side	—			11 to 25 VDC			—	
Current consumption	Unit side	60 mA or less	100 mA or less	75 mA or less *2	70 mA or less	90 mA or less	80 mA or less *2	60 mA or less *2	90 mA or less *2
	Valve side	15 mA or less (when all points are OFF)			15 mA or less (when all points are OFF)			15 mA or less (when all points are OFF)	
	Communication side	—			50 mA or less			—	
Valve output		NPN			NPN			NPN	
Input/output point count		0/16	0/32	16/16	0/16	0/32	16/16	4/4 *3	8/8 *4
Occupied number		1 station			2 bytes	4 bytes	4 bytes	1 station	2 stations
Operation display		Power supply/communication status/valve power supply			Communication status/valve power supply			Communication status/valve power supply	
Others		—			For EDS file, contact CKD. *5			Profile: 7, F *6	

Descriptions \ Network name		CompoBus/S	
Slave unit model No.		T8C1	T8C6
Communication speed		93.75K/750Kbps	
Power supply voltage	Unit side	24 VDC ± 10% (communication power supply)	
	Valve side	24 VDC +10%, -5%	
	Communication side	—	
Current consumption	Unit side	50 mA or less *2 (communication power supply)	
	Valve side	15 mA or less (when all points are OFF)	
	Communication side	—	
Valve output		NPN	
Input/output point count		0/16	8/8
Occupied number		—	
Operation display		Power supply/communication status/valve power supply	
Others		—	

*1: Compatible with DeviceNet compliant networks (DLNK, etc.) as well.
*2: If the feed power supply of the input blocks also serves as the unit power supply, use the formula below for calculation.
(unit current consumption) = [*] + (35 mA x number of input blocks) + (total internal current consumption of connected sensors)
[*] ……T8G7:60 mA, T8D7:80 mA, T8MA:60 mA, T8M6:90 mA, T8C6:50 mA
Note that the sensors should be selected so that the unit current consumption is 600 mA or less for T8G7 and T8D7 and 250 mA or less for T8MA, T8M6 and T8C6.
*3: Outputs of the slave unit with 4 inputs/4 outputs (T8MA) are all dedicated for valves.
*4: The slave unit with 8 inputs/8 outputs (T8M6) requires two addresses. Therefore, the automatic address setting cannot be used.
*5: EDS file: A text file of parameters for communication with various companies' master units
*6: Profile: Definition of meanings of I/O data and parameters of the slave unit for communication with the master unit. Defined in the AS-i specifications.

I/O block specifications

● Input block

Model No. / Descriptions	NW4GA2-IN-N-K	NW4GA2-IN-N-B	NW4GA2-IN-P-K	NW4GA2-IN-P-B
Number of inputs	4 points			
Rated input voltage	24 VDC			
Rated input current	7 mA			
ON voltage	15 VDC or more (between input terminals and V)		15 VDC or more (between input terminals and G)	
OFF voltage/OFF current	5 VDC or less (between input terminal and V)/1.5 mA or less		5 VDC or less (between input terminal and G)/1.5 mA or less	
Input	Sink		Source	
Supply power	Common with unit power supply	Externally supplied power	Common with unit power supply	Externally supplied power
Operation display	Power supply/input status			

*1: Refer to page 948 for model No.

● Output block

Model No. / Descriptions	NW4GA2-ONT-N-B	NW4GA2-OUT-P-B
Output points	4 points	
Rated voltage	24 VDC	
Max. load current	1 A/1 point (3 A/common)	
Residual voltage	1.5 V or less	
Output	Sink	Source
Protection circuit	Overcurrent protection/reverse connection protection	
Fuse	Power supply for external load: 24 VDC and 5 A (can be replaced)	
Operation display	Power supply/output status	

*1: Refer to page 948 for model No.

MEMO

MW$^{3}_{4}$GA2-T1/2/3/5 Series

Reduced wiring manifold; body piping

How to order

Common terminal block/multi-connector/D sub-connector/flat cable connector

● Manifold model No.

MW4GA2 1 0 - C8 — T10 W H D - 5 - 3

● Discrete valve block with solenoid valve

NW4GA2 1 0 - C8 - ○ W H — 3

● Discrete solenoid valve for manifold

W4GA2 1 9 - C8 — H — 3

Ⓐ Model No. Ⓑ Solenoid position Ⓒ Port size *1 Ⓓ Electrical connections *2 Ⓔ Reduced wiring connection Ⓕ Terminal/connector pin array Ⓖ Option *3 Ⓗ Mount Ⓘ Station No. Ⓙ Voltage

· For model No. of the cable with D sub-connector, refer to page 967.
· Refer to page 970 for the model No. of cables for flat cable connector.

Code	Content	Ⓐ Model No. Manifold 3-port valve: MW3GA2	Manifold 5-port valve: MW4GA2	Discrete valve block with solenoid valve 3-port valve: NW3GA2	Discrete valve block with solenoid valve 5-port valve: NW4GA2	Discrete solenoid valve 3-port valve: W3GA2	Discrete solenoid valve 5-port valve: W4GA2
Ⓑ Solenoid position							
1	2-position single		●		●		●
2	2-position double		●		●		●
3	3-position all ports closed		●		●		●
4	3-position ABR connection		●		●		●
5	3-position PAB connection		●		●		●
1	2-position single normally closed	●		●		●	
11	2-position single normally open	●		●		●	
8	Mix manifold (when there are multiple solenoid positions)	●	●				
Ⓒ Port size (A/B-port)							
C4	φ4 push-in fitting	●	●	●	●	●	●
C6	φ6 push-in fitting	●	●	●	●	●	●
C8	φ8 push-in fitting	●	●	●	●	●	●
CX	Push-in fitting mix	●	●				
06	Rc1/8	●	●	●	●	●	●
Ⓓ Electrical connections							
Blank	DC connector relay board			●	●		
2 to 8	Select the AC cable length from page 943.			●	●		
Ⓔ Reduced wiring (lamp and surge suppressor provided as standard)							
Refer to the next page for reduced wiring.							
Ⓕ Terminal/connector pin array							
Blank	Standard wiring *4	●	●	●	●		
W	Double wiring *4	●	●	●	●		
Ⓖ Option							
Blank	No option	●	●	●	●	●	●
M	Non-locking manual override *5	●	●	●	●	●	●
M7	Manual override with OFF function *5	●	●	●	●	●	●
H	With check valve *6	●	●	●	●	●	●
K	External pilot	●	●				
A	Ozone/coolant proof product	●	●	●	●	●	●
F	A/B port filter built in *7	●	●	●	●	●	●
Z1	Air supply spacer *3	●	●				
Z3	Exhaust spacer *3	●	●				
Z8	Individual air supply compatible spacer with in-stop valve spacer *3/*8/*9	●	●				
Ⓗ Mount							
Blank	Direct mount	●	●				
D	DIN rail mount	●	●				
Ⓘ Station No.							
2 to 18	2 stations to 18 stations (Differs depending on the reduced wiring specifications. Refer to the individual specifications (page 884).)	●	●				
Ⓙ Voltage							
1	100 VAC (rectifier integrated)	●	●	●	●	●	●
3	24 VDC	●	●	●	●	●	●
4	12 VDC	●	●	●	●	●	●

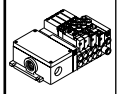
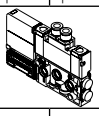
is not available.

⚠ Precautions for model selection

Be sure to fill in the “Manifold specifications sheet”.

*1 : Specify the P/R port bore size in the supply and exhaust block section.
*2 : If a change of specifications is expected in the AC, select a valve block with masking plate as a spare block.
*3 : Specify the spacer mounting position and quantity in manifold specifications sheet.
Stacking of spacers is not possible.
Combination with the masking plate is not supported.
Refer to pages 948 to 949 for details.
*4 : Blank.....The wiring will be based on the type of valve used.
W.....All wired as double solenoid regardless of the type of valve used.
It is not necessary to select W if no single solenoid is used.
Double wiring will automatically be applied to multi-connector T20 and AC voltage even if W is not specified, since they are only for double wiring.
*5 : Non-locking manual override (M) and manual override with OFF function (M7) cannot be selected together.
*6 : Check valve (H) is not available for 3-position all ports closed and 3-position PAB connection.
For the check valve, refer to page 997.
*7 : A filter is built into P-port.
*8 : Not available when the fitting for port A/B is elbow.
*9 : Not compatible with combination with external pilot (K).

[Reduced wiring list]

		Ⓐ Model No.					
		Manifold		Discrete valve block with solenoid valve		Discrete solenoid valve	
		3-port valve	5-port valve	3-port valve	5-port valve	3-port valve	5-port valve
							
		MW3GA2	MW4GA2	NW3GA2	NW4GA2	W3GA2	W4GA2
Ⓔ Reduced wiring (lamp and surge suppressor provided as standard)							
T10	Common terminal block (M3 screw) Left-sided spec.	●	●				
T20	Multi-connector Left-sided spec. *10	●	●				
T30	D sub-connector Left-sided spec. *10	●	●				
T51	20-pin flat cable connector (no power terminal) Left-sided spec. *10	●	●				
T53	26-pin flat cable connector (no power terminal) Left-sided spec. *10	●	●				

10: Multi-connector (T20), D sub-connector (T30) and flat cable connector (T5)
Connection specifications do not include 100 VAC setting.

How to order

Serial transmission

● Manifold model No.

MW4GA2 (1) 0 - C8 — T8G1 (W) (H) (D) - 5 - 3

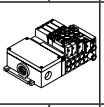
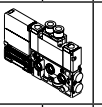
● Discrete valve block with solenoid valve

NW4GA2 (1) 0 - C8 - ( ) (W) (H) — 3

● Discrete solenoid valve for manifold

W4GA2 (1) 9 - C8 — (H) — 3

Ⓐ Model No.
Ⓑ Solenoid position
Ⓒ Port size *1
Ⓓ Electrical connections
Ⓔ Reduced wiring connection
For circuit diagrams (inside the solenoid valve), refer to page 868.
Ⓕ Terminal/connector pin array
Ⓖ Option *2
Ⓗ Mount
Ⓘ Station No.
Ⓙ Voltage

Code	Content	Ⓐ Model No.					
		Manifold		Discrete valve block with solenoid valve		Discrete solenoid valve	
		3-port valve	5-port valve	3-port valve	5-port valve	3-port valve	5-port valve
							
		MW3GA2	MW4GA2	NW3GA2	NW4GA2	W3GA2	W4GA2
Ⓑ Solenoid position							
1	2-position single		●		●		●
2	2-position double		●		●		●
3	3-position all ports closed		●		●		●
4	3-position ABR connection		●		●		●
5	3-position PAB connection		●		●		●
1	2-position single normally closed	●		●		●	
11	2-position single normally open	●		●		●	
8	Mix manifold (when there are multiple solenoid positions)	●	●				
Ⓒ Port size (A/B-port)							
C4	φ4 push-in fitting	●	●	●	●	●	●
C6	φ6 Push-in fitting	●	●	●	●	●	●
C8	φ8 Push-in fitting	●	●	●	●	●	●
CX	Push-in fitting mix	●	●				
06	Rc1/8	●	●	●	●	●	●
Ⓓ Electrical connections							
Blank	DC connector relay board			●	●		
Ⓔ Reduced wiring (lamp and surge suppressor provided as standard)							
Refer to the next page for reduced wiring.							
Ⓕ Terminal/connector pin array							
Blank	Standard wiring *3	●	●	●	●		
W	Double wiring *3	●	●	●	●		
Ⓖ Option							
Blank	No option	●	●	●	●	●	●
M	Non-locking manual override *4	●	●	●	●	●	●
M7	Manual override with OFF function *4	●	●	●	●	●	●
H	With check valve *5	●	●	●	●	●	●
K	External pilot	●	●				
A	Ozone/coolant proof product	●	●	●	●	●	●
F	A/B port filter built in *6	●	●	●	●	●	●
Y**	I/O block *7 (In **, enter the number of the desired I/O block combination from Table 1 on the next page [I/O block combination table].)	●	●				
Z1	Air supply spacer *2	●	●				
Z3	Exhaust spacer *2	●	●				
Z8	Individual air supply compatible spacer with in-stop valve spacer *2/*8/*9	●	●				
Ⓗ Mount							
Blank	Direct mount	●	●				
D	DIN rail mount	●	●				
Ⓘ Station No.							
2 to 16	2 stations to 16 stations (Differs depending on the reduced wiring specifications. Refer to the individual specifications (page 884).)	●	●				
Ⓙ Voltage							
3	24 VDC *10	●	●	●	●	●	●

is not available.

⚠ Precautions for model selection

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

*1 : Specify the P/R port bore size in the supply and exhaust block section.

*2 : Specify the spacer mounting position and quantity in manifold specifications sheet.
Stacking of spacers is not possible.
Combination with the masking plate is not supported.
Refer to pages 948 to 949 for details.

*3 : Blank.....The wiring will be based on the type of valve used.
W.....All wired as double solenoid regardless of the type of valve used.
It is not necessary to select W if no single solenoid is used.

*4 : Non-locking manual override (M) and manual override with OFF function (M7) cannot be selected together.

*5 : Check valve (H) is not available for 3-position all ports closed and 3-position PAB connection.
For the exhaust check valve, refer to page 997.

*6 : A filter is built into P-port.

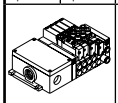
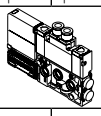
*7 : Select the I/O type (sink/source) of I/O block and the power supply (shared with slave unit/external) in the manifold specifications sheet (page 991).

*8 : Not available when the fitting for port A/B is elbow.

*9 : Not compatible with combination with external pilot (K).

*10: Serial transmission is not available with 100 VAC and 12 VDC.

[Reduced wiring list]

Ⓐ Model No.							
Manifold		Discrete valve block with solenoid valve		Discrete solenoid valve			
3-port valve	5-port valve	3-port valve	5-port valve	3-port valve	5-port valve		
							
MW3GA2	MW4GA2	NW3GA2	NW4GA2	W3GA2	W4GA2		

Ⓔ Reduced wiring (lamp and surge suppressor provided as standard)								
T7EC1	Thin EtherCAT	16 point output (NPN valve output)	●	●				
T7ECP1		16 point output (PNP valve output)	●	●				
T7EC2		32 point output (NPN valve output)	●	●				
T7ECP2		32 point output (PNP valve output)	●	●				
T7ECB7		16/16 points I/O (NPN valve output)	●	●				
T7ECPB7		16/16 points I/O (PNP valve output)	●	●				
T8G1	CC-Link	16 point output	●	●				
T8G2		32 point output	●	●				
T8G7		16 point input/16 point output	●	●				
T8C1	CompoBus/S	16 point output	●	●				
T8C6		8 point input/8 point output	●	●				
T8D1	DeviceNet	16 point output	●	●				
T8D2		32 point output	●	●				
T8D7		16 point input/16 point output	●	●				
T8MA	AS-i	4 point input/4 point output	●	●				
T8M6		8 point input/8 point output	●	●				

Table 1 [I/O block combination table]

T7

Code	Layout of I/O blocks and station No.						Wiring block side
Y10						IN	
Y20					IN	IN	
Y30				IN	IN	IN	
Y40			IN	IN	IN	IN	
Y11					OUT	IN	
Y21				OUT	IN	IN	
Y31			OUT	IN	IN	IN	
Y41		OUT	IN	IN	IN	IN	
Y12				OUT	OUT	IN	
Y22			OUT	OUT	IN	IN	
Y32		OUT	OUT	IN	IN	IN	
Y42	OUT	OUT	IN	IN	IN	IN	

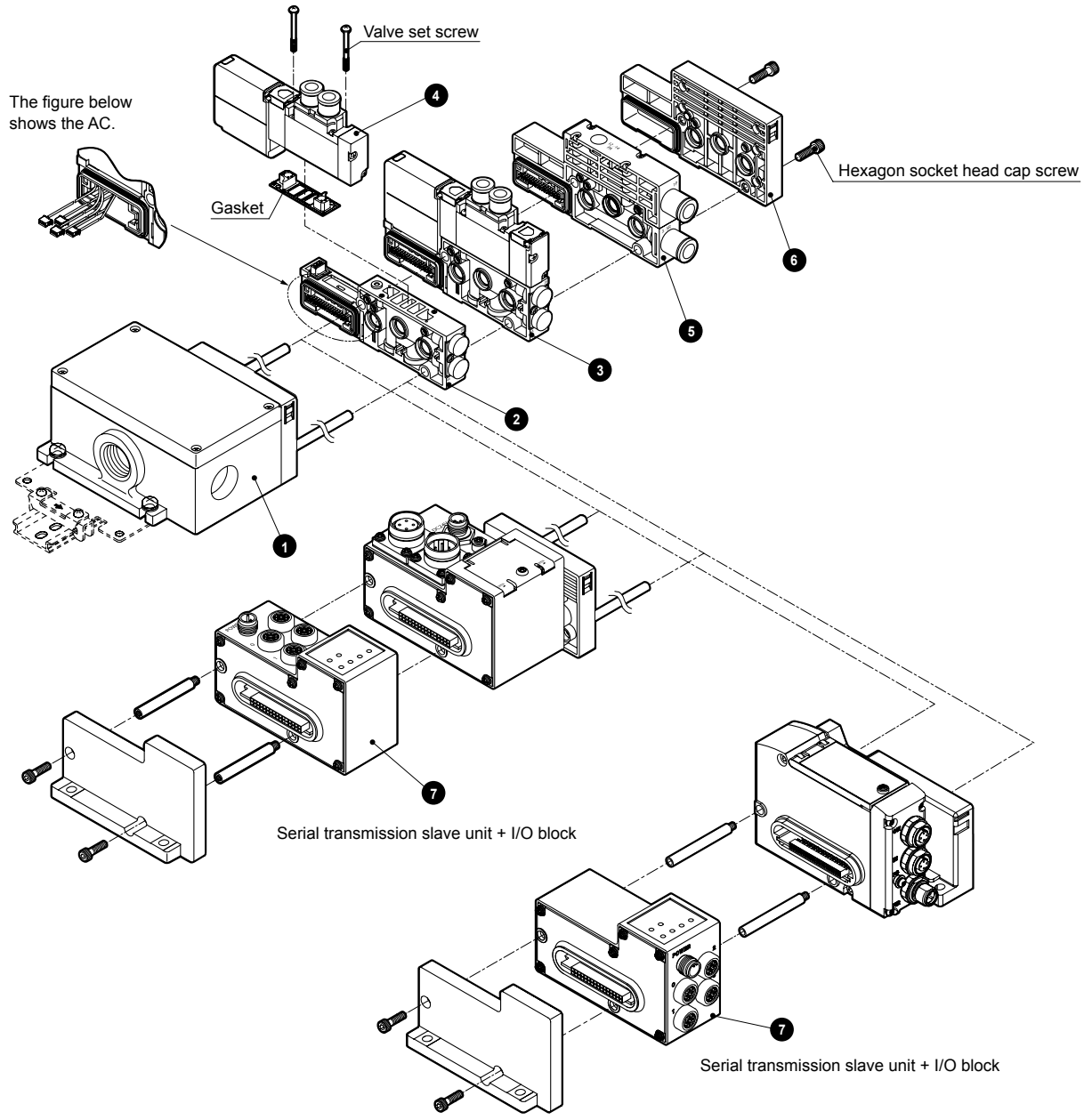
*1 : How to read the table
Example) Y11 is a combination of one input block (4 points) and one output block (4 points).

2: For details, refer to “Input/output point numbers corresponding to wiring method T8 I/O No.” on page 972.

T8

Code	Layout of I/O blocks and station No.						Wiring block side
Y10						IN	
Y20					IN	IN	
Y30				IN	IN	IN	
Y40			IN	IN	IN	IN	
Y01						OUT	
Y02					OUT	OUT	
Y03				OUT	OUT	OUT	
Y04			OUT	OUT	OUT	OUT	
Y11					OUT	IN	
Y21				OUT	IN	IN	
Y31			OUT	IN	IN	IN	
Y41		OUT	IN	IN	IN	IN	
Y12				OUT	OUT	IN	
Y22			OUT	OUT	IN	IN	
Y32		OUT	OUT	IN	IN	IN	
Y42	OUT	OUT	IN	IN	IN	IN	

Manifold components explanation and parts list



List of main components (refer to pages 940 to 955 for details)

No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
1	Wiring block	NW4G2-T10	5	Supply and exhaust block	NW4G2-Q-10
2	Discrete valve block	NW4GA2-V1	6	End block R	NW4G2-ER
3	Discrete valve block with solenoid valve	NW4GA220-C8-H-3	7	I/O block	NW4GA2-IN-N-B
4	Discrete solenoid valve for manifold	W4GA219-C8-H-3			

Weight (for DC)

NW4GA2

(g)

Block		Weight	Block		Weight
Valve block with solenoid valve	NW3GA210-*-*-*	181	Valve block with masking plate	NW4GA2-MP$^{S}_{D}$	102
	NW3GA2110-*-*-*	181	Wiring block (serial transmission slave unit)	NW4GA2-T8*	430
	NW4GA210-*-*-*	186	I/O block (serial transmission slave unit)	NW4GA2-IN/OUT-N/P-K/B	220
	NW4GA220-*-*-*	202	Wiring block (serial transmission slave unit)	NW4G2-T7*	280
	NW4GA2$^{3}_{5}$0-*-*-*	209	I/O block (serial transmission slave unit)	NW4GB2-IN/OUT-N/P-K/B (Note	220

Note) When NW4GA2-T8* is selected for wiring block, I/O block is upward connection (NW4GA2-).
When NW4G2-T7* is selected for wiring block, I/O block is lateral connection (NW4GB2-).

COMMON

(g)

Block		Weight
Supply and exhaust block	NW4G2-Q-*	137
	NW4G2-QK-*	140
	NW4G2-QZ-*	137
	NW4G2-QKZ-*	143
End block	NW4G2-ER	91
	NW4G2-EXR	96

Block		Weight
Wiring block	NW4G2-T10	423
	NW4G2-T20	490
	NW4G2-T30	370
	NW4G2-T5*	367
Air supply spacer	W4G2-P(K)-*	60
Exhaust spacer	W4G2-R-*-*	60
Spacer pilot check valve	W4G2-PC-M	183
Individual air supply compatible spacer with in-stop valve spacer	W4G2-PIS-*	115

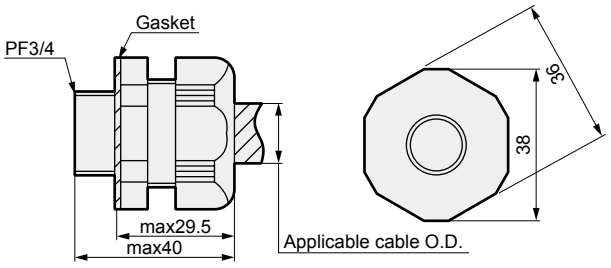
Parts list

Applicable	Part name	Model No.
Valve	Cartridge fitting φ4 straight	4G2-JOINT-C4
	Cartridge fitting φ6 straight	4G2-JOINT-C6
	Cartridge fitting φ8 straight	4G2-JOINT-C8
	Plug cartridge	4G2-JOINT-CPG
Supply and exhaust block P, R port	Cartridge fitting φ8 straight	N4G2-Q-JOINT-8
	Cartridge fitting φ10 straight	N4G2-Q-JOINT-10
	Cartridge fitting φ8 (short) elbow	N4G2-Q-JOINT-8L
	Cartridge fitting φ8 long elbow	N4G2-Q-JOINT-8LL
	Cartridge fitting φ10 (short) elbow	N4G2-Q-JOINT-10L
	Cartridge fitting φ10 long elbow	N4G2-Q-JOINT-10LL
	Plug cartridge	N4G2-Q-JOINT-PG
Supply and exhaust block port PA	Cartridge fitting φ6 straight	N4G-QK-JOINT-6
	Cartridge fitting φ6 elbow	N4G-QK-JOINT-6L

Parts kit for T10 wiring block

● Cable clamp

Model No.	Applicable cable O.D.	Content
W4G-SCL-18A	φ14.5 to 16.5	Used to protect cables from dust and jetting water.
W4G-SCL-18B	φ16.5 to 18.5	



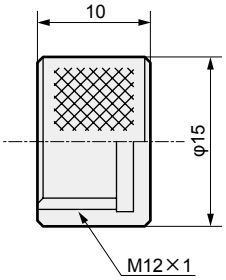
(Reference value)
Body tightening torque 4.0 to 4.5 N·m
Cable clamp tightening torque 3.0 to 3.5 N·m

Parts for I/O block

● Waterproof cap

Model No.	Content
W4G-XSZ-11	Provides jet-proof protection of the power supply connector when the power supply is shared with the serial transmission slave unit.

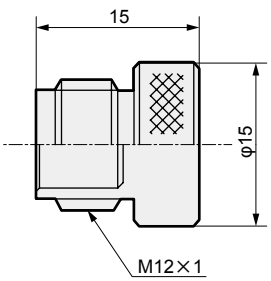
(reference value)
Tightening torque 0.4 to 0.5 N·m



● Waterproof plug

Model No.	Content
W4G-XSZ-12	Provides jet-proof protection of unused signal connectors.

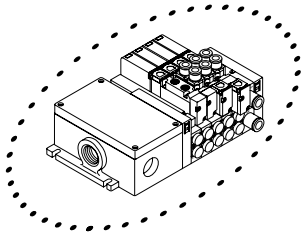
(reference value)
Tightening torque 0.4 to 0.5 N·m

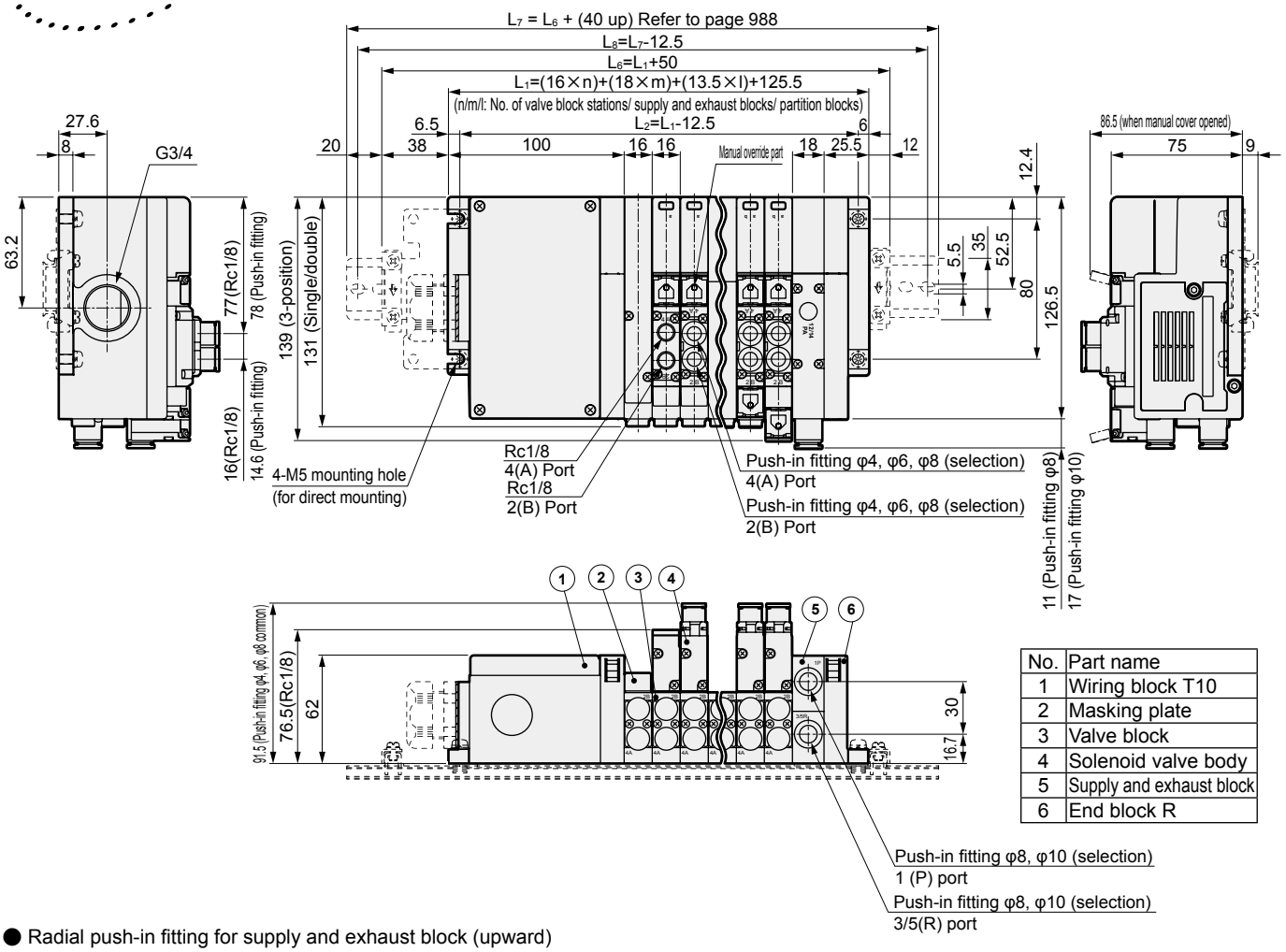


Dimensions CAD

MW4GA2

● Common terminal block (T10)

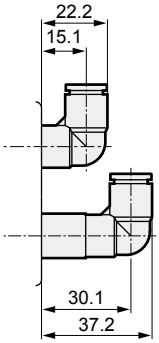




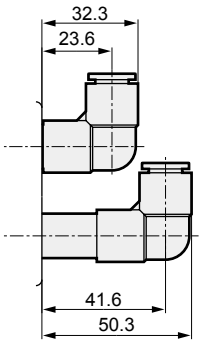
No.	Part name
1	Wiring block T10
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



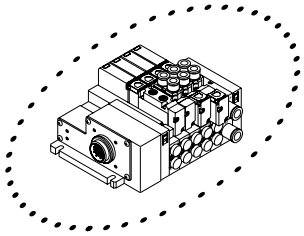
● φ10(CL10)

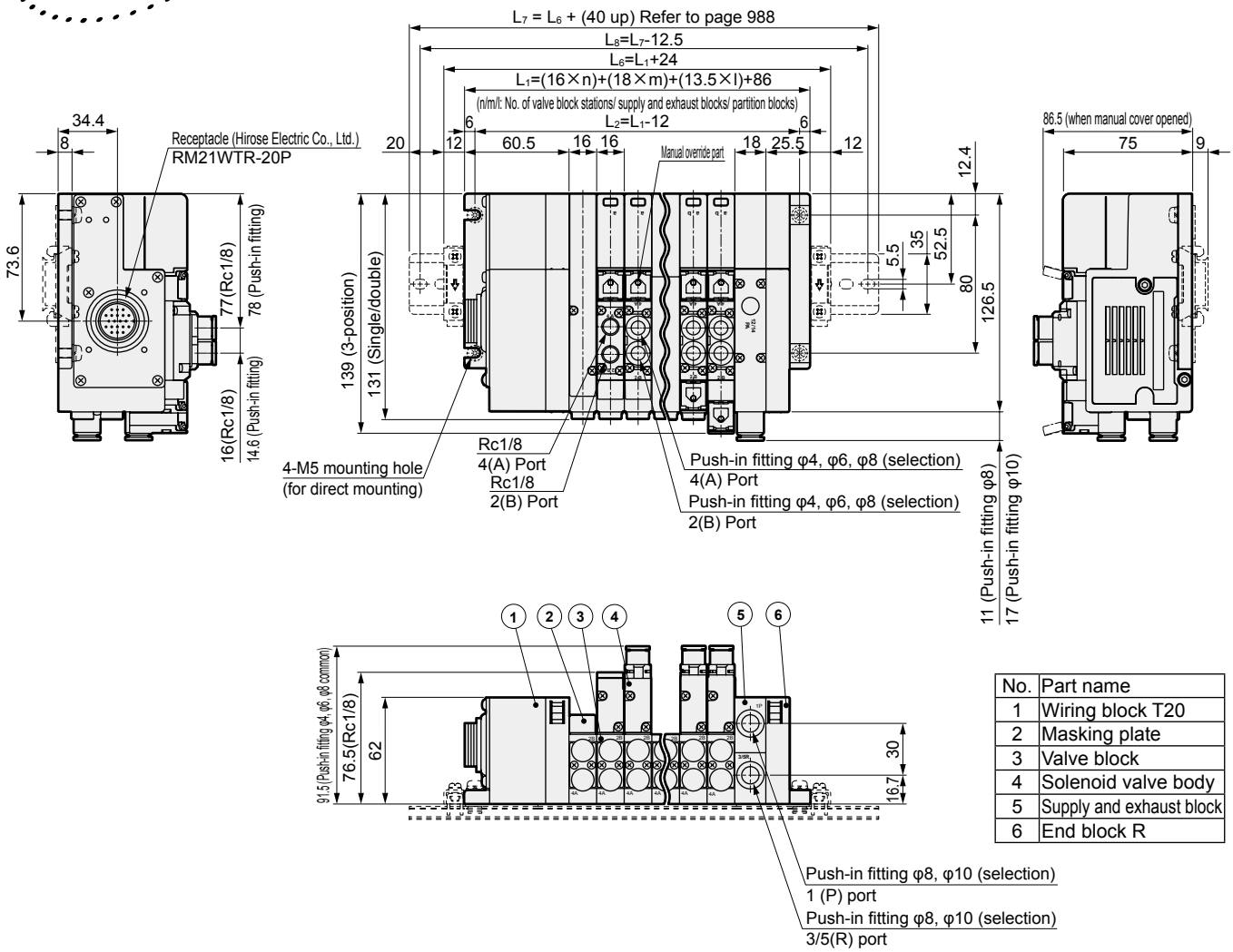


Dimensions CAD

MW4GA2

● Multi-connector (T20)

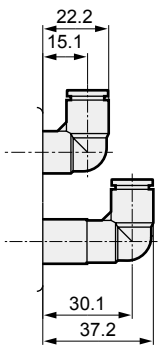




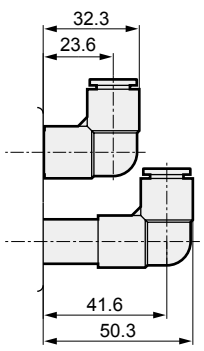
No.	Part name
1	Wiring block T20
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



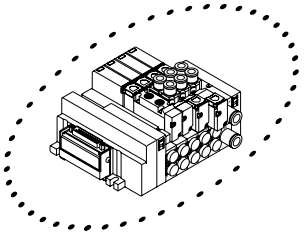
● φ10(CL10)

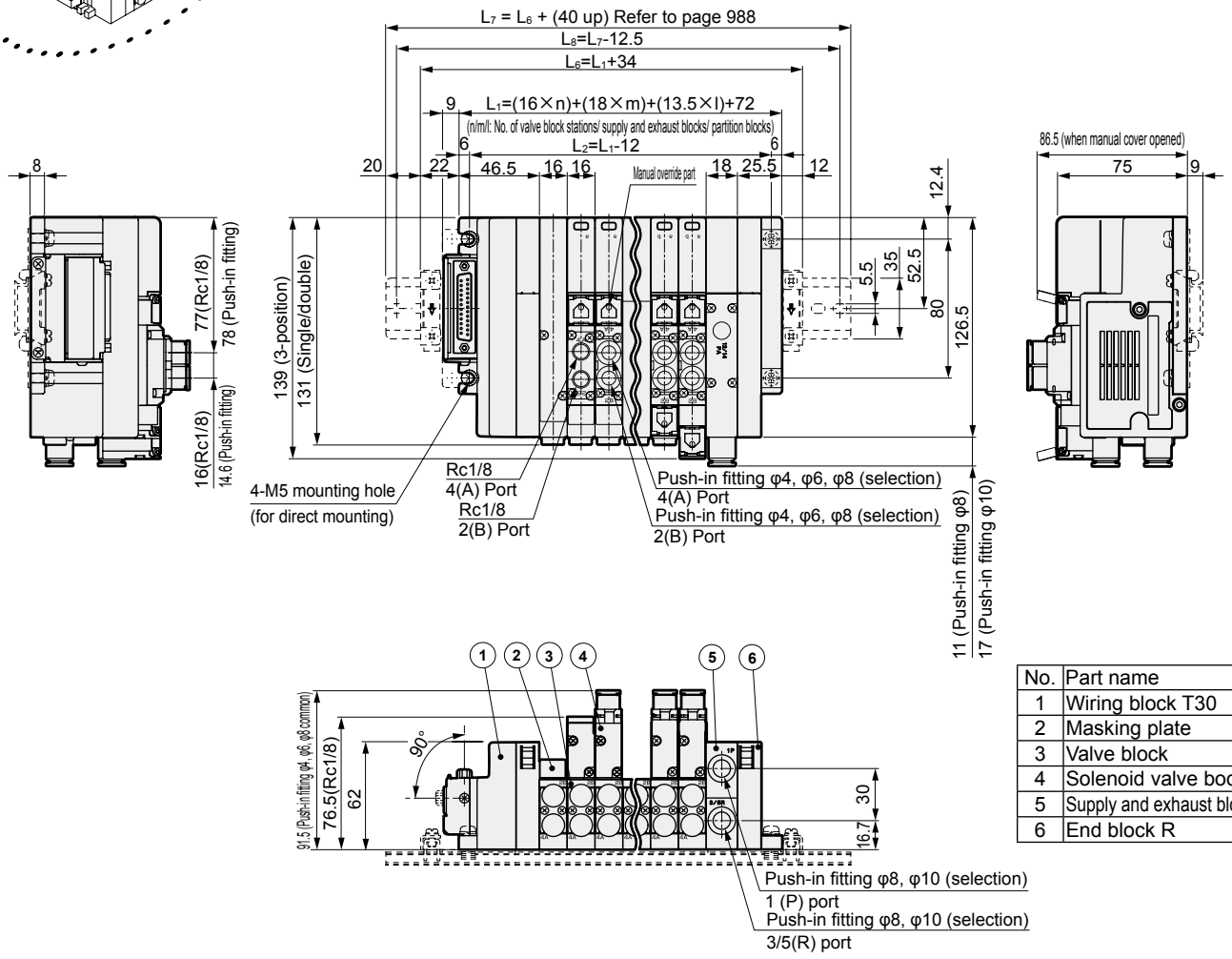


Dimensions CAD

MW4GA2

● D sub-connector (T30)

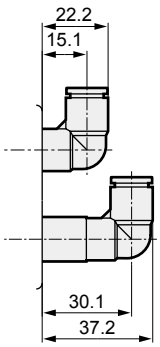




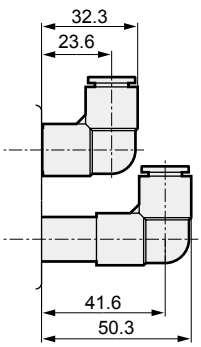
No.	Part name
1	Wiring block T30
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



● φ10(CL10)

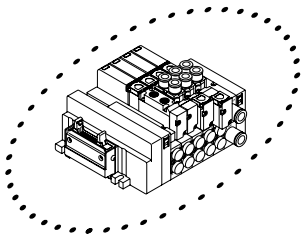


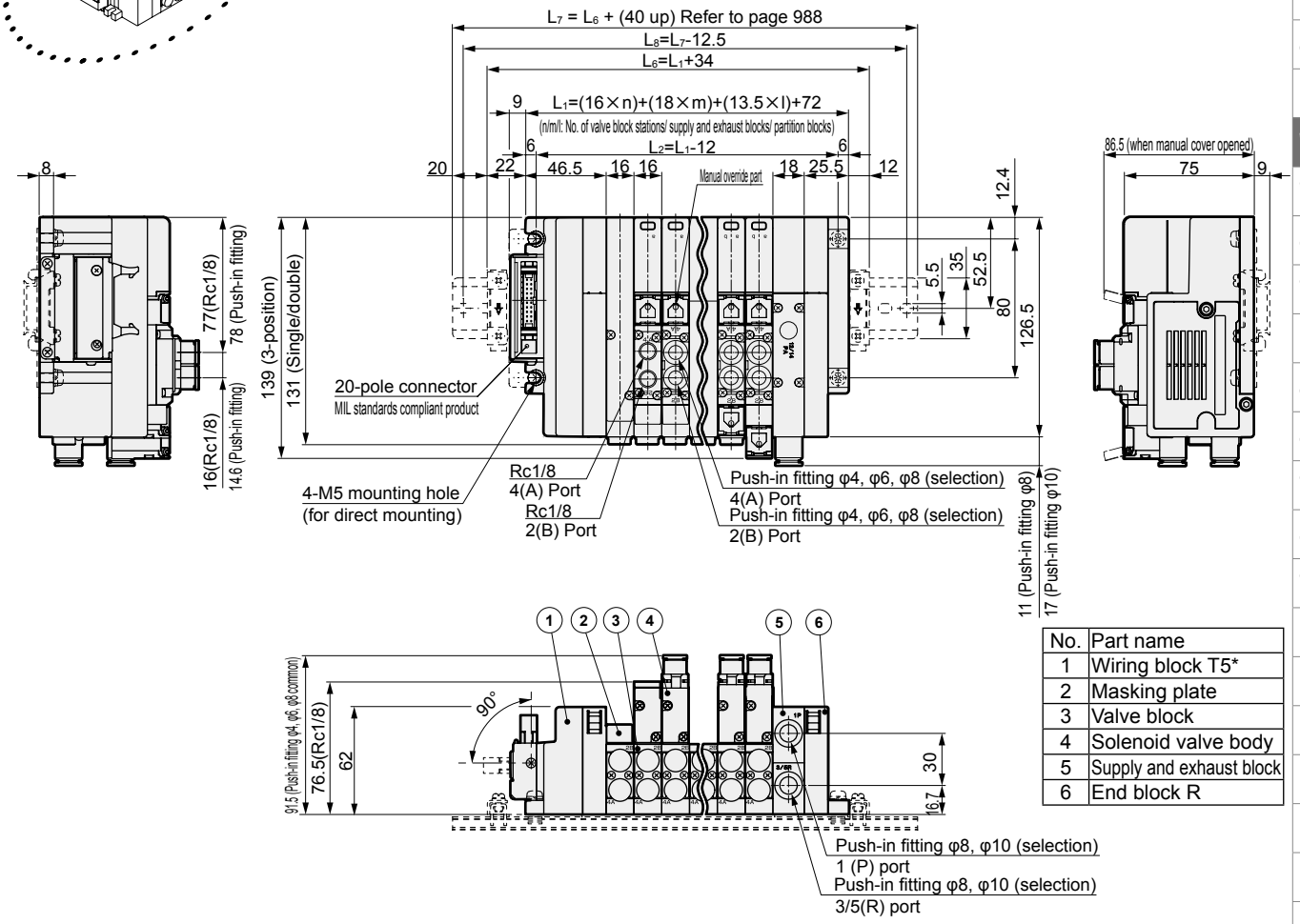
Dimensions CAD

MW4GA2

● Flat cable connector (T5*)

* The figure shows T51 (20-pin).
Flat cable connectors also have T53 (26-pin).
Dimensions are the same as T51.

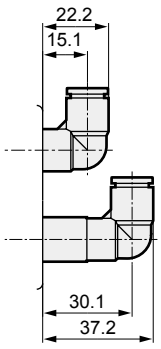




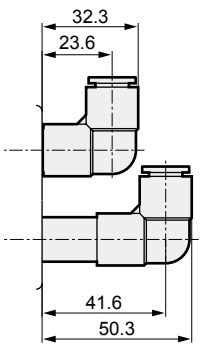
No.	Part name
1	Wiring block T5*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



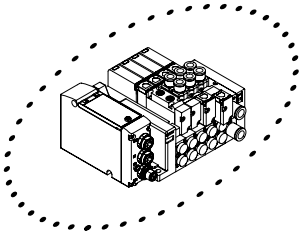
● φ10(CL10)

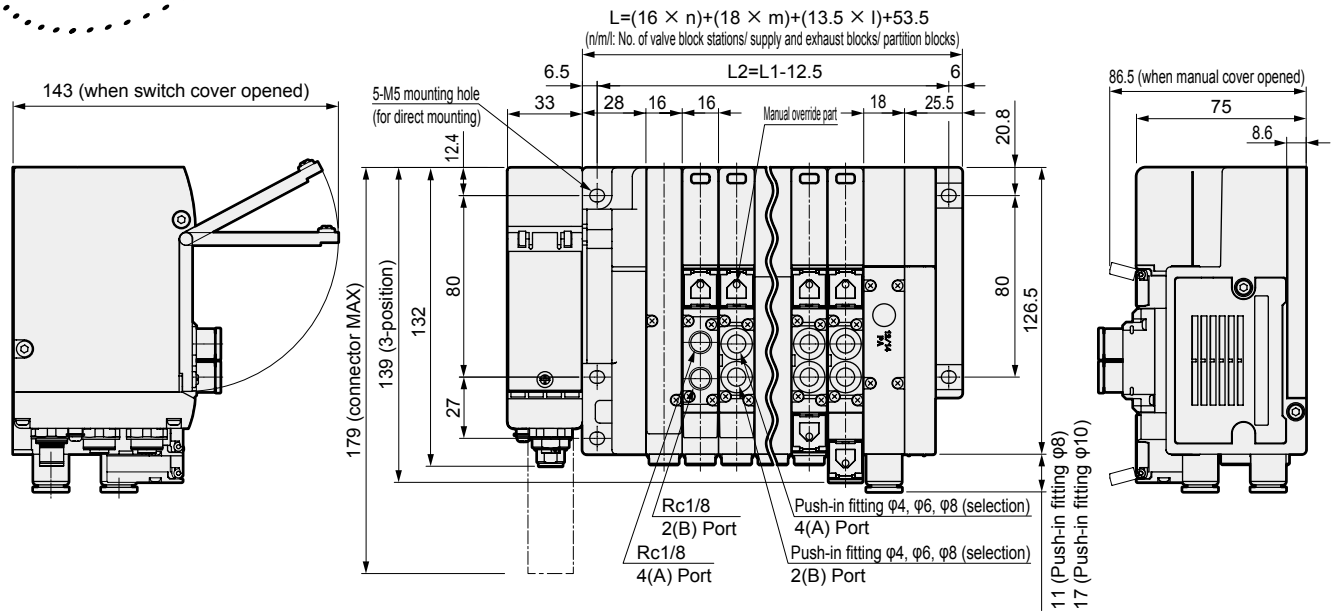


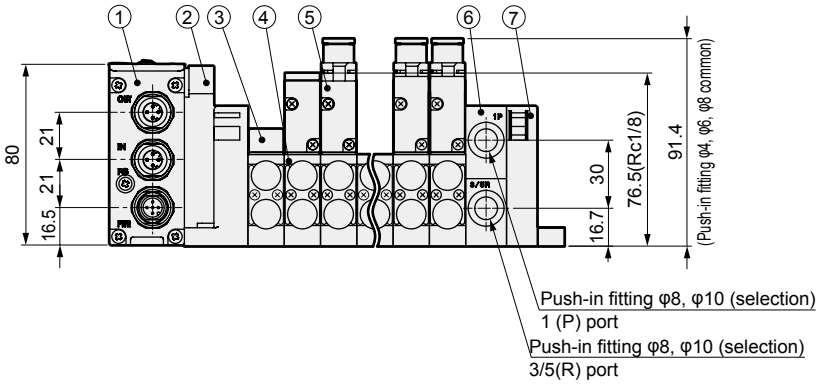
Dimensions CAD

MW4GA2

● Serial transmission EtherCAT (T7EC**)



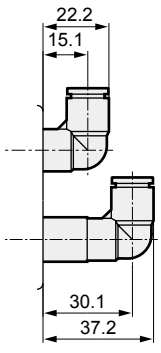




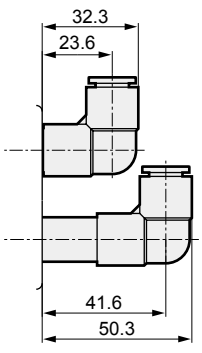
No.	Part name
1	Serial transmission block
2	Wiring block
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



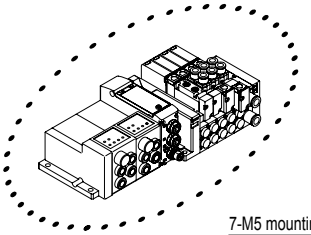
● φ10(CL10)

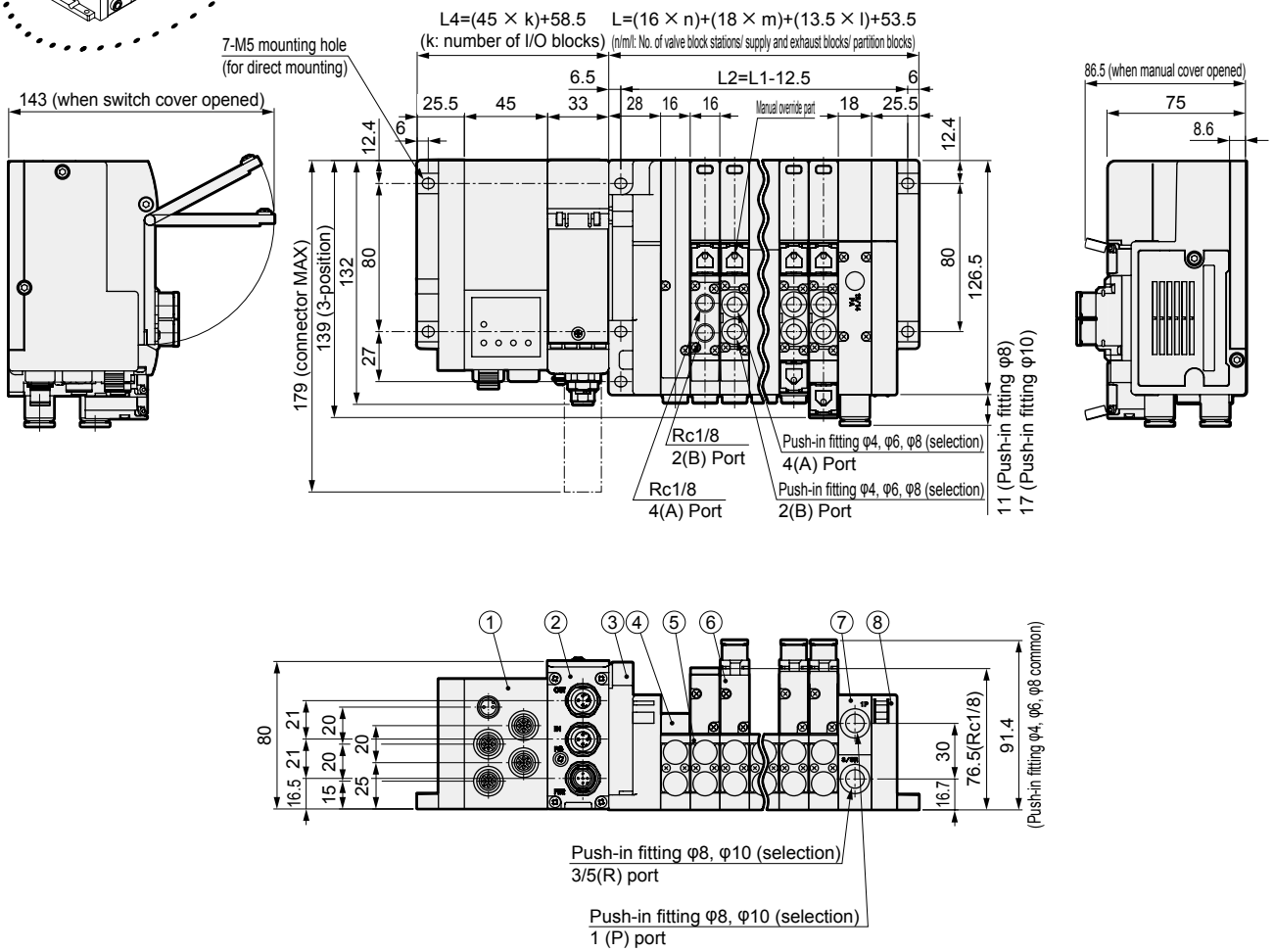


Dimensions CAD

MW4GA2

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

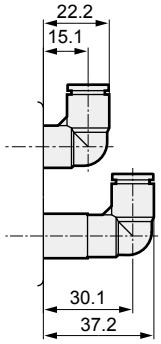




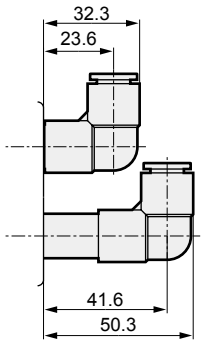
No.	Part name
1	I/O block
2	Serial transmission block
3	Wiring block
4	Masking plate
5	Valve block
6	Solenoid valve body
7	Supply and exhaust block
8	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



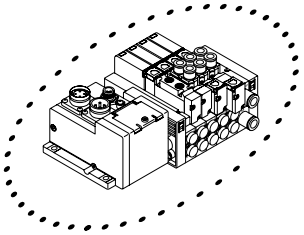
● φ10(CL10)

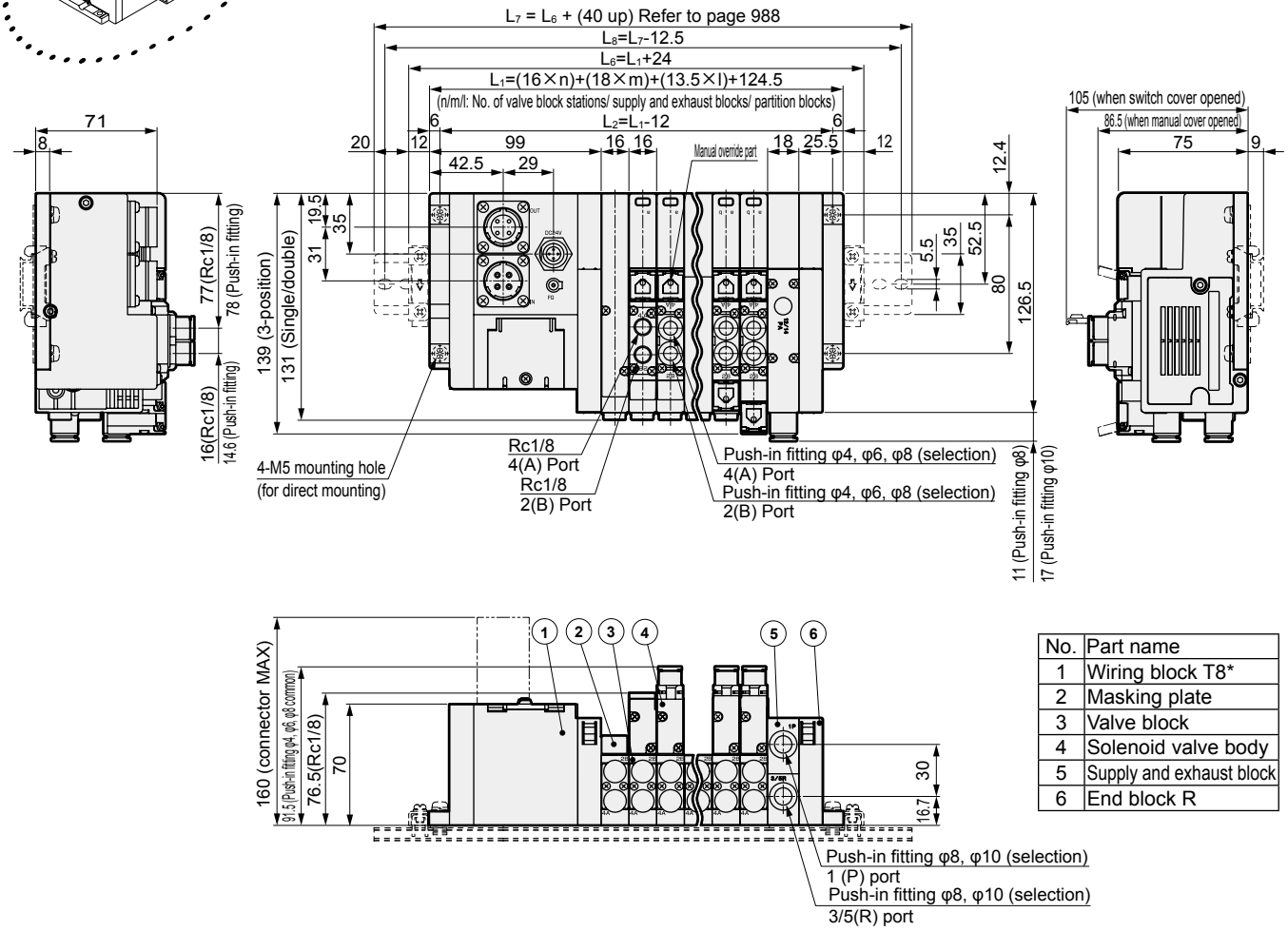


Dimensions CAD

MW4GA2

● Serial transmission CC-Link (T8G*)

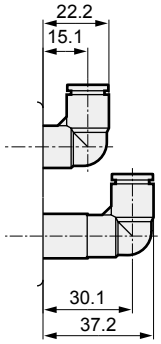




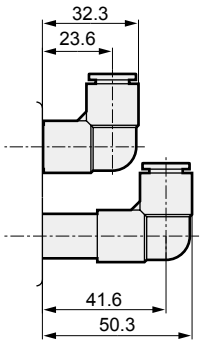
No.	Part name
1	Wiring block T8*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



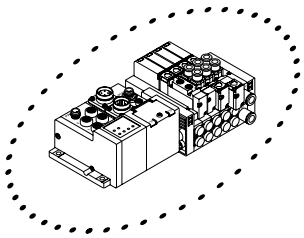
● φ10(CL10)

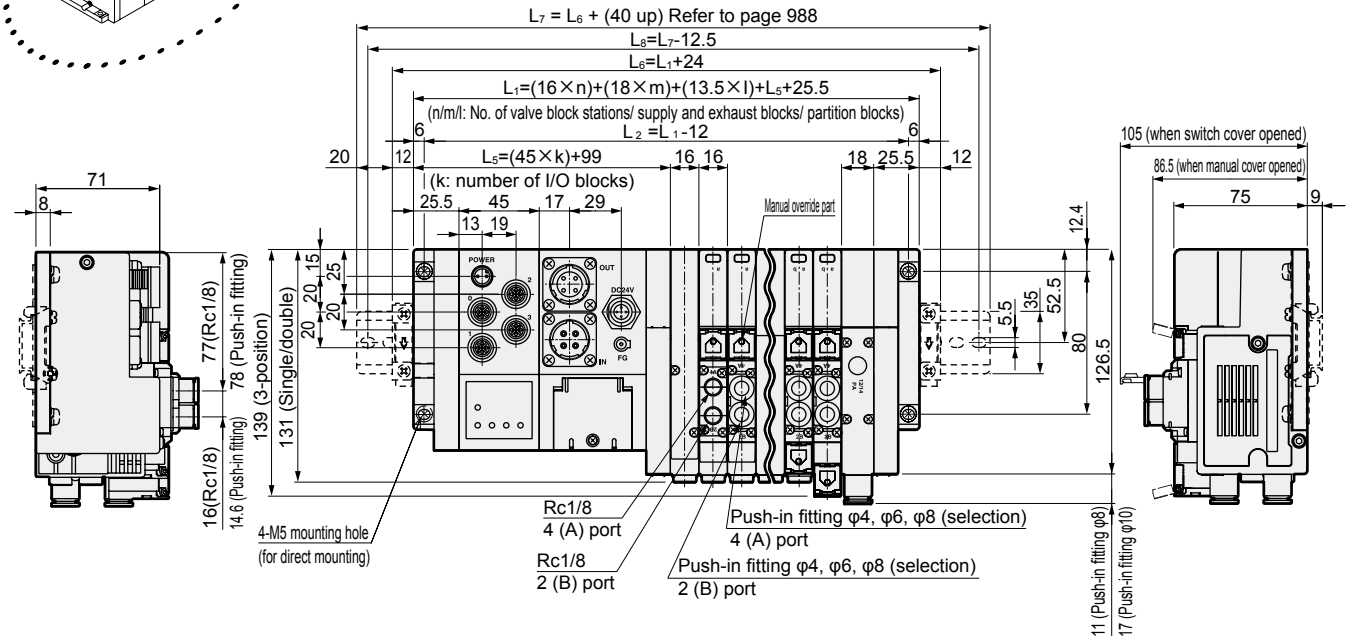


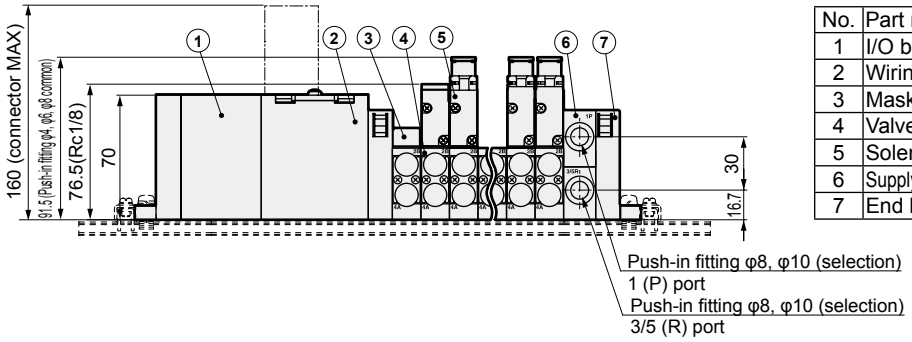
Dimensions CAD

MW4GA2

● Serial transmission CC-Link (T8G*) + I/O block



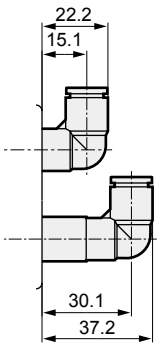




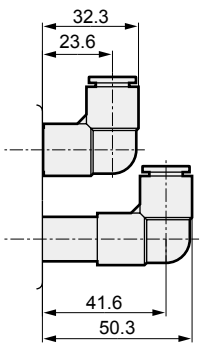
No.	Part name
1	I/O block
2	Wiring block T8*
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



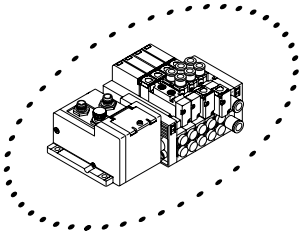
● φ10(CL10)

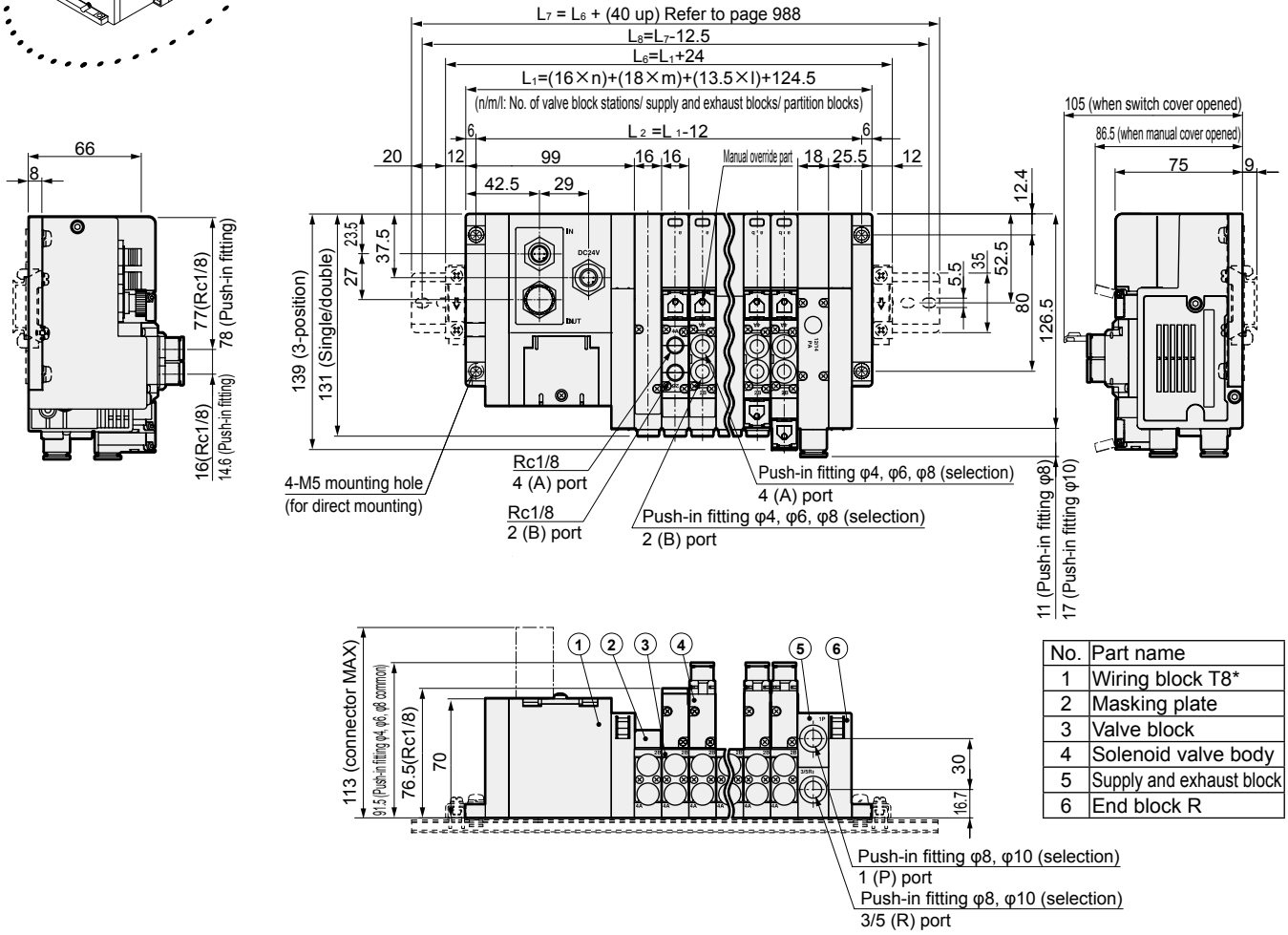


Dimensions CAD

MW4GA2

● Serial transmission DeviceNet (T8D*)

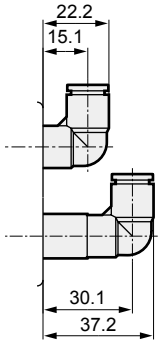




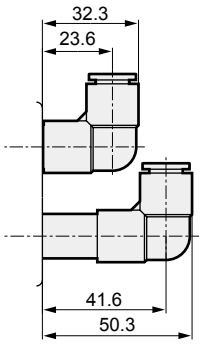
No.	Part name
1	Wiring block T8*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



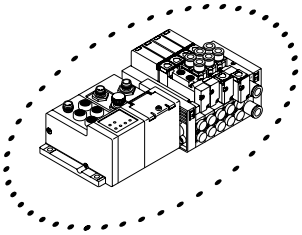
● φ10(CL10)

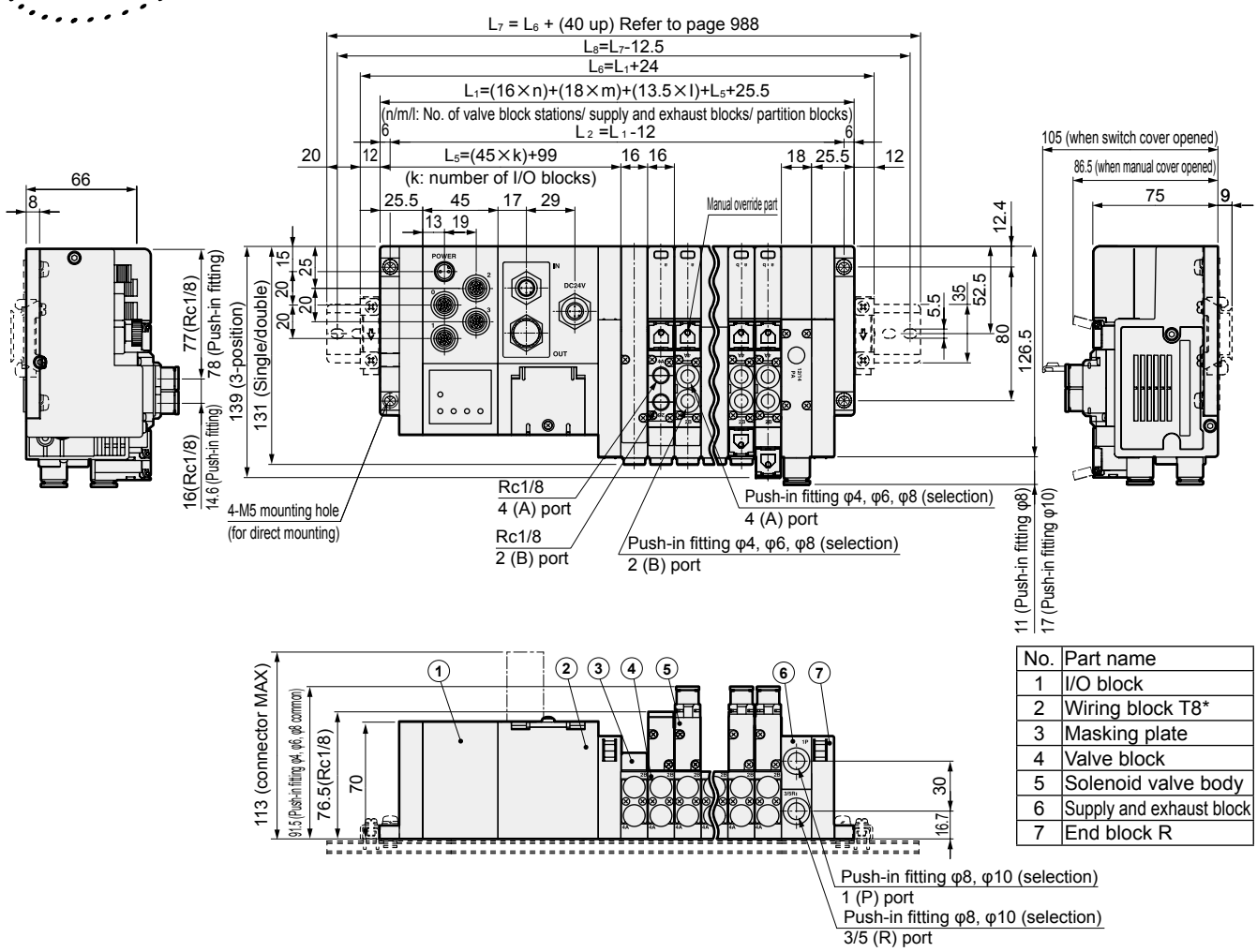


Dimensions CAD

MW4GA2

● Serial transmission slave unit DeviceNet (T8D*) + I/O block

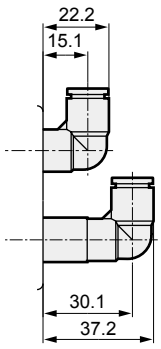




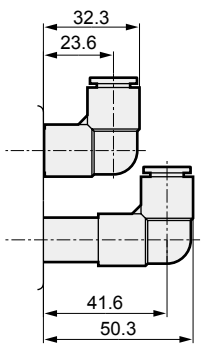
No.	Part name
1	I/O block
2	Wiring block T8*
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



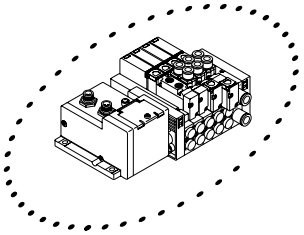
● φ10(CL10)

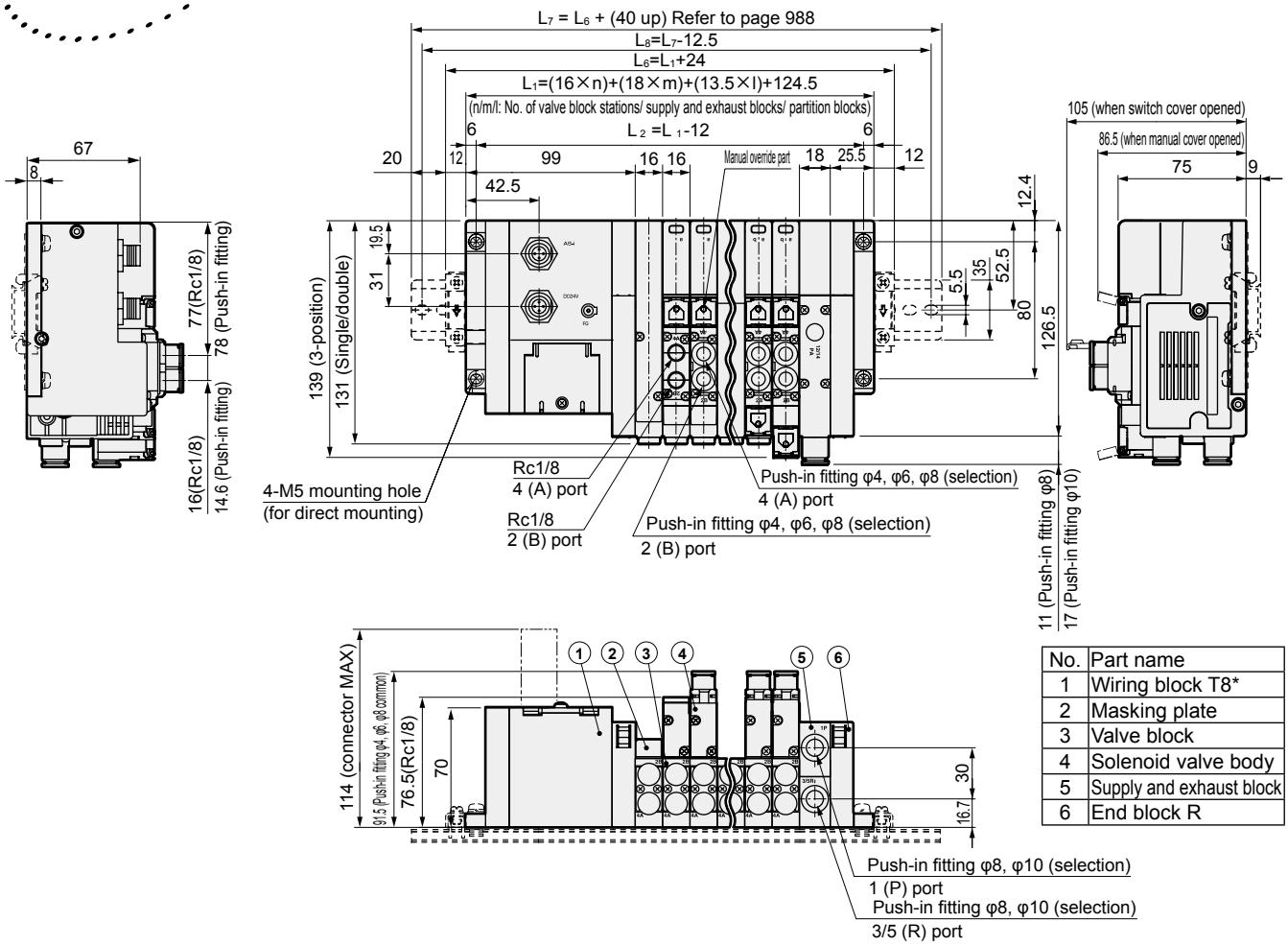


Dimensions CAD

MW4GA2

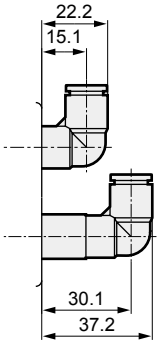
- Serial transmission AS-i (T8M*)
- Serial transmission CompoBus/S (T8C*)



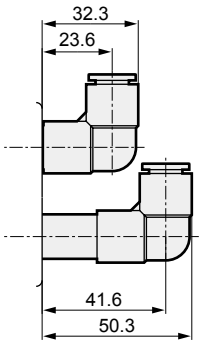


No.	Part name
1	Wiring block T8*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

- Radial push-in fitting for supply and exhaust block (upward)
- φ8(CL8)



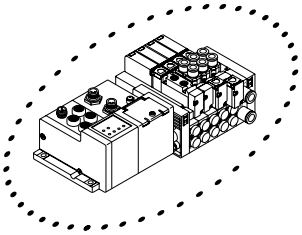
- φ10(CL10)

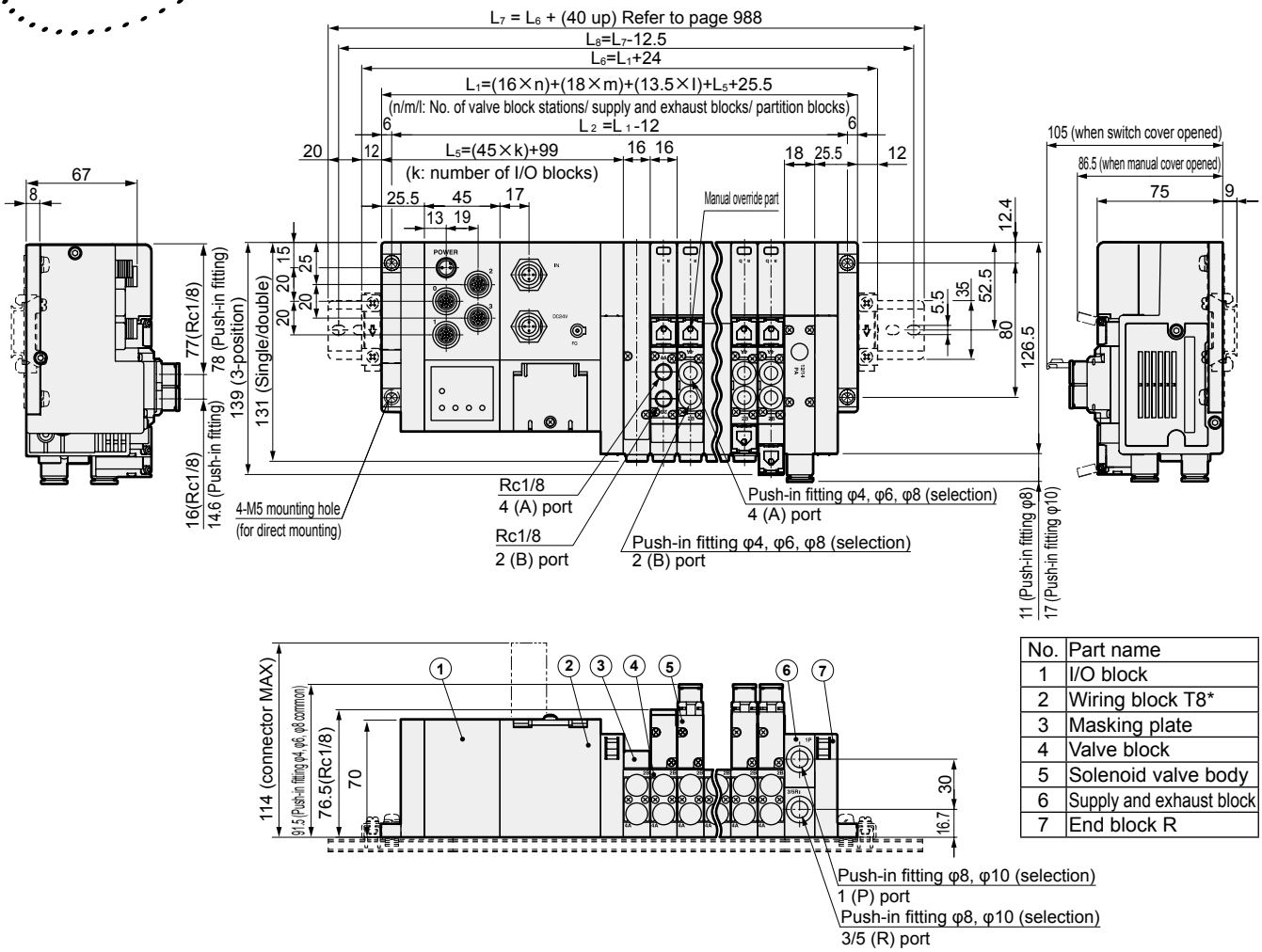


Dimensions CAD

MW4GA2

● Serial transmission AS-i (T8M*) + I/O block
● Serial transmission CompoBus/S (T8C*) + I/O block

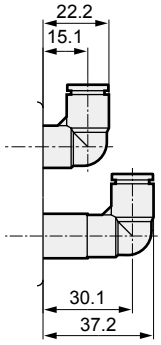




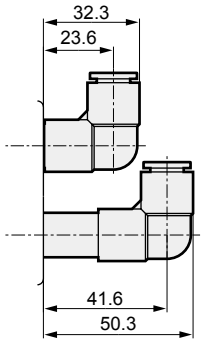
No.	Part name
1	I/O block
2	Wiring block T8*
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

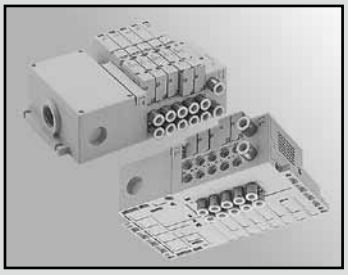
● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



● φ10(CL10)





Reduced wiring manifold
Base side piping/base bottom piping

MW4G$^{B}_{Z}$2-T1/2/3/5/7/8 Series

● Cylinder bore size: φ20 to φ80

CE Refer to the Ending for details. RoHS CAD

Manifold common specifications

Descriptions	MW4GB2		MW4GZ2
Manifold	Block manifold		
Supply and exhaust method	Common supply/common exhaust (with check valve built-in)		
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (pilot exhaust check valve built-in)	
	External pilot	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	0.7 (≈100 psi, 7 bar)		
Min. working pressure MPa	0.2 (≈29 psi, 2 bar) *4		
Proof pressure MPa	1.05 (≈150 psi, 10.5 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/locking common (standard)		
Lubrication *1	Not required		
Degree of protection *2	Dust-proof/jet-proof (IP65) *3		
Vibration resistance m/s^2	49 or less		
Shock resistance 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 995 for details.
3: The degree of protection of D sub-connector (T30) and flat cable connector (T5) is dust proof. Avoid water drops or oil, etc., during use.
*4: The working pressure range is 0 to 0.7 MPa when the external pilot (option code: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.

Electrical specifications

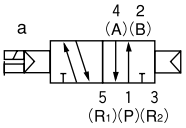
Descriptions		W4GB2
Rated voltage V	DC	12, 24
	AC	100
Voltage fluctuation range		±10%
Holding current A	24 VDC	0.025
	12 VDC	0.050
	100 VAC	0.012
Power consumption W *5	24 VDC	0.6
	12 VDC	0.6
Apparent power VA *6	100 VAC	1.2
Thermal class		B

*5: Surge suppressor and indicator are supplied as standard.
*6: Multi-connector, D sub-connector and flat cable connector are not available with 100 VAC.
Serial transmission is not available with 100 VAC and 12 VDC.

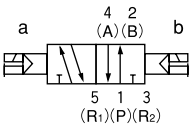
JIS symbol

● 5-port valve

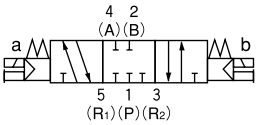
2-position single



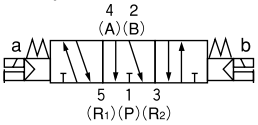
2-position double



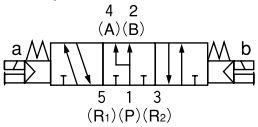
3-position all ports closed



3-position A/B/R connection



3-position P/A/B connection



Individual specifications

Descriptions		MW4GB2/MW4GZ2														
		T10	T20	T30	T51	T53	T7EC □1	T7EC □2	T7EC □7	T8G1 T8D1	T8G2 T8D2	T8G7 T8D7	T8MA	T8M6	T8C1	T8C6
Max. station No.	Standard wiring	18	—	18	18	18	16	18	16	16	18	16	4	8	16	8
	Double wiring	9	8	12	9	12	8	16	8	8	16	8	2	4	8	4
Max. number of solenoids		18	16	24	18	24	16	32	16	16	32	16	4	8	16	8
Port size	A/B Port	Push-in fitting φ4, φ6, φ8, Rc1/8														
	P/R port	Push-in fitting φ8, φ10														

For weight, refer to page 914.

Descriptions			MW4GB2/MW4GZ2	
			ON	OFF
Response time ms	2-position	Single	22	24
		Double	26	—
	3-position		25	35

The response time is the value with supply pressure of 0.5 MPa at 20°C and without lubrication. It depends on the pressure and the lubricant quality.

Flow characteristics

Model No.	Solenoid position		P→A/B		A/B→R	
			C[dm^3/(s·bar)]	b	C[dm^3/(s·bar)]	b
MW4GB2 MW4GZ2	2-position		2.4	0.36	1.7	0.25
	3-position	All ports closed	2.1	0.37	2.2	0.22
		ABR connection	2.2	0.35	1.7	0.25
		PAB connection	2.3	0.32	2.3	0.24

*1: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 x C.
*2: Values of the 2-position and ABR connection are those with integrated check valve.

Ozone-proof specifications · Coolant proof specifications

Can be selected with "How to order" Item Ⓖ Option "A" on pages 910 and 912.

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**

Reduced wiring specifications

Descriptions	T10	T20	T30	T51	T53
Type	Common terminal block M3 thread	Multi-connector	D sub-connector	20P Flat cable connector without power supply terminal	26P Flat cable connector without power supply terminal
Connector	—	HIROSE ELECTRIC CO. LTD. RM21WTP-20S 20-pin	D sub-connector (female) 25-pin	MIL-C-83503 standard compliant pressure welding socket 20-pin	MIL-C-83503 standard compliant pressure welding socket 26-pin

Specifications of serial transmission slave units (Refer to page 976 for the PLC compatibility table)

Descriptions		Slave unit dedicated for valves (without I/O block)				Slave unit with I/O block	
		T7EC1	T7EC2	T7ECP1	T7ECP2	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 (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	0/32	0/16	0/32	16/16	
Operation display		Power supply/communication status/valve power supply					
Degree of protection		IP65					

Descriptions \ Network name		CC-Link(Ver1.10)			DeviceNet *1			AS-i(Ver2.0)	
Slave unit model No.		T8G1	T8G2	T8G7	T8D1	T8D2	T8D7	T8MA	T8M6
Communication speed		156K/625K/2.5M/5M/10Mbps			125K/250K/500Kbps			167Kbps	
Power supply voltage	Unit side	24 VDC ±10%			24 VDC ±10%			30 VDC ±2%	
	Valve side	24 VDC +10%, -5%			24 VDC +10%, -5%			24 VDC +10%, -5%	
	Communication side	—			11 to 25 VDC			—	
Current consumption	Unit side	60 mA or less	100 mA or less	75 mA or less *2	70 mA or less	90 mA or less	80 mA or less *2	60 mA or less *2	90 mA or less *2
	Valve side	15 mA or less (when all points are OFF)			15 mA or less (when all points are OFF)			15 mA or less (when all points are OFF)	
	Communication side	—			50 mA or less			—	
Valve output		NPN			NPN			NPN	
Input/output point count		0/16	0/32	16/16	0/16	0/32	16/16	4/4 *3	8/8 *4
Occupied number		1 station			2 bytes	4 bytes	4 bytes	1 station	2 station
Operation display		Power supply/communication status/valve power supply			Communication status/valve power supply			Communication status/valve power supply	
Others		—			For EDS file, contact CKD. *5			Profile: 7, F *6	

Descriptions \ Network name		CompoBus/S	
Slave unit model No.		T8C1	T8C6
Communication speed		93.75K/750Kbps	
Power supply voltage	Unit side	24 VDC ± 10% (communication power supply)	
	Valve side	24 VDC +10%, -5%	
	Communication side	—	
Current consumption	Unit side	50 mA or less *2 (communication power supply)	
	Valve side	15 mA or less (when all points are OFF)	
	Communication side	—	
Valve output		NPN	
Input/output point count		0/16	8/8
Occupied number		—	
Operation display		Power supply/comm. status/valve power supply	
Others		—	

*1: Compatible with DeviceNet compliant networks (DLNK, etc.) as well.
*2: If the feed power supply of the input blocks also serves as the unit power supply, use the formula below for calculation.
(unit current consumption) = * + (35 mA x number of input blocks) + (total internal current consumption of connected sensors)
*.....T8G7:60 mA, T8D7:80 mA, T8MA:60 mA, T8M6:90 mA, T8C6:50 mA
Note that sensors should be selected so that the unit current consumption is 600 mA or less for T8D7 and T8D7 and 250 mA or less for T8MA, T8M6 and T8C6.
*3: Outputs of the slave unit with 4 inputs/4 outputs (T8MA) are all dedicated for valves.
*4: The slave unit with 8 inputs/8 outputs (T8M6) requires two addresses. Therefore, the automatic address setting cannot be used.
*5: EDS file: A text file of parameters for communication with various companies' master units
*6: Profile: Definition of meanings of I/O data and parameters of the slave unit for communication with the master unit. Defined in the AS-i specifications.

I/O block specifications

● Input block

Model No. / Descriptions	NW4GB2-IN-N-K	NW4GB2-IN-N-B	NW4GB2-IN-P-K	NW4GB2-IN-P-B
Number of inputs	4 points			
Rated input voltage	24 VDC			
Rated input current	7 mA			
ON voltage	15 VDC or more (between input terminals and V)		15 VDC or more (between input terminals and G)	
OFF voltage/OFF current	5 VDC or less (between input terminal and V)/1.5 mA or less		5 VDC or less (between input terminal and G)/1.5 mA or less	
Input	Sink		Source	
Supply power	Common with unit power supply	Externally supplied power	Common with unit power supply	Externally supplied power
Operation display	Power supply/input status			

*1: Refer to page 948 for model No.

● Output block

Model No. / Descriptions	NW4GB2-OUT-N-B	NW4GB2-OUT-P-B
Output points	4 points	
Rated voltage	24 VDC	
Max. load current	1 A/1 point (3 A/common)	
Residual voltage	1.5 V or less	
Output	Sink	Source
Protection circuit	Overcurrent protection/reverse connection protection	
Fuse	Power supply for external load: 24 VDC and 5 A (can be replaced)	
Operation display	Power supply/output status	

*1: Refer to page 948 for model No.

MEMO

MW4G$^{B}_{Z}$2-T1/2/3/5 Series

Reduced wiring manifold; base side piping/base bottom piping

How to order

Common terminal block/multi-connector/D sub-connector/flat cable connector

● Manifold model No.

MW4GB2 1 0 - C8 – T10 W H D - 5 - 3

MW4GZ2 1 0 - C8 – T10 W H — 5 - 3

● Discrete valve block with solenoid valve

NW4GB2 1 0 - C8 - ○ W H — 3

NW4GZ2 1 0 - C8 - ○ W H — 3

● Discrete solenoid valve (common for NW4GB2/NW4GZ2 *1)

W4GB2 1 9 - 00 — H — 3

Ⓐ Model No.
Ⓑ Solenoid position
Ⓒ Port size *2 *3
Ⓓ Electrical connections *4
Ⓔ Reduced wiring connection
Ⓕ Terminal/connector pin array
Ⓖ Option *5
Ⓗ Mount
Ⓘ Station No.
Ⓙ Voltage

· For model No. of the cable with D sub-connector, refer to page 967.
· Refer to page 970 for the model No. of cables for flat cable connector.

For circuit diagrams (inside the solenoid valve), refer to page 868 for details.

⚠ Precautions for model selection

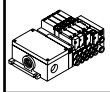
Be sure to fill in the "Manifold specifications sheet".

*1 : The W4GB2*9 discrete solenoid valve is used for the NW4GZ2 discrete valve block with solenoid valve.
*2 : Plugs of ports A and B (*NC/*NO) are available for the 2-position single only.
Specify the P/R port bore size in the supply and exhaust block section.
3 : CL radial push-in fitting (upward) is available for the single and double only. Long elbow is for A port and short elbow for B port. Ports A and B are the same size in the radial push-in fitting (upward) mix (CX). If CL* NC/NO is selected, the fitting is a short elbow.
*4 : If a change of specifications is expected in the AC, select a valve block with masking plate as a spare block.
*5 : Specify the spacer mounting position and quantity in manifold specifications sheet. Stacking of spacers is not possible.
Combination with the masking plate is not supported.
Refer to pages 948 to 949 for details.
*6 : Blank.....The wiring will be based on the type of valve used.
W.....All wired as double solenoid regardless of the type of valve used.
It is not necessary to select W if no single solenoid is used.
Double wiring will automatically be applied to multi-connector T20 and AC voltage type even if W is not specified, since they are only for double wiring.
*7 : Non-locking manual override (M) and manual override with OFF function (M7) cannot be selected together.
*8 : Check valve (H) is not available for 3-position all ports closed and 3-position PAB connection.
For the check valve, refer to page 997.
*9 : A filter is built into P-port.
*10 : Not available when the fitting for port A/B is elbow.
*11 : Not compatible with combination with external pilot (K).

Code	Content		Ⓐ Model No. Manifold MW4GB2	Manifold MW4GZ2	Discrete valve block with solenoid valve NW4GB2	Discrete valve block with solenoid valve NW4GZ2	Discrete solenoid valve W4GB2
Ⓑ Solenoid position							
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)		●	●			
Ⓒ Port size (A/B port)							
C4	φ4 push-in fitting		●	●	●	●	
C6	φ6 push-in fitting		●	●	●	●	
C8	φ8 push-in fitting		●	●	●	●	
CL6	φ6 radial push-in fitting (upward)		●		●		
CL8	φ8 radial push-in fitting (upward)		●		●		
CX	Push-in fitting mix		●	●			
Single, plug	A port	B port					
C4NC	φ4 push-in fitting	Plug	●	●	●	●	
C6NC	φ6 push-in fitting	Plug	●	●	●	●	
C8NC	φ8 push-in fitting	Plug	●	●	●	●	
C4NO	Plug	φ4 push-in fitting	●	●	●	●	
C6NO	Plug	φ6 push-in fitting	●	●	●	●	
C8NO	Plug	φ8 push-in fitting	●	●	●	●	
CL6NC	φ6 radial push-in fitting (upward)	Plug	●		●		
CL8NC	φ8 radial push-in fitting (upward)	Plug	●		●		
CL6NO	Plug	φ6 radial push-in fitting (upward)	●		●		
CL8NO	Plug	φ8 radial push-in fitting (upward)	●		●		
Ⓓ Electrical connections							
Blank	DC connector relay board				●	●	
2 to 8	Select the AC cable length on page 943.				●	●	
Ⓔ Reduced wiring (lamp and surge suppressor provided as standard)							
Refer to the next page for reduced wiring.							
Ⓕ Terminal/connector pin array							
Blank	Standard wiring *6		●	●	●	●	
W	Double wiring *6		●	●	●	●	
Ⓖ Option							
Blank	No option		●	●	●	●	●
M	Non-locking manual override *7		●	●	●	●	●
M7	Manual override with OFF function *7		●	●	●	●	●
H	With check valve *8		●	●	●	●	●
K	External pilot		●	●			
A	Ozone/coolant proof product		●	●	●	●	●
F	A/B port filter built in *9		●	●	●	●	
Z1	Air supply spacer *5		●	●			
Z3	Exhaust spacer *5		●	●			
Z6	Spacer pilot check valve *5/*10		●	●			
Z8	Individual air supply compatible spacer with in-stop valve spacer *5/*10		●	●			
Ⓗ Mount							
Blank	Direct mount		●	●			
D	DIN rail mount		●				
Ⓘ Station No.							
2 to 18	2 stations to 18 stations (Differs depending on the reduced wiring specifications. Refer to the individual specifications (page 906).)		●	●			
Ⓙ Voltage							
1	100 VAC (rectifier integrated)		●	●	●	●	●
3	24 VDC		●	●	●	●	●
4	12 VDC		●	●	●	●	●

is not available.

[Reduced wiring list]

	Ⓐ Model No.				
	Manifold		Discrete valve block with solenoid valve		Discrete solenoid valve
					
	MW4GB2	MW4GZ2	NW4GB2	NW4GZ2	W4GB2
Ⓔ Reduced wiring (lamp and surge suppressor provided as standard)					
T10 Common terminal block (M3 screw) Left-sided spec.	●	●			
T20 Multi-connector Left-sided spec. *12	●	●			
T30 D sub-connector Left-sided spec. *12	●	●			
T51 20-pin flat cable connector (without power supply terminal) Left-sided spec. *12	●	●			
T53 26-pin flat cable connector (without power supply terminal) Left-sided spec. *12	●	●			

12: Multi-connector (T20), D sub-connector (T30) and flat cable connector (T5) are not available with 100 VAC.

MW4GB2-T7/T8 Series

Reduced wiring manifold; base side piping/base bottom piping

How to order

Serial transmission

● Manifold model No.

MW4GB2 1 0- C8 – T8G1 W H D - 5 - 3

MW4GZ2 1 0- C8 – T8G1 W H — 5 - 3

● Discrete valve block with solenoid valve

NW4GB2 1 0- C8 - ○ W H — 3

NW4GZ2 1 0- C8 - ○ W H — 3

● Discrete solenoid valve (common for NW4GB2/NW4GZ2 *1)

W4GB2 1 9- 00 — H — 3

Ⓐ Model No.
Ⓑ Solenoid position
Ⓒ Port size *2 *3
Ⓓ Electrical connections
Ⓔ Reduced wiring connection
For circuit diagrams (inside the solenoid valve), refer to page 868.
Ⓕ Terminal/connector pin array
Ⓖ Option
Ⓗ Mount
Ⓘ Station No.
Ⓙ Voltage

Precautions for model selection

Be sure to fill in the “Manifold specifications sheet”.

*1 : The W4GB2*9 discrete solenoid valve is used for the NW4GZ2 discrete valve block with solenoid valve.
*2 : Plugs of ports A and B (*NC/*NO) are available for the 2-position single only. Specify the P/R port bore size in the supply and exhaust block section.
3 : CL radial push-in fitting (upward) is available for the single and double only. Long elbow is for A port and short elbow for B port. A and B ports are the same size in the radial push-in fitting (upward) mix (CX).
If CL* NC/NO is selected, the fitting is a short elbow.
*4 : Blank.....The wiring will be based on the type of valve used.
W.....All wired as double solenoid regardless of the type of valve used.
It is not necessary to select W if no single solenoid is used.
*5 : Non-locking manual override (M) and manual override with OFF function (M7) cannot be selected together.
*6 : Check valve (H) is not available for 3-position all ports closed and 3-position PAB connection. For the check valve, refer to page 997.
*7 : A filter is built into P-port.
*8 : Select the I/O type (sink/source) of I/O block and the power supply (shared with slave unit/external) in the manifold specifications sheet on pages 992 to 993.
*9 : Specify the spacer mounting position and quantity in manifold specifications sheet.
Stacking of spacers is not possible.
Combination with the masking plate is not supported.
Refer to pages 948 to 949 for details.
*10 : Not available when the fitting for port A/B is elbow.
*11 : Not compatible with combination with external pilot (K).
*12 : Serial transmission is not available with 100 VAC and 12 VDC.

Code	Content	Ⓐ Model No. Manifold MW4GB2	Manifold MW4GZ2	Discrete valve block with solenoid valve NW4GB2	Discrete valve block with solenoid valve NW4GZ2	Discrete solenoid valve W4GB2
Ⓑ Solenoid position						
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)	●	●			
Ⓒ Port size (A/B port)						
C4	φ4 push-in fitting	●	●	●	●	
C6	φ6 push-in fitting	●	●	●	●	
C8	φ8 push-in fitting	●	●	●	●	
CL6	φ6 radial push-in fitting (upward)	●		●		
CL8	φ8 radial push-in fitting (upward)	●		●		
CX	Push-in fitting mix	●	●			
Single, plug	A port / B port					
C4NC	φ4 push-in fitting / Plug	●	●	●	●	
C6NC	φ6 push-in fitting / Plug	●	●	●	●	
C8NC	φ8 push-in fitting / Plug	●	●	●	●	
C4NO	Plug / φ4 push-in fitting	●	●	●	●	
C6NO	Plug / φ6 push-in fitting	●	●	●	●	
C8NO	Plug / φ8 push-in fitting	●	●	●	●	
CL6NC	φ6 radial push-in fitting (upward) / Plug	●		●		
CL8NC	φ8 radial push-in fitting (upward) / Plug	●		●		
CL6NO	Plug / φ6 radial push-in fitting (upward)	●		●		
CL8NO	Plug / φ8 radial push-in fitting (upward)	●		●		
Ⓓ Electrical connections						
Blank	DC connector relay board			●	●	
Ⓔ Reduced wiring (lamp and surge suppressor provided as standard)						
Refer to the next page for reduced wiring.						
Ⓕ Terminal/connector pin array						
Blank	Standard wiring *4	●	●	●	●	
W	Double wiring *4	●	●	●	●	
Ⓖ Option						
Blank	No option	●	●	●	●	●
M	Non-locking manual override *5	●	●	●	●	●
M7	Manual override with OFF function *5	●	●	●	●	●
H	With check valve *6	●	●	●	●	●
K	External pilot	●	●			
A	Ozone/coolant proof product	●	●	●	●	●
F	A/B port filter built in *7	●	●	●	●	
Y**	I/O block *8 (In **, enter the number of the desired I/O block combination from Table 1 [I/O block combination table].)	●	●			
Z1	Air supply spacer *9	●	●			
Z3	Exhaust spacer *9	●	●			
Z6	Spacer pilot check valve *9/*10	●	●			
Z8	Individual air supply with in-stop valve spacer *9/*10/*11	●	●			
Ⓗ Mount						
Blank	Direct mount	●	●			
D	DIN rail mount	●				
Ⓘ Station No.						
2 to 16	2 stations to 16 stations (Differs depending on the reduced wiring specifications. Refer to the individual specifications (page 906).)	●	●			
Ⓙ Voltage						
3	24 VDC *12	●	●	●	●	●

is not available.

[Reduced wiring list]

Ⓔ Reduced wiring (lamp and surge suppressor provided as standard)			Ⓐ Model No. Manifold MW4GB2	Manifold MW4GZ2	Discrete valve block with solenoid valve NW4GB2	Discrete valve block with solenoid valve NW4GZ2	Discrete solenoid valve W4GB2
T7EC1	Thin EtherCAT	16 point output (NPN valve output)	●	●			
T7ECP1		16 point output (PNP valve output)	●	●			
T7EC2		32 point output (NPN valve output)	●	●			
T7ECP2		32 point output (PNP valve output)	●	●			
T7ECB7		16/16 points I/O (NPN valve output)	●	●			
T7ECPB7		16/16 points I/O (PNP valve output)	●	●			
T8G1	CC-Link	16 point output	●	●			
T8G2		32 point output	●	●			
T8G7		16 point input/16 point output	●	●			
T8C1	CompoBus/S	16 point output	●	●			
T8C6		8 point input/8 point output	●	●			
T8D1	DeviceNet	16 point output	●	●			
T8D2		32 point output	●	●			
T8D7		16 point input/16 point output	●	●			
T8MA	AS-i	4 point input/4 point output	●	●			
T8M6		8 point input/8 point output	●	●			

Table 1 [I/O block combination table]

T7

Code	Layout of I/O blocks and station No.						
Y10						IN	Wiring block side
Y20					IN	IN	
Y30				IN	IN	IN	
Y40			IN	IN	IN	IN	
Y11					OUT	IN	
Y21				OUT	IN	IN	
Y31			OUT	IN	IN	IN	
Y41		OUT	IN	IN	IN	IN	
Y12				OUT	OUT	IN	
Y22			OUT	OUT	IN	IN	
Y32		OUT	OUT	IN	IN	IN	
Y42	OUT	OUT	IN	IN	IN	IN	

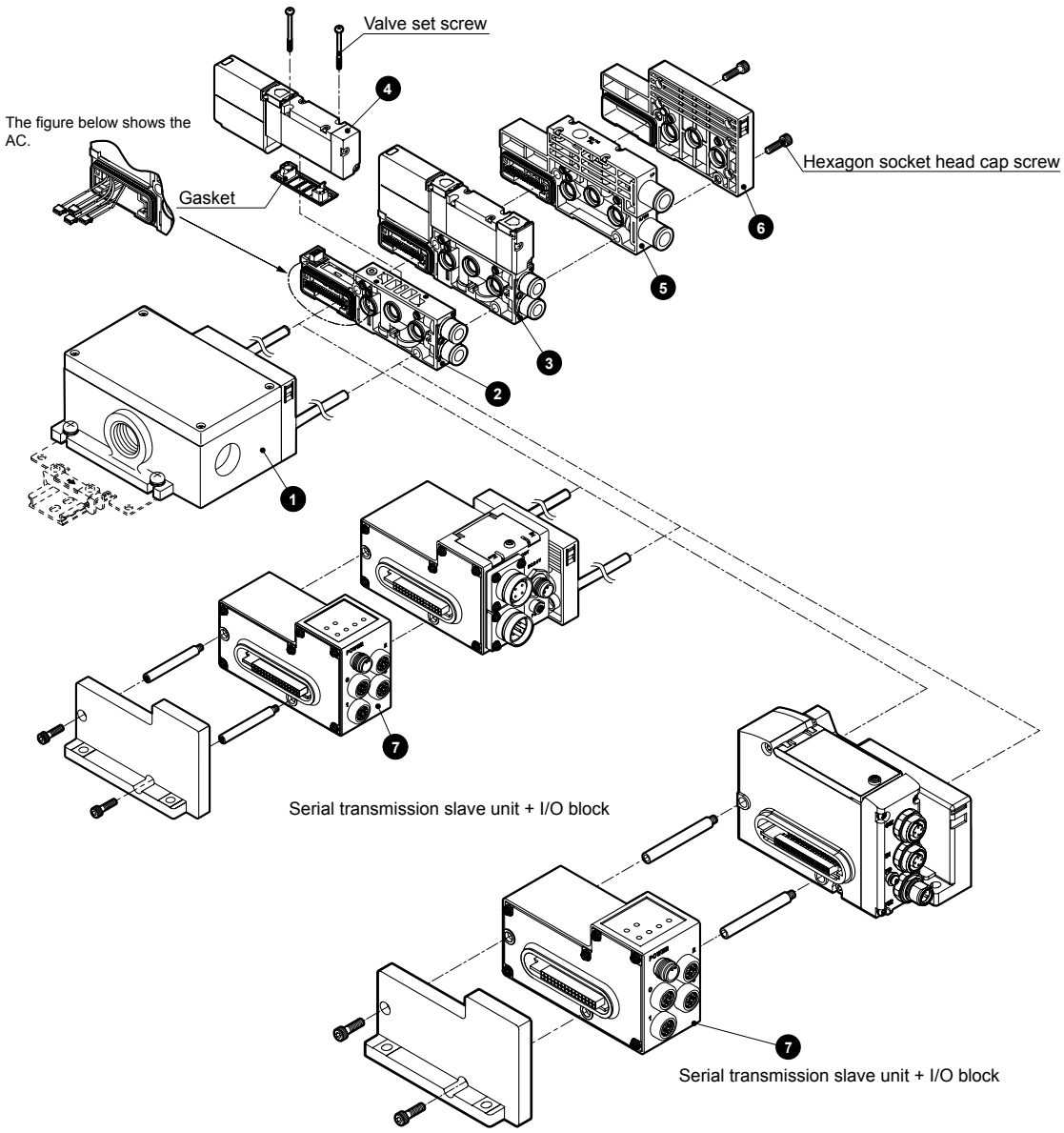
*1: How to read the table
Example) Y11 is a combination of one input block (4 points) and one output block (4 points).

2: For details, refer to “Input/output point numbers corresponding to wiring method T8 I/O No.” on page 972.

T8

Code	Layout of I/O blocks and station No.						
Y10						IN	Wiring block side
Y20					IN	IN	
Y30				IN	IN	IN	
Y40			IN	IN	IN	IN	
Y01						OUT	
Y02					OUT	OUT	
Y03				OUT	OUT	OUT	
Y04			OUT	OUT	OUT	OUT	
Y11					OUT	IN	
Y21				OUT	IN	IN	
Y31			OUT	IN	IN	IN	
Y41		OUT	IN	IN	IN	IN	
Y12				OUT	OUT	IN	
Y22			OUT	OUT	IN	IN	
Y32		OUT	OUT	IN	IN	IN	
Y42	OUT	OUT	IN	IN	IN	IN	

Manifold components explanation and parts list



List of main components (refer to pages 940 to 955 for details)

No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
1	Wiring block	NW4G2-T10	5	Supply and exhaust block	NW4G2-Q-10
2	Discrete valve block	NW4GB2-V1-C8	6	End block R	NW4G2-ER
3	Discrete valve block with solenoid valve	NW4GB220-C8-H-3	7	I/O block	NW4GB2-IN-N-B
4	Discrete solenoid valve for manifold	W4GB219-00-H-3			

Reduced wiring weight (for DC)

NW4GB2

Block	Model No.	Weight
Valve block with solenoid valve	NW4GB210-*-*-*	177
	NW4GB220-*-*-*	193
	NW4GB2$^{3}_{5}$0-*-*-*	200
Valve block with masking plate	NW4GB2-MP$^{S}_{D}$-*	113
Wiring block (serial transmission slave unit)	NW4GB2-T8*	430
I/O block (serial transmission slave unit)	NW4GB2-$^{IN}_{OUT}$-$^{N}_{P}$-$^{K}_{B}$	220

NW4GZ2

(g)

Block	Model No.	Weight
Valve block with solenoid valve	NW4GB210-*-*-*	177
	NW4GB220-*-*-*	192
	NW4GB2$^{3}_{5}$0-*-*-*	199
Valve block with masking plate	NW4GB2-MP$^{S}_{D}$-*	112
Wiring block (serial transmission slave unit)	NW4GB2-T8*	430
Wiring block (serial transmission slave unit)	NW4G2-T7*	280
I/O block (serial transmission slave unit)	NW4GB2-IN/OUT-N/P-K/B	220

Common

(g)

Block	Model No.	Weight	Block	Model No.	Weight
Supply and exhaust block	NW4G2-Q-*	137	Wiring block	NW4G2-T10	423
	NW4G2-QK-*	140		NW4G2-T20	490
	NW4G2-QZ-*	137		NW4G2-T30	370
	NW4G2-QKZ-*	143		NW4G2-T5*	367
End block	NW4G2-ER	91	Air supply spacer	W4G2-P(K)-*	60
	NW4G2-EXR	96	Exhaust spacer	W4G2-R-*-*	60
			Spacer pilot check valve	W4G2-PC-M	183
			Individual air supply compatible spacer with in-stop valve spacer	W4G2-PIS-*	115

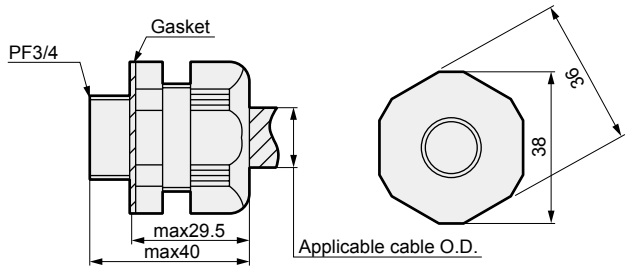
Parts list

Applicable	Part name	Model No.
Valve	Cartridge fitting φ4 straight	4G2-JOINT-C4
	Cartridge fitting φ6 straight	4G2-JOINT-C6
	Cartridge fitting φ8 straight	4G2-JOINT-C8
	Cartridge fitting φ6 (short) elbow	4G2-JOINT-CL6
	Cartridge fitting φ6 long elbow	4G2-JOINT-CLL6
	Cartridge fitting φ8 (short) elbow	4G2-JOINT-CL8
	Cartridge fitting φ8 long elbow	4G2-JOINT-CLL8
	Plug cartridge	4G2-JOINT-CPG
Supply and exhaust block port P/R	Cartridge fitting φ8 straight	N4G2-Q-JOINT-8
	Cartridge fitting φ10 straight	N4G2-Q-JOINT-10
	Cartridge fitting φ8 (short) elbow	N4G2-Q-JOINT-8L
	Cartridge fitting φ8 long elbow	N4G2-Q-JOINT-8LL
	Cartridge fitting φ10 (short) elbow	N4G2-Q-JOINT-10L
	Cartridge fitting φ10 long elbow	N4G2-Q-JOINT-10LL
	Plug cartridge	N4G2-Q-JOINT-PG
Supply and exhaust block port PA	Cartridge fitting φ6 straight	N4G-QK-JOINT-6
	Cartridge fitting φ6 elbow	N4G-QK-JOINT-6L

Parts kit for T10 wiring block

● Cable clamp

Model No.	Applicable cable O.D.	Content
W4G-SCL-18A	φ14.5 to 16.5	Used to protect cables from dust and jetting water.
W4G-SCL-18B	φ16.5 to 18.5	

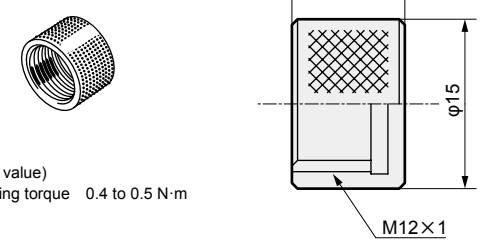


(Reference value)
Body tightening torque 4.0 to 4.5 N·m
Cable clamp tightening torque 3.0 to 3.5 N·m

Parts for I/O block

● Waterproof cap

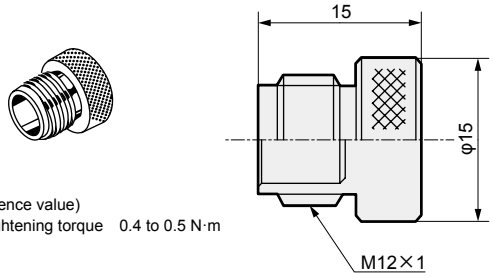
Model No.	Content
W4G-XSZ-11	Provides jet-proof protection of the power supply connector when the power supply is shared with the serial transmission slave unit.



(Reference value)
Tightening torque 0.4 to 0.5 N·m

● Waterproof plug

Model No.	Content
W4G-XSZ-12	Provides jet-proof protection of unused signal connectors.

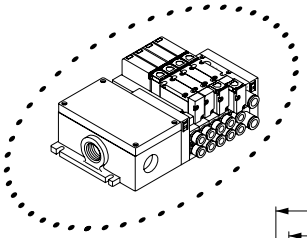


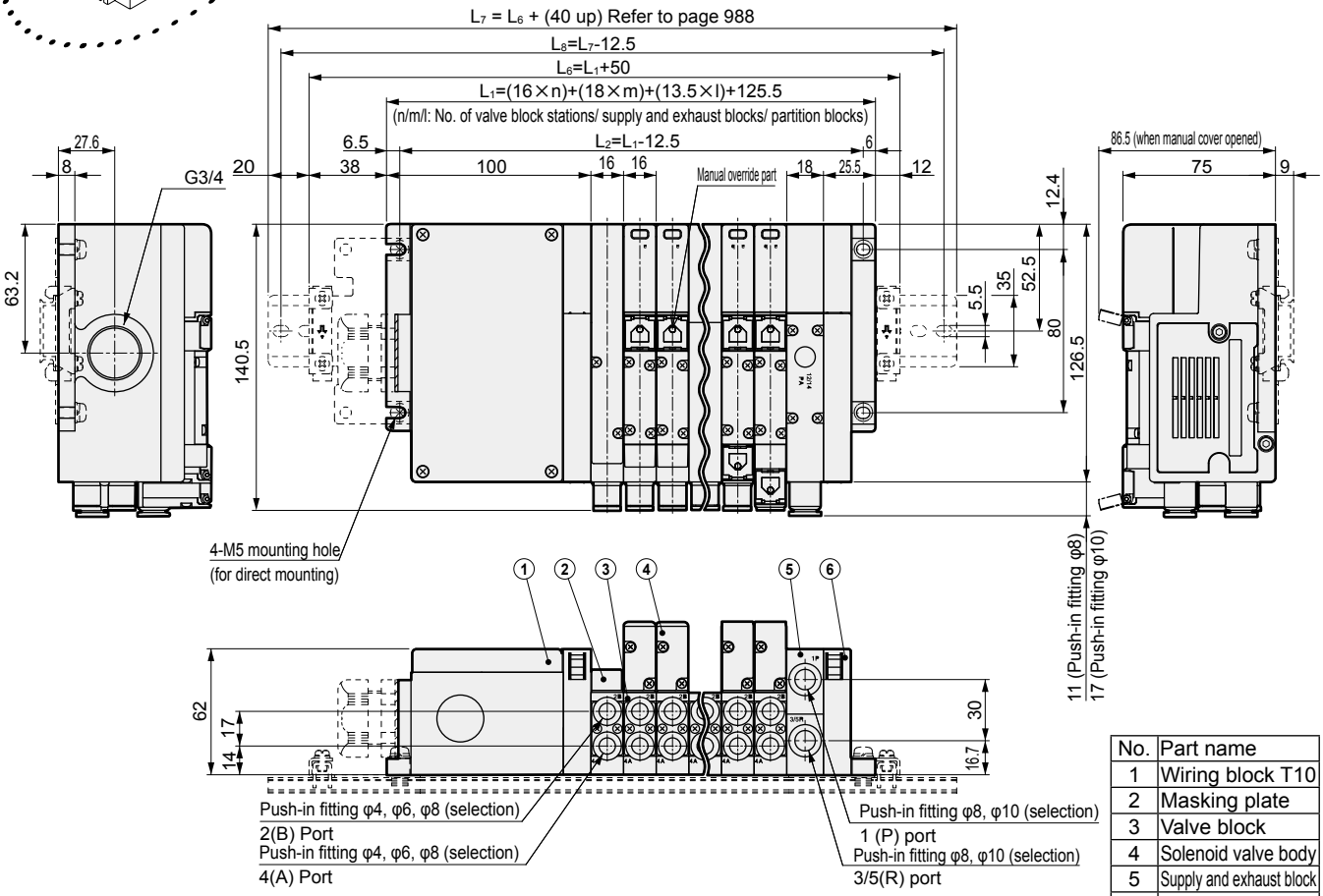
(Reference value)
Tightening torque 0.4 to 0.5 N·m

Dimensions CAD

MW4GB2

● Common terminal block (T10)

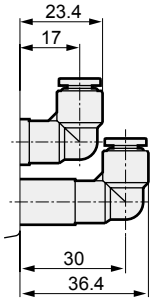




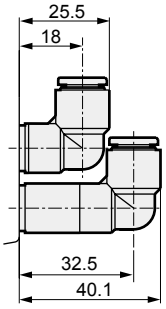
No.	Part name
1	Wiring block T10
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

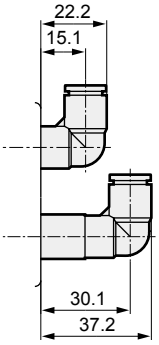


● φ8(CL8)

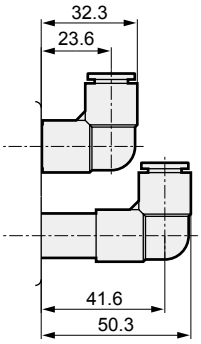


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



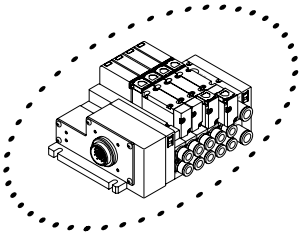
● φ10(CL10)

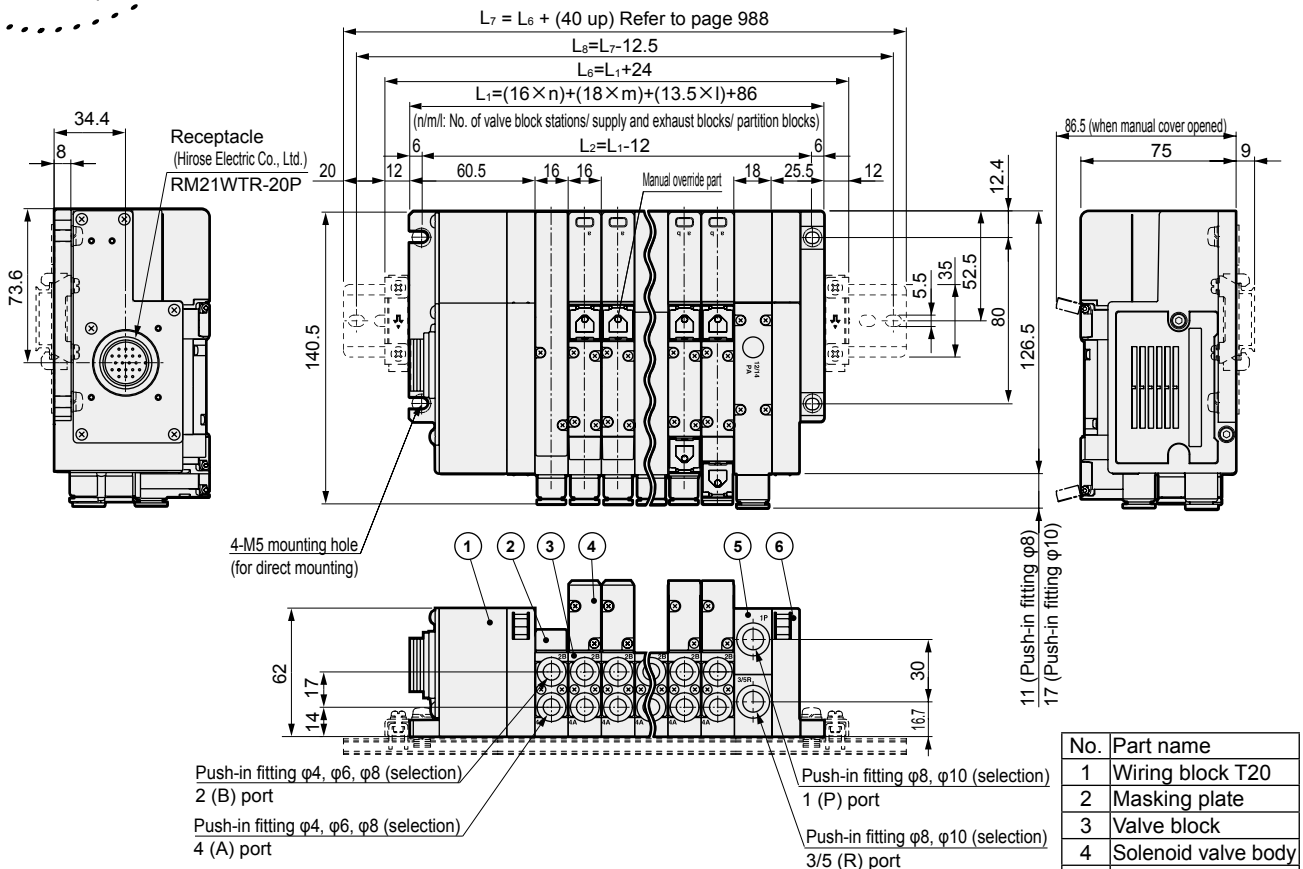


Dimensions CAD

MW4GB2

● Multi-connector (T20)

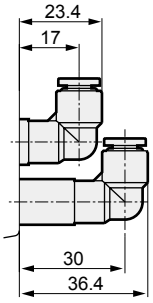




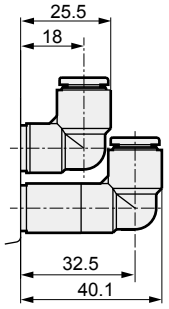
No.	Part name
1	Wiring block T20
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

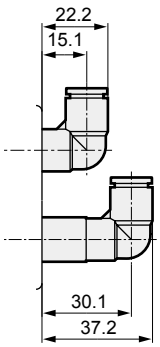


● φ8(CL8)

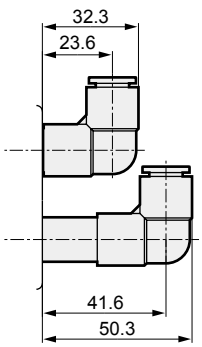


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



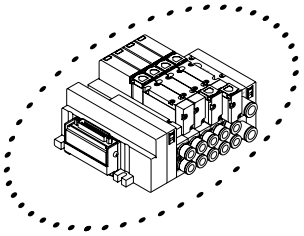
● φ10(CL10)

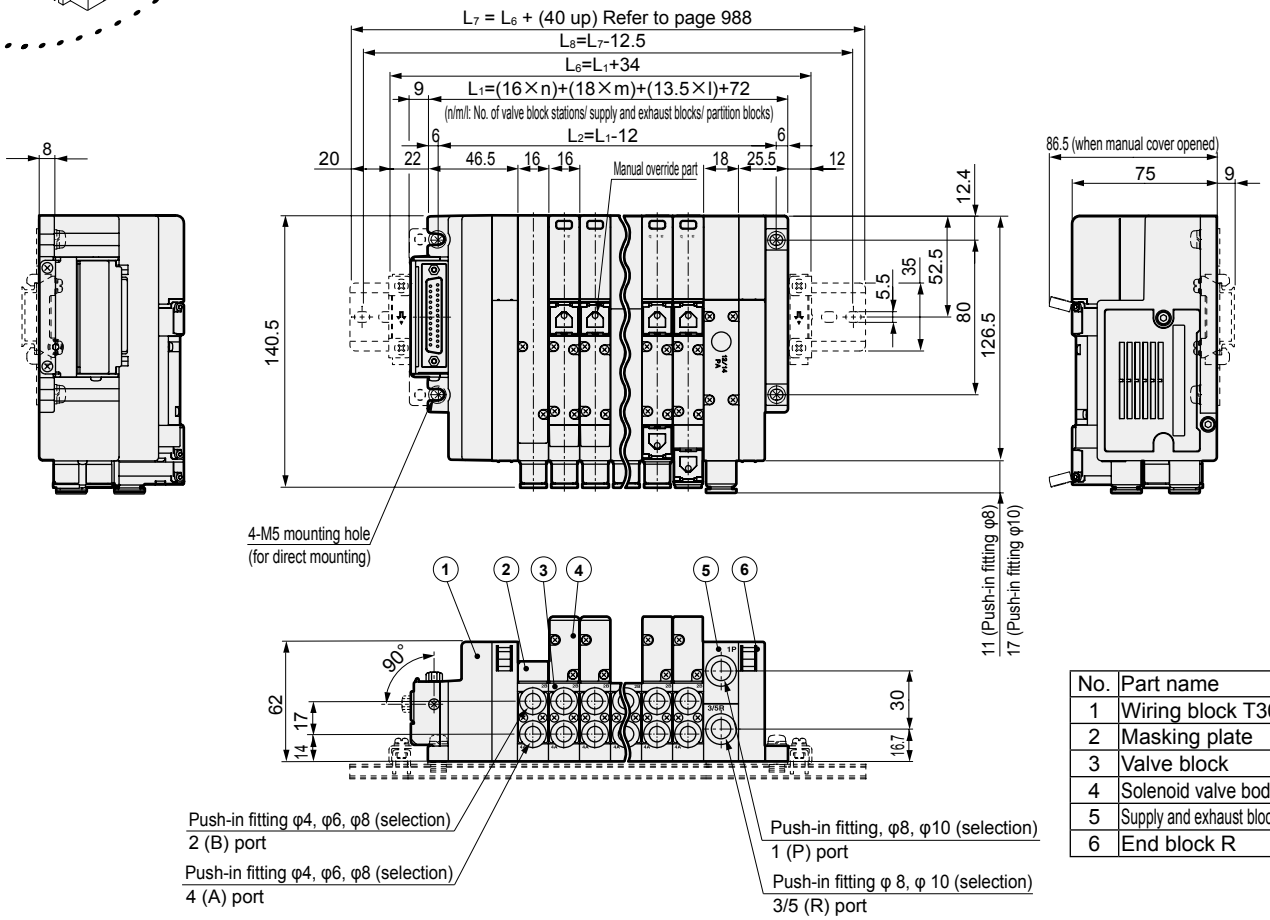


Dimensions CAD

MW4GB2

● D sub-connector (T30)

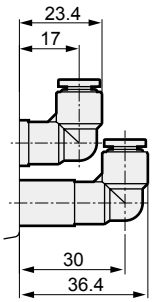




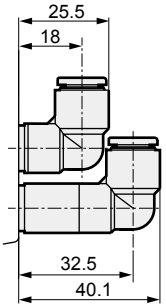
No.	Part name
1	Wiring block T30
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

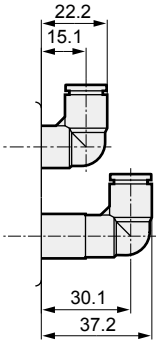


● φ8(CL8)

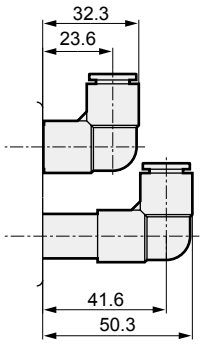


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



● φ10(CL10)

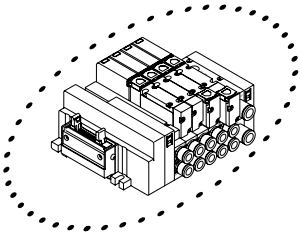


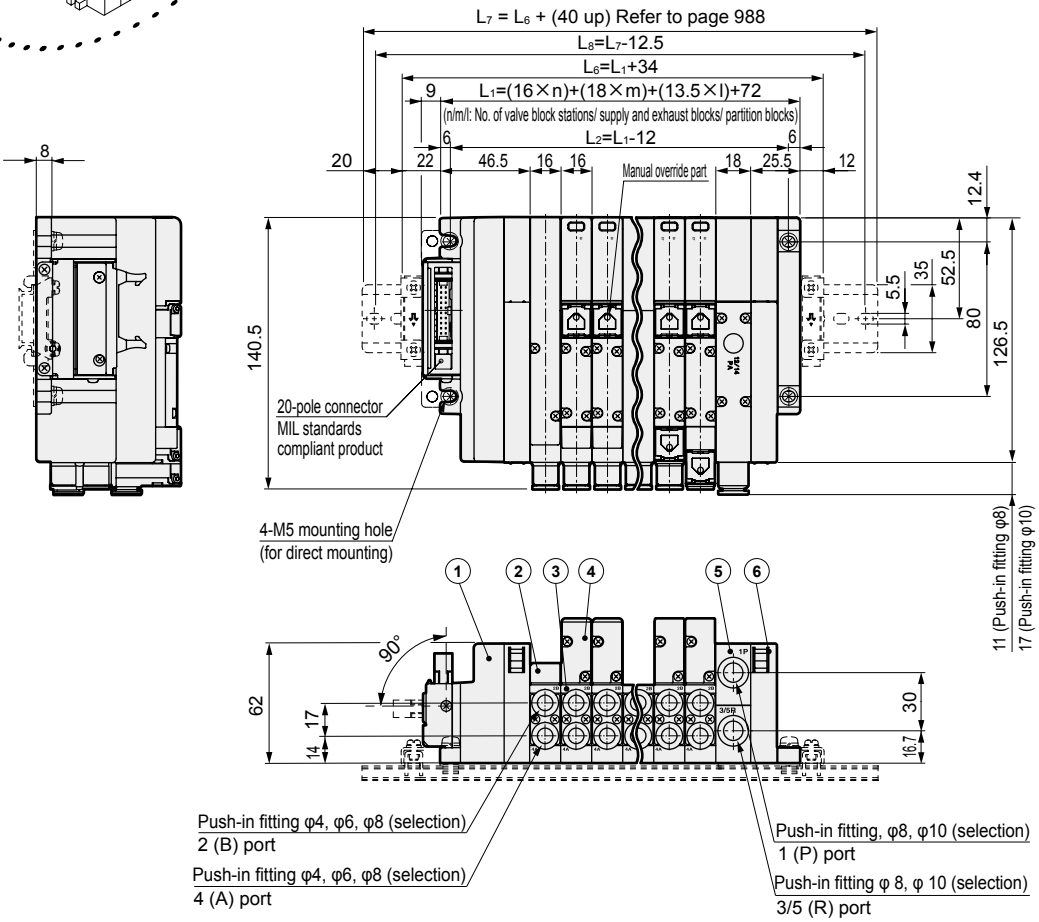
Dimensions CAD

MW4GB2

● Flat cable connector (T5*)

* Figure shows T51.
Flat cable connector has T53.
Dimensions are the same as T51.

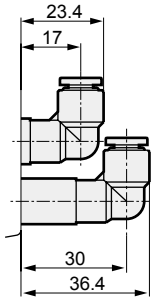




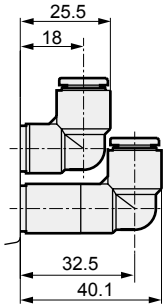
No.	Part name
1	Wiring block T5*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

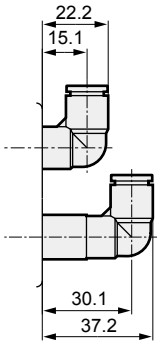


● φ8(CL8)

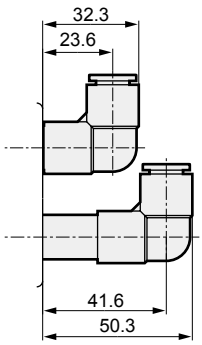


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



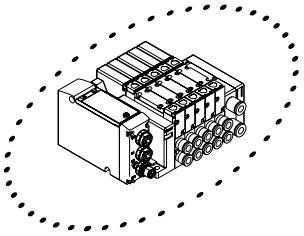
● φ10(CL10)

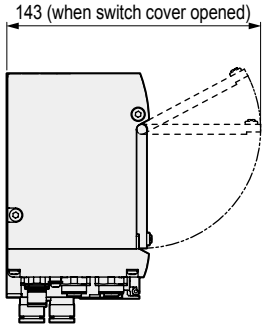


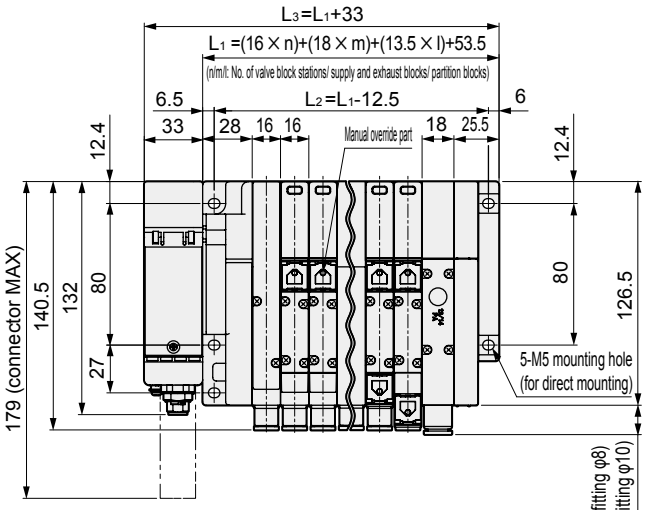
Dimensions CAD

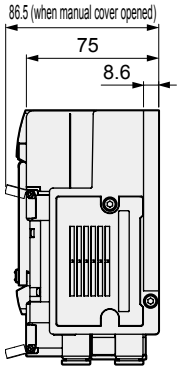
MW4GB2

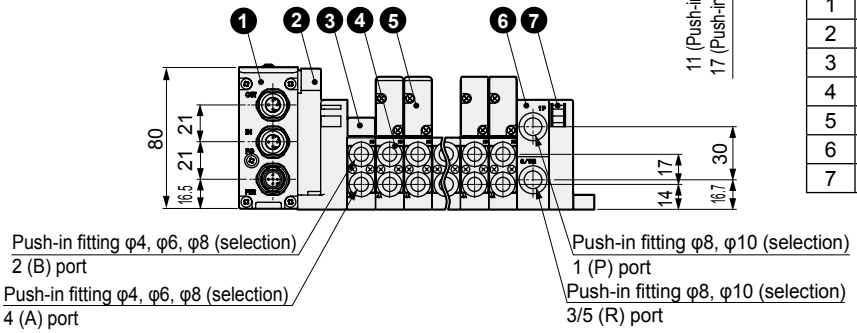
● Serial transmission EtherCAT (T7EC**)







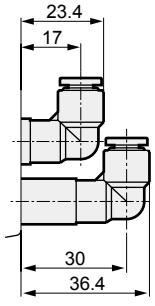




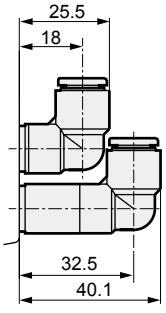
No.	Part name
1	Serial transmission slave unit W4G-OPP8 Series
2	Wiring block
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

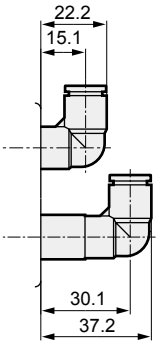


● φ8(CL8)

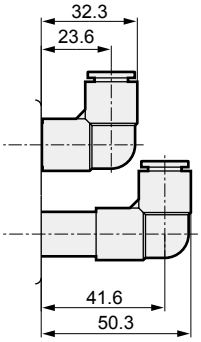


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



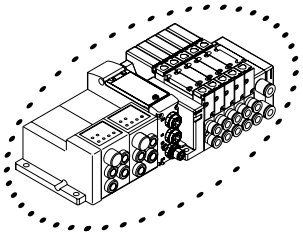
● φ10(CL10)

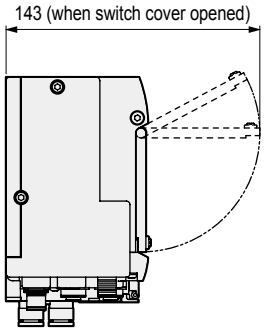


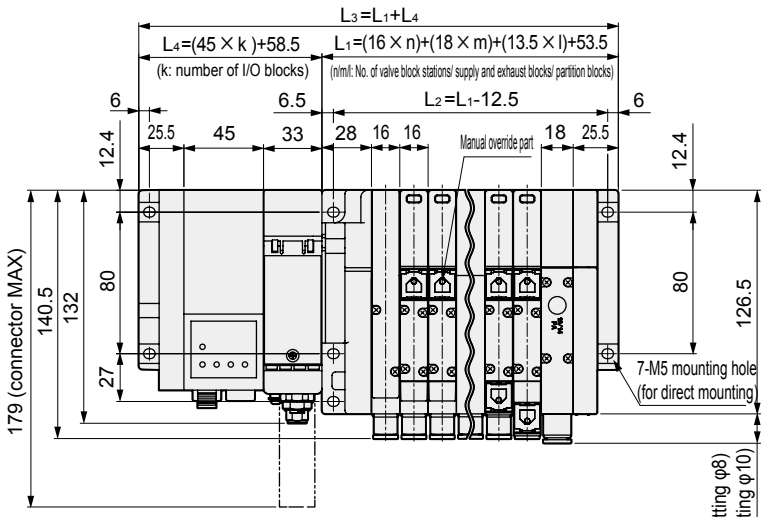
Dimensions CAD

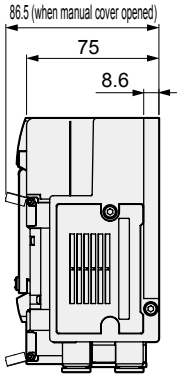
MW4GB2

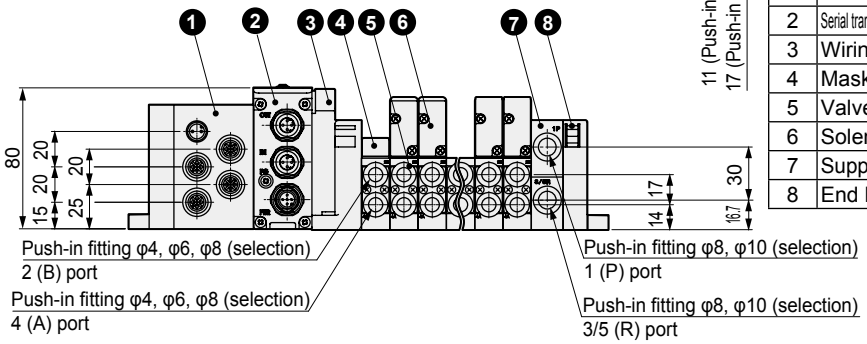
● Serial transmission EtherCAT (T7EC*B*) with I/O







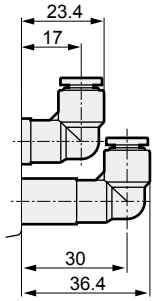




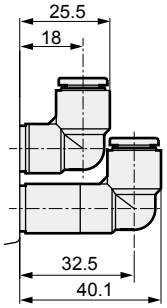
No.	Part name
1	I/O block
2	Serial transmission slave unit W4G-OPP8 Series
3	Wiring block
4	Masking plate
5	Valve block
6	Solenoid valve body
7	Supply and exhaust block
8	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

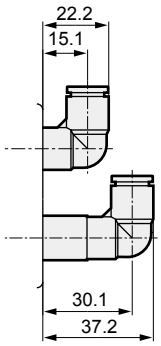


● φ8(CL8)

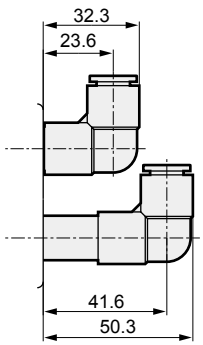


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



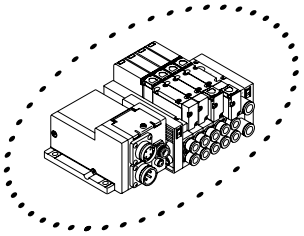
● φ10(CL10)

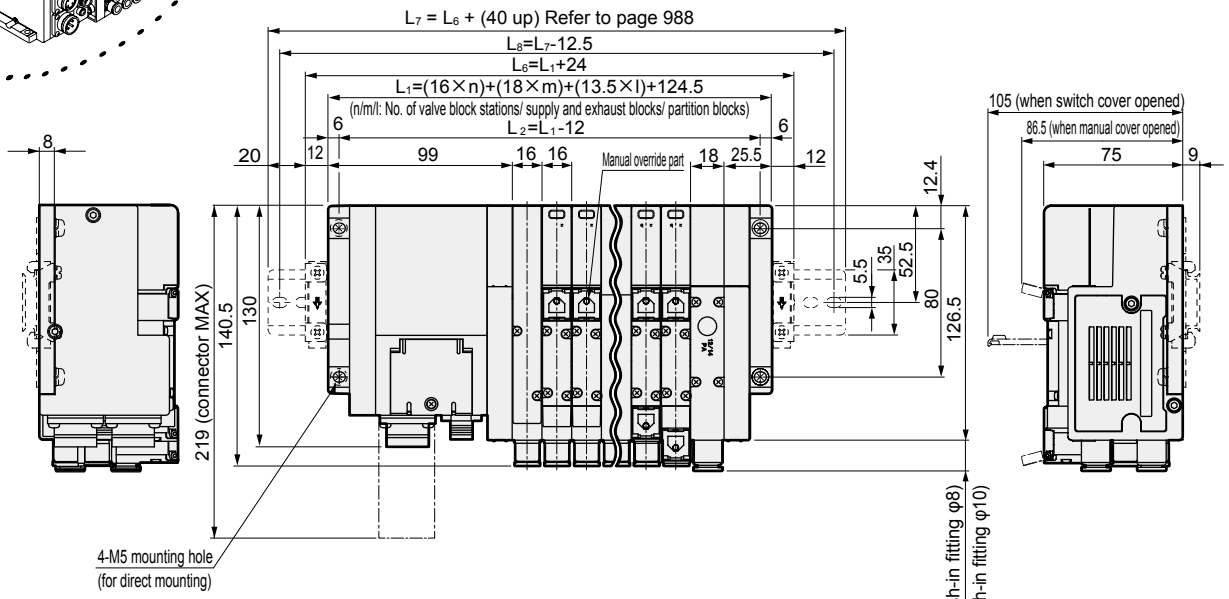


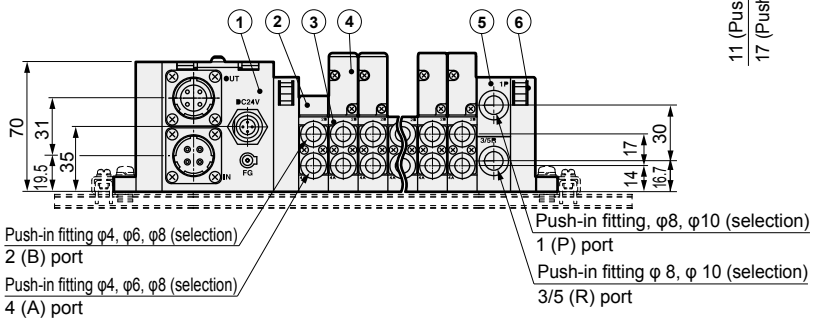
Dimensions CAD

MW4GB2

● Serial transmission CC-Link (T8G*)



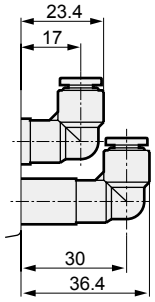




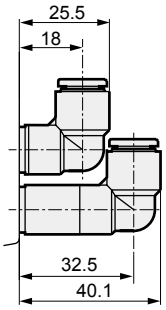
No.	Part name
1	Wiring block T8*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

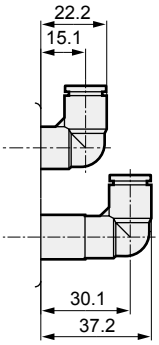


● φ8(CL8)

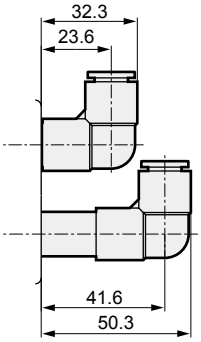


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



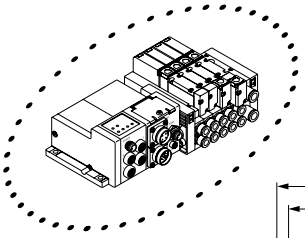
● φ10(CL10)

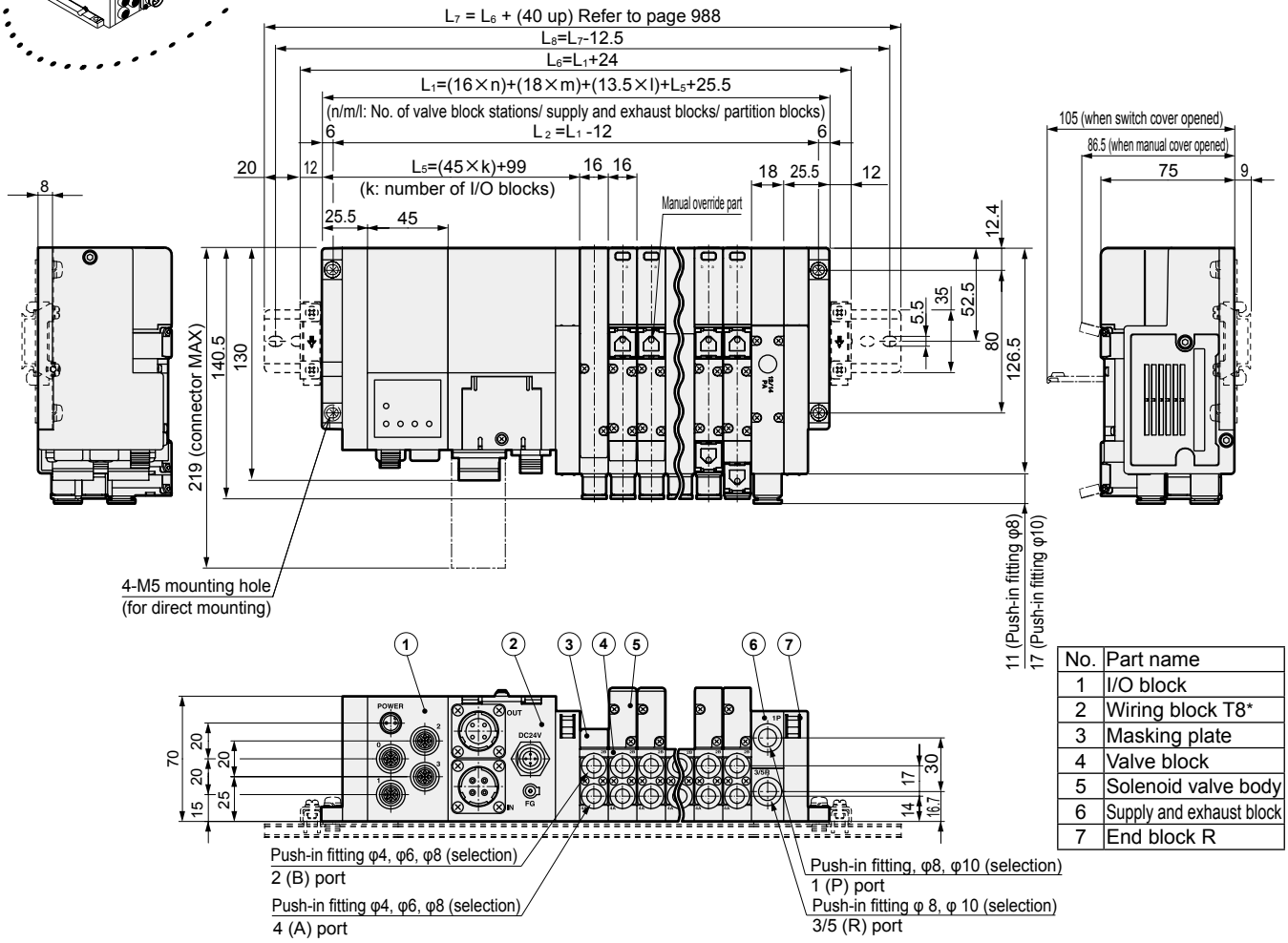


Dimensions CAD

MW4GB2

● Serial transmission CC-Link (T8G*) + I/O block

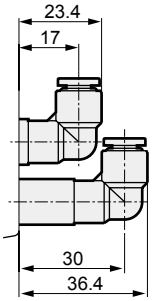




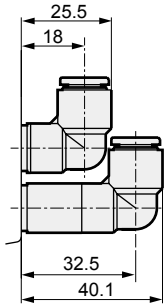
No.	Part name
1	I/O block
2	Wiring block T8*
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

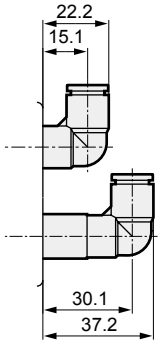


● φ8(CL8)

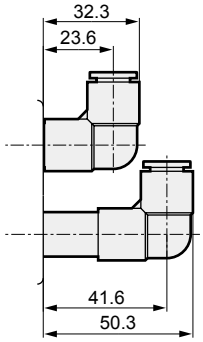


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



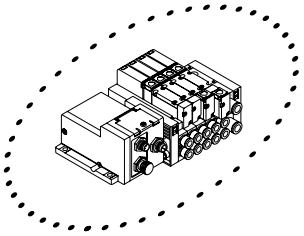
● φ10(CL10)

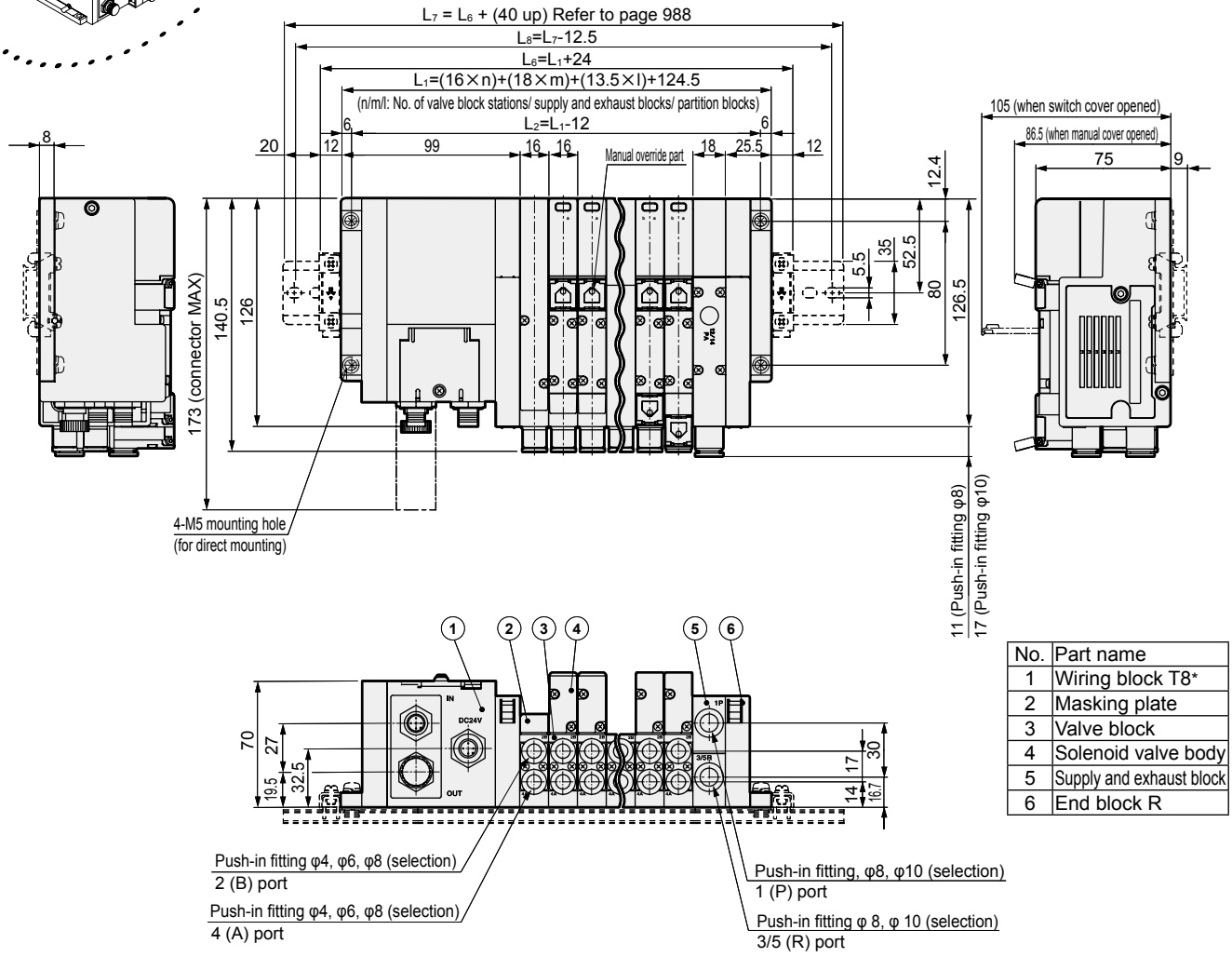


Dimensions CAD

MW4GB2

● Serial transmission DeviceNet (T8D*)

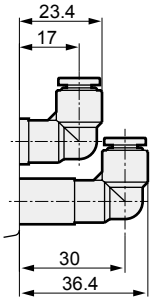




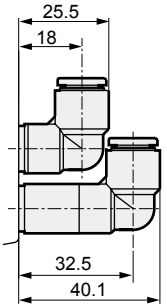
No.	Part name
1	Wiring block T8*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

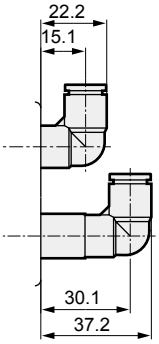


● φ8(CL8)

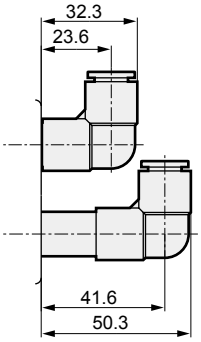


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



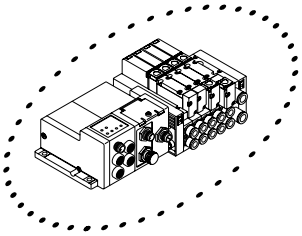
● φ10(CL10)

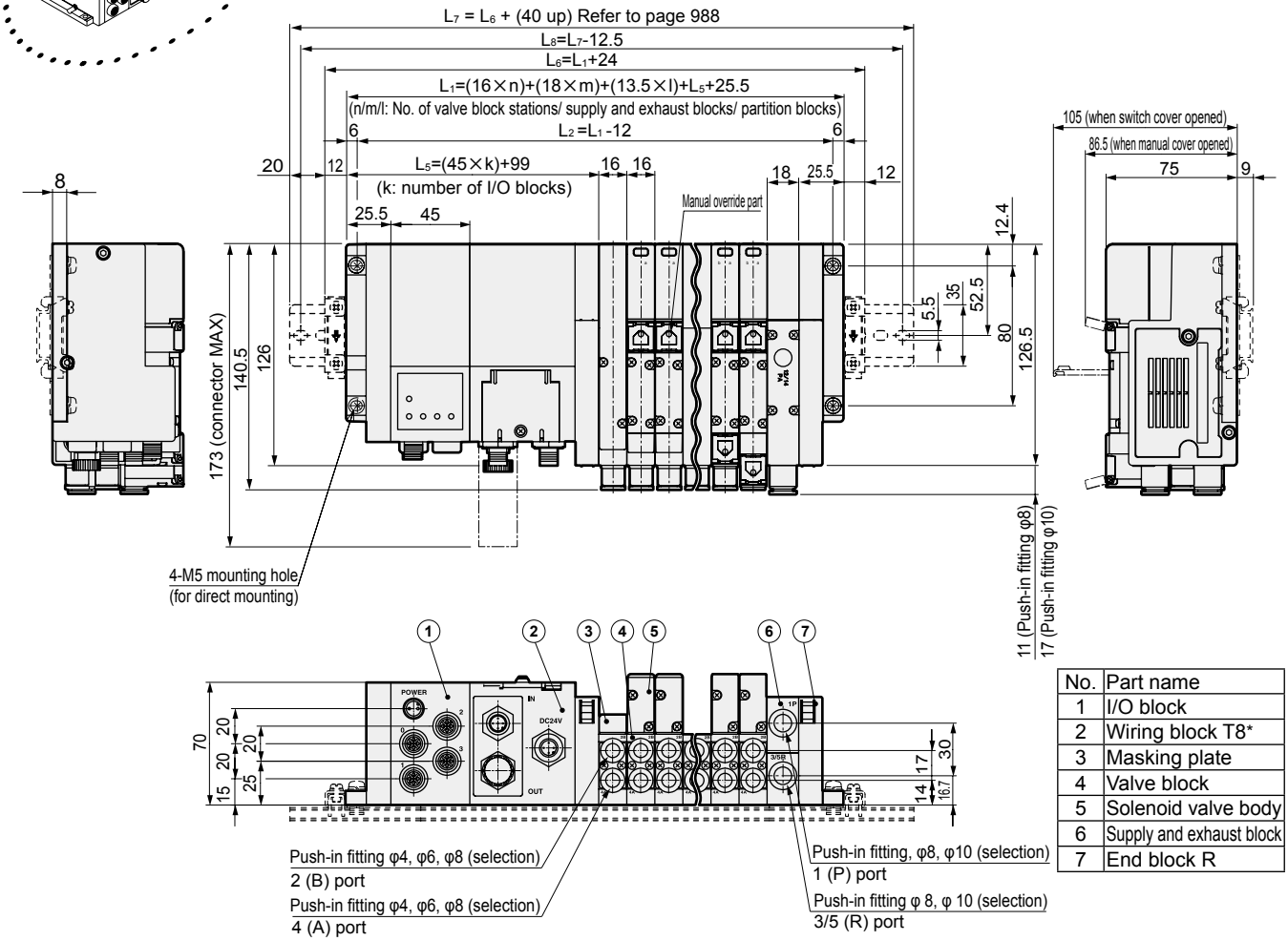


Dimensions CAD

MW4GB2

● Serial transmission DeviceNet (T8D*) + I/O block

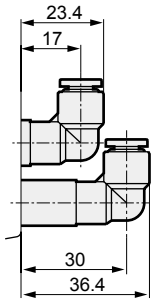




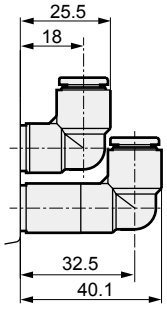
No.	Part name
1	I/O block
2	Wiring block T8*
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

● Radial push-in fitting for valve block (upward)
For single solenoid/double solenoid manifolds only.
Port A is a long elbow and port B a short elbow.

● φ6(CL6)

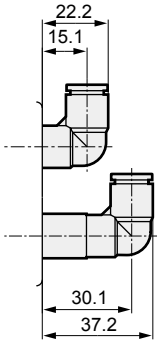


● φ8(CL8)

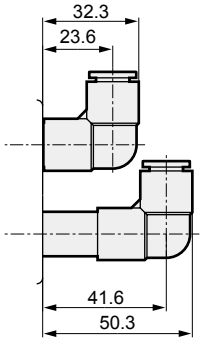


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



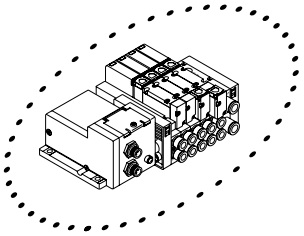
● φ10(CL10)

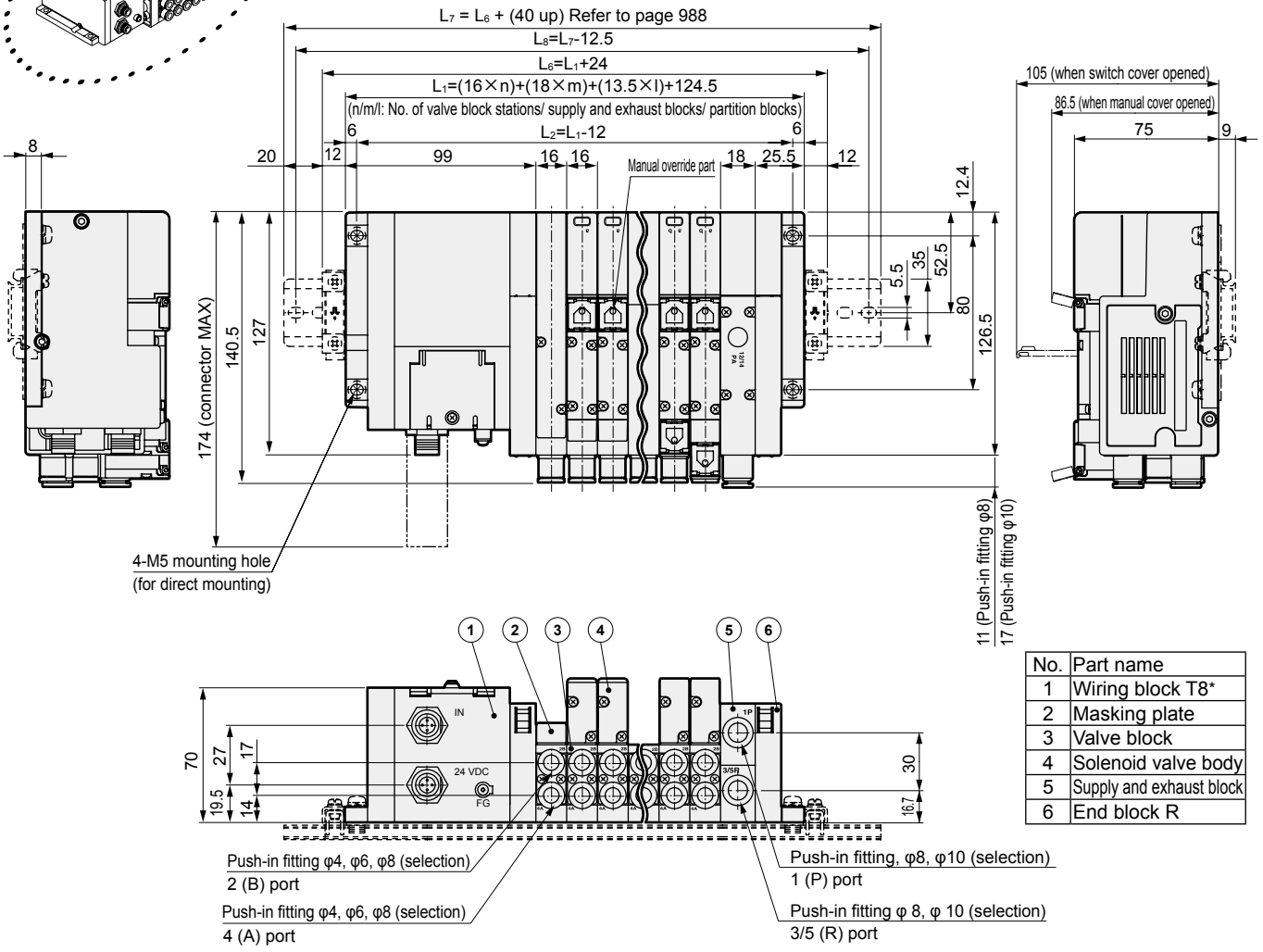


Dimensions CAD

MW4GB2

- Serial transmission AS-i (T8M*)
- Serial transmission CompoBus/S (T8C*)

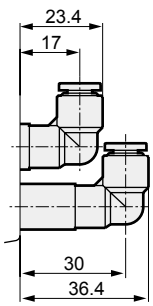




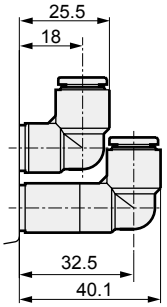
No.	Part name
1	Wiring block T8*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

- Radial push-in fitting for valve block (upward)
  For single solenoid/double solenoid manifolds only.
  Port A is a long elbow and port B a short elbow.

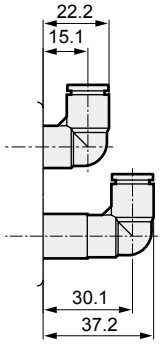
- φ6(CL6)



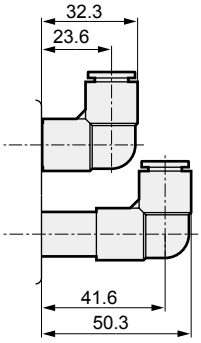
- φ8(CL8)



- Radial push-in fitting for supply and exhaust block (upward)
- φ8(CL8)



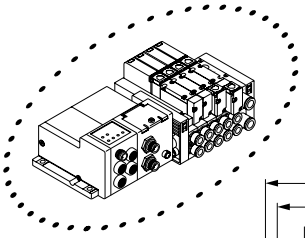
- φ10(CL10)

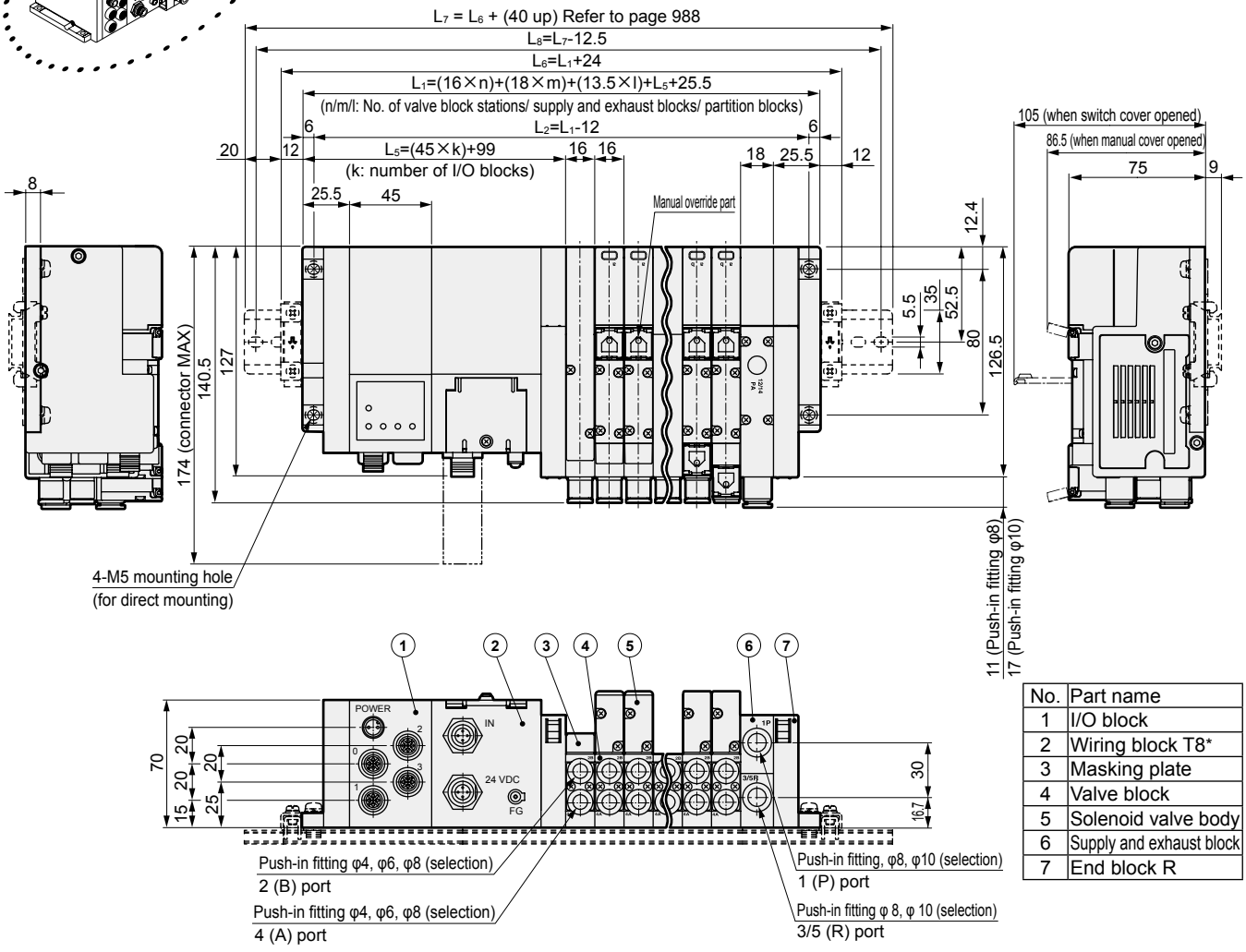


Dimensions CAD

MW4GB2

- Serial transmission AS-i (T8M*) + I/O block
- Serial transmission CompoBus/S (T8C*) + I/O block

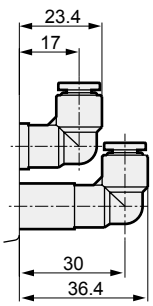




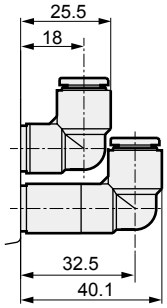
No.	Part name
1	I/O block
2	Wiring block T8*
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

- Radial push-in fitting for valve block (upward)
  For single solenoid/double solenoid manifolds only.
  Port A is a long elbow and port B a short elbow.

- φ6(CL6)

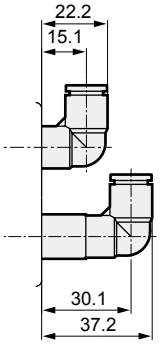


- φ8(CL8)

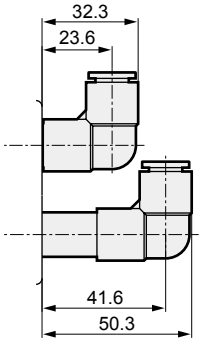


- Radial push-in fitting for supply and exhaust block (upward)

- φ8(CL8)



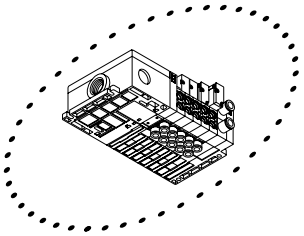
- φ10(CL10)

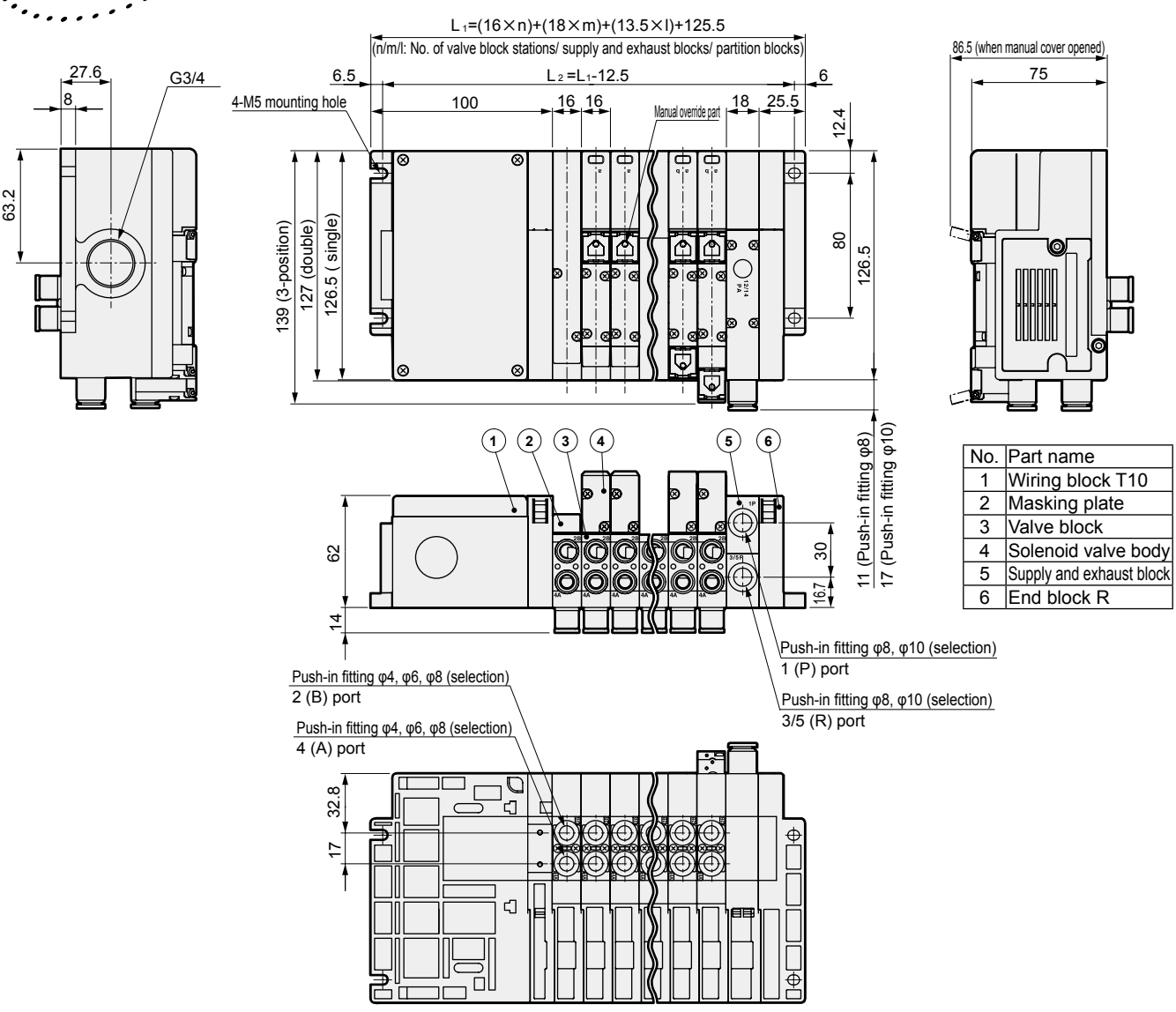


Dimensions CAD

MW4GZ2

● Common terminal block (T10)

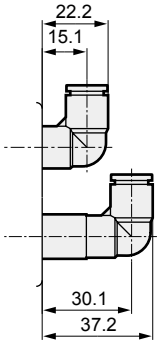




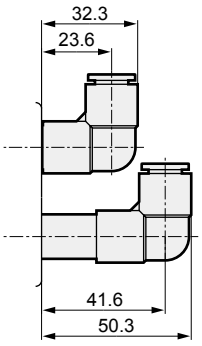
No.	Part name
1	Wiring block T10
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



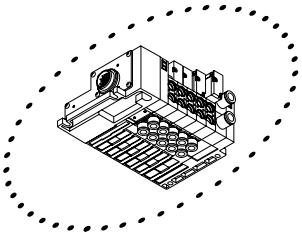
● φ10(CL10)

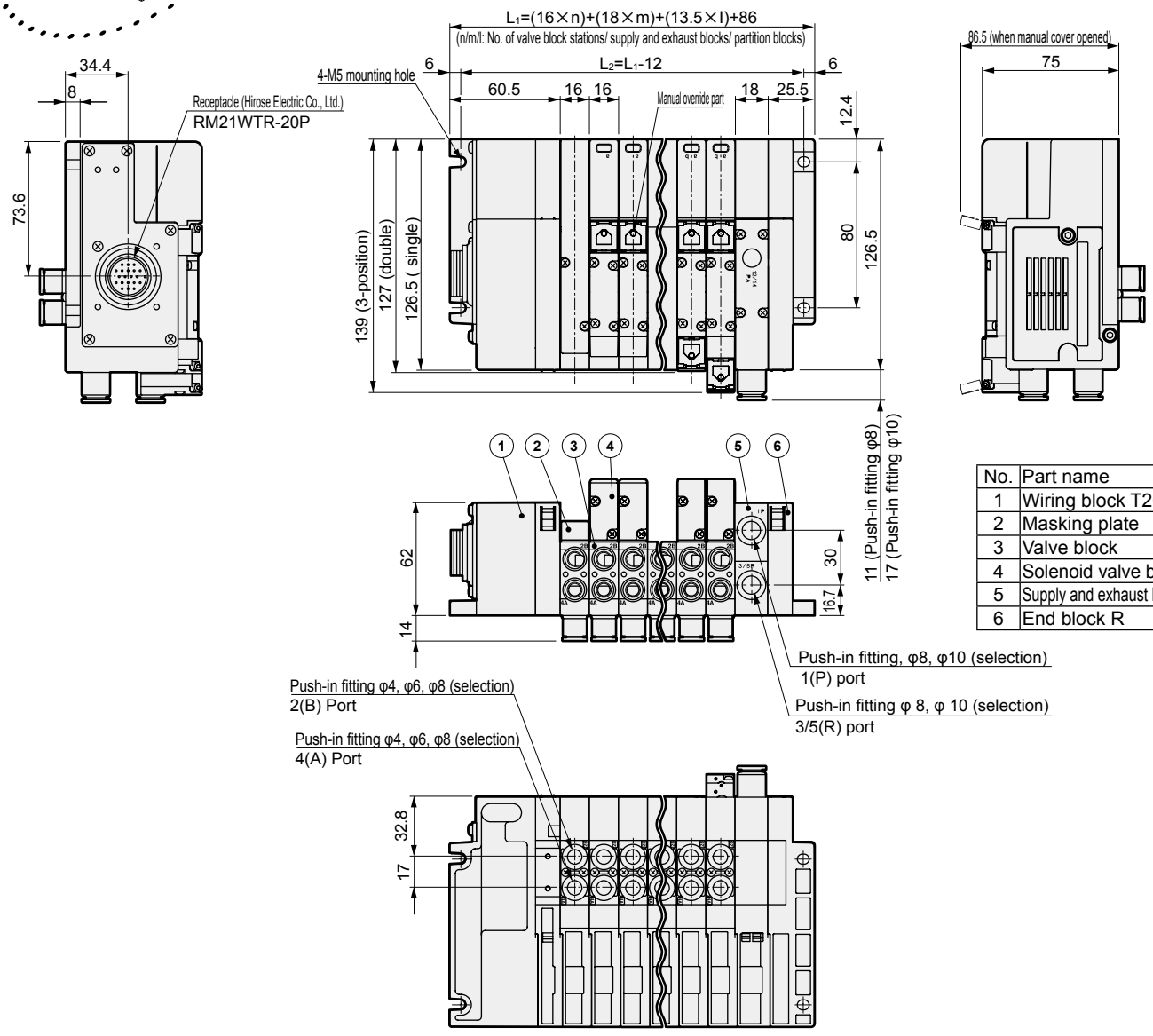


Dimensions CAD

MW4GZ2

● Multi-connector (T20)

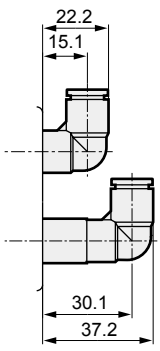




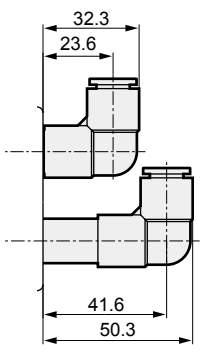
No.	Part name
1	Wiring block T20
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



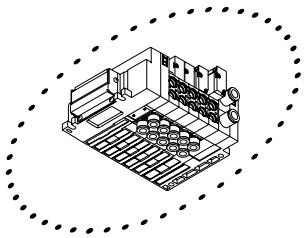
● φ10(CL10)

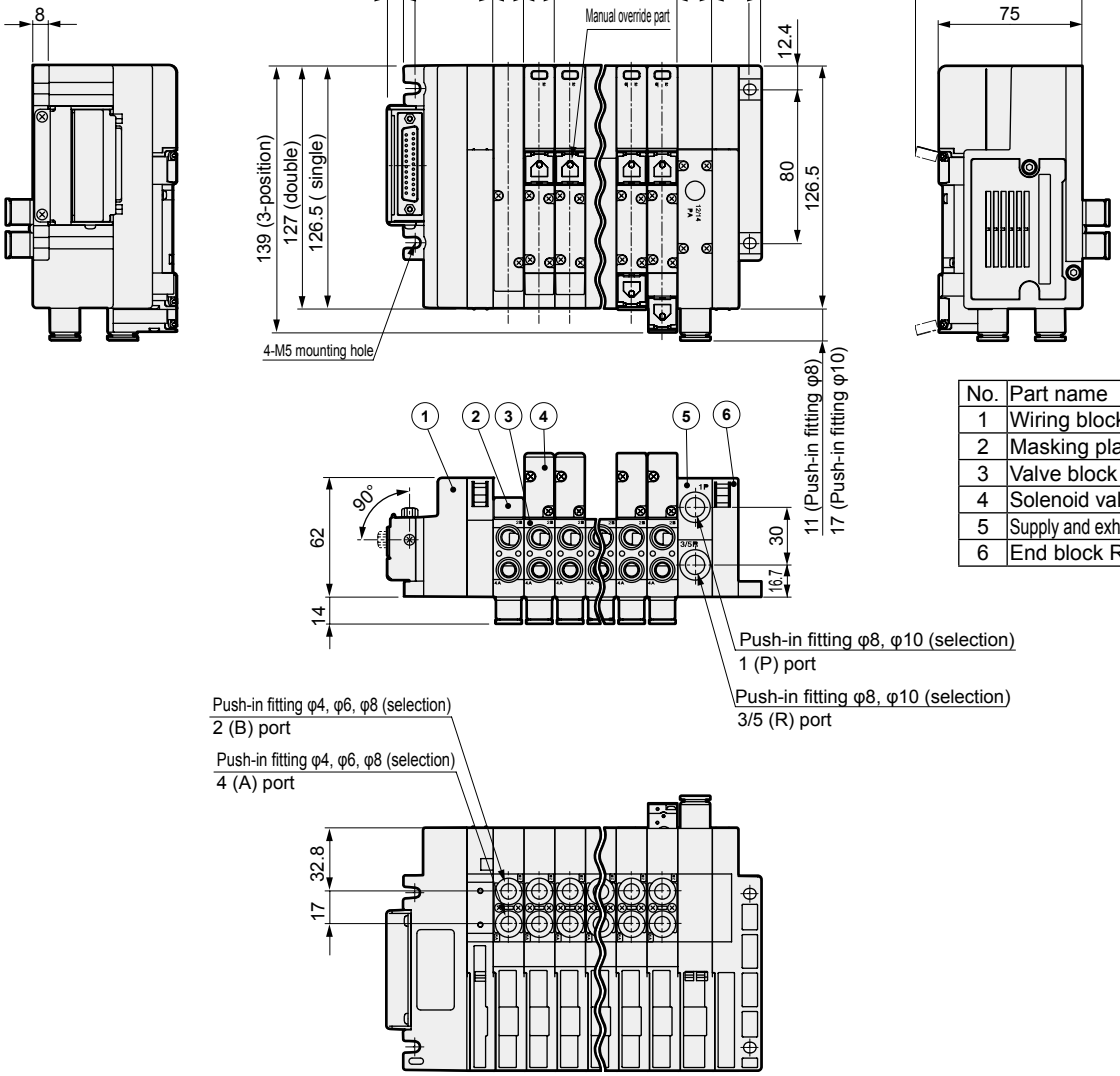


Dimensions CAD

MW4GZ2

● D sub-connector (T30)

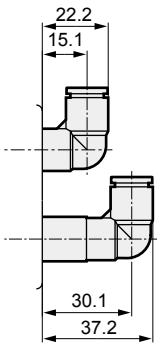




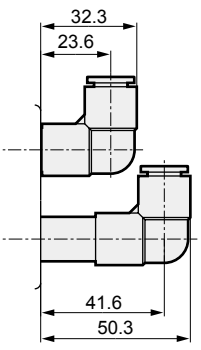
No.	Part name
1	Wiring block T30
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



● φ10(CL10)

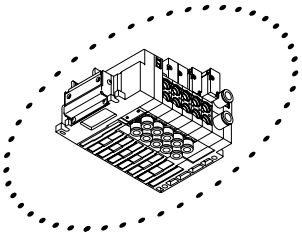


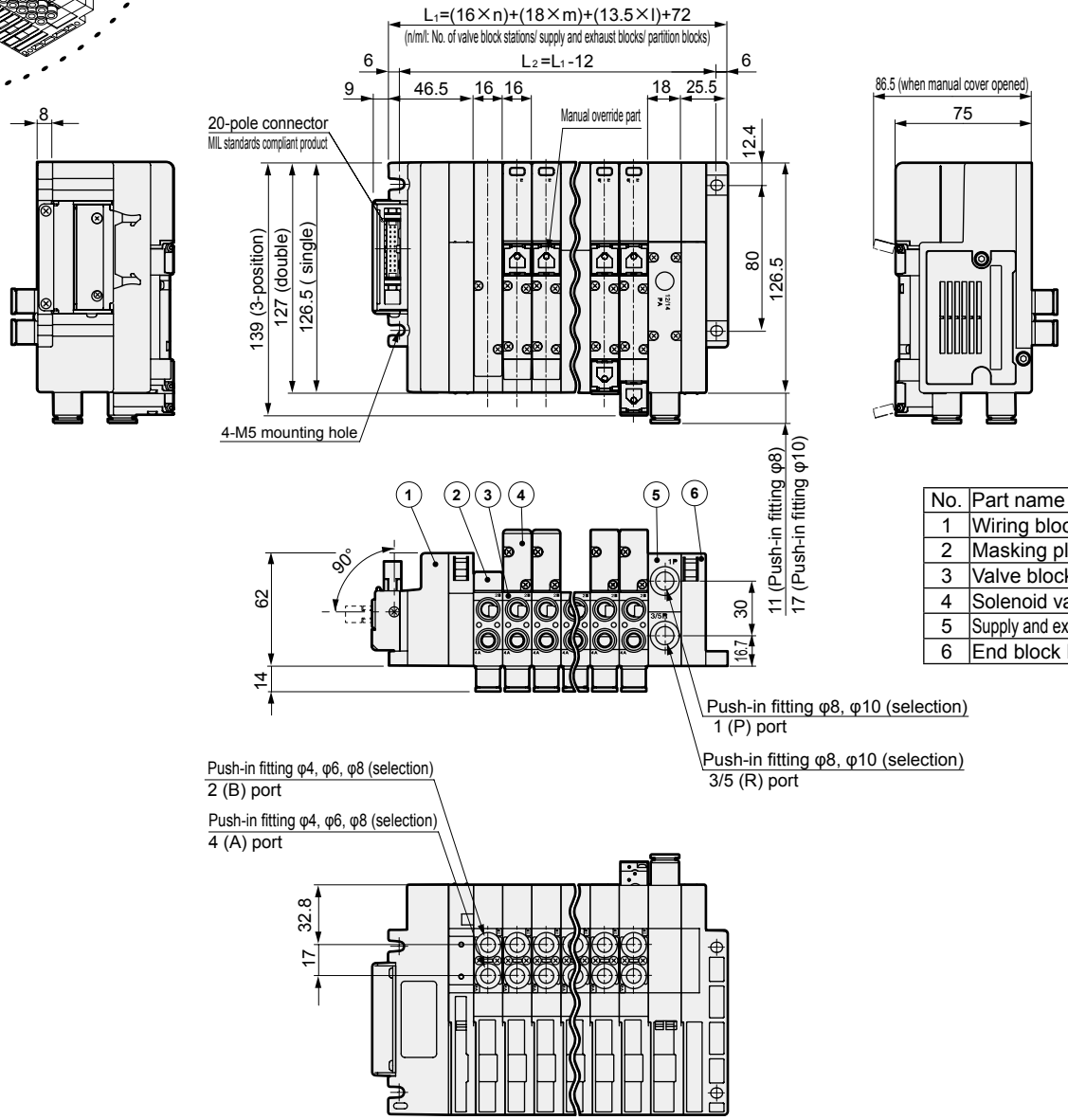
Dimensions CAD

MW4GZ2

● Flat cable connector (T5*)

* Figure shows T51.
Flat cable connector has T53.
Dimensions are the same as T51.

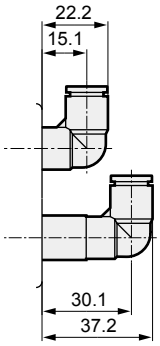




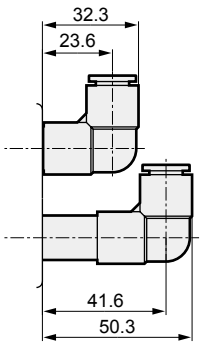
No.	Part name
1	Wiring block T5*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



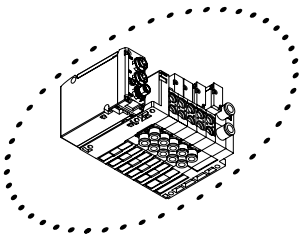
● φ10(CL10)

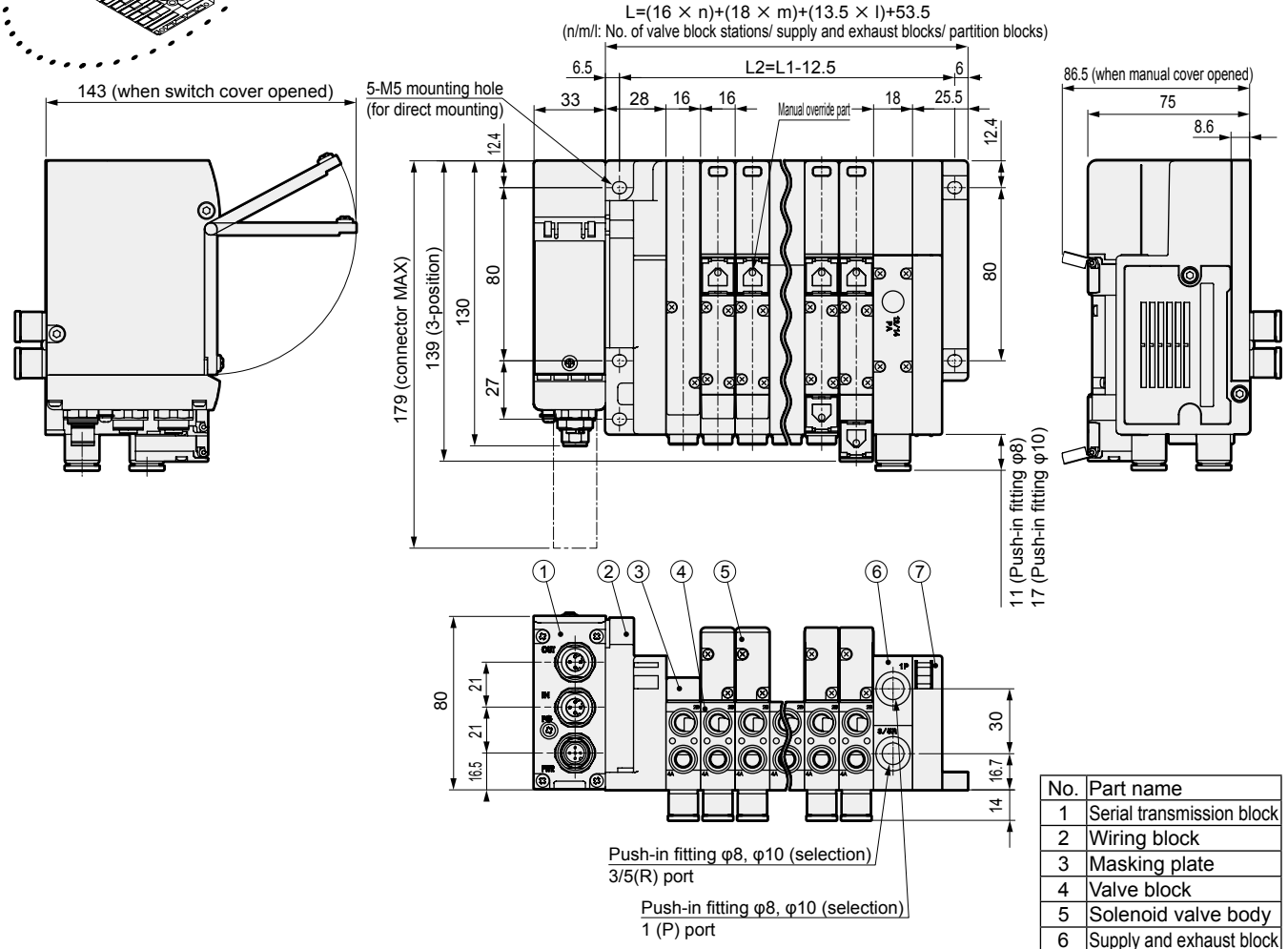


Dimensions CAD

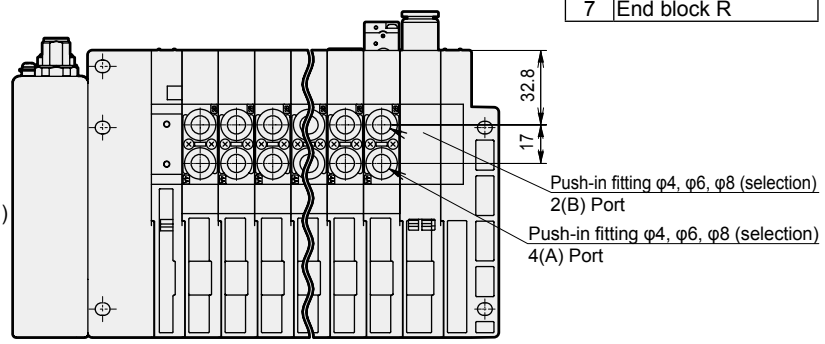
MW4GZ2

● Serial transmission EtherCAT (T7EC**)



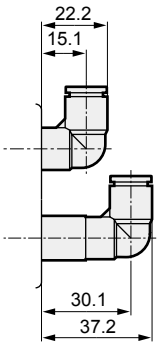


No.	Part name
1	Serial transmission block
2	Wiring block
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

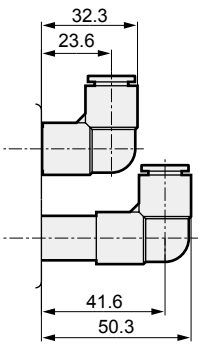


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



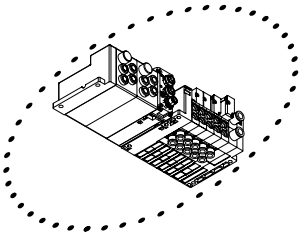
● φ10(CL10)

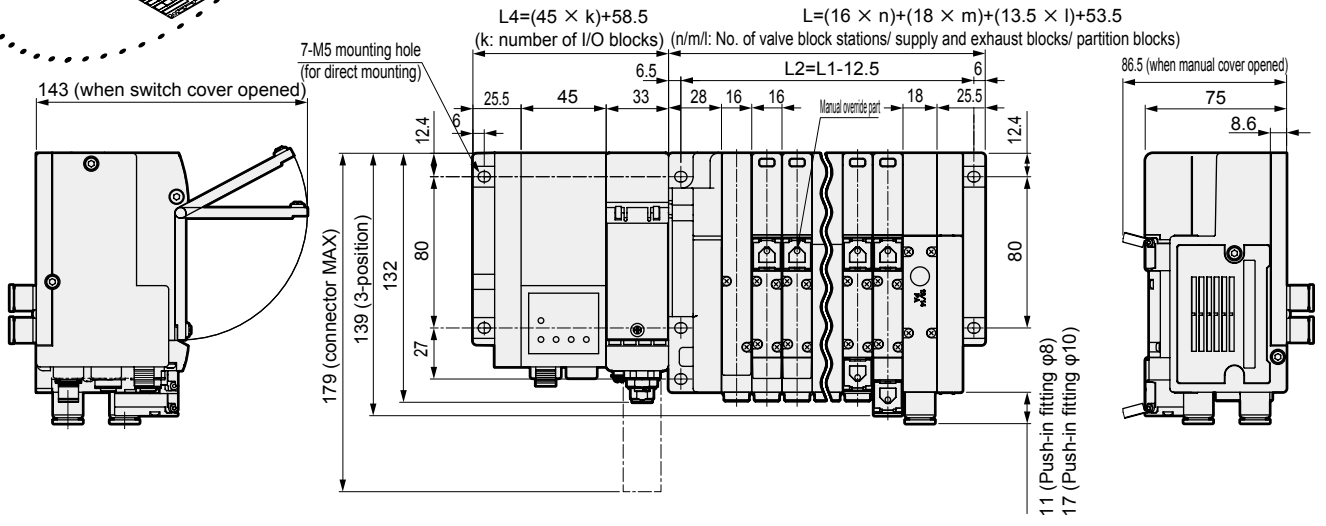


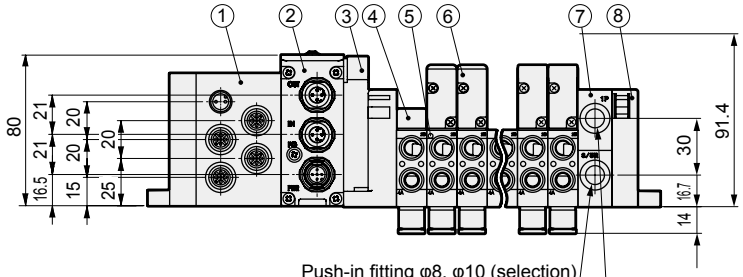
Dimensions CAD

MW4GZ2

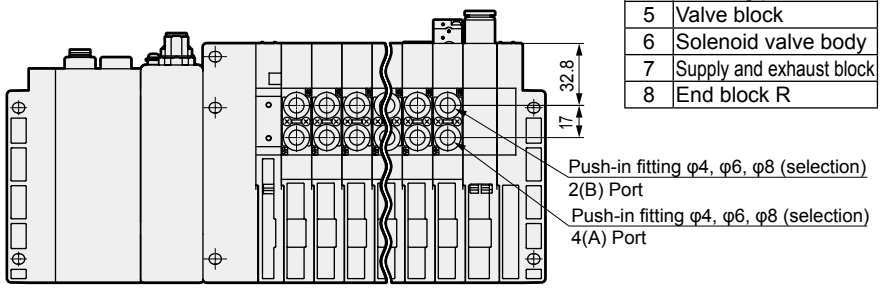
● Serial transmission EtherCAT (T7EC*B*) with I/O type





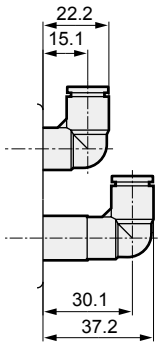


No.	Part name
1	I/O block
2	Serial transmission block
3	Wiring block
4	Masking plate
5	Valve block
6	Solenoid valve body
7	Supply and exhaust block
8	End block R

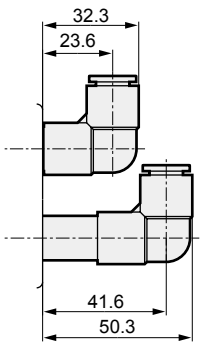


● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



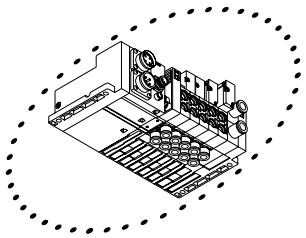
● φ10(CL10)

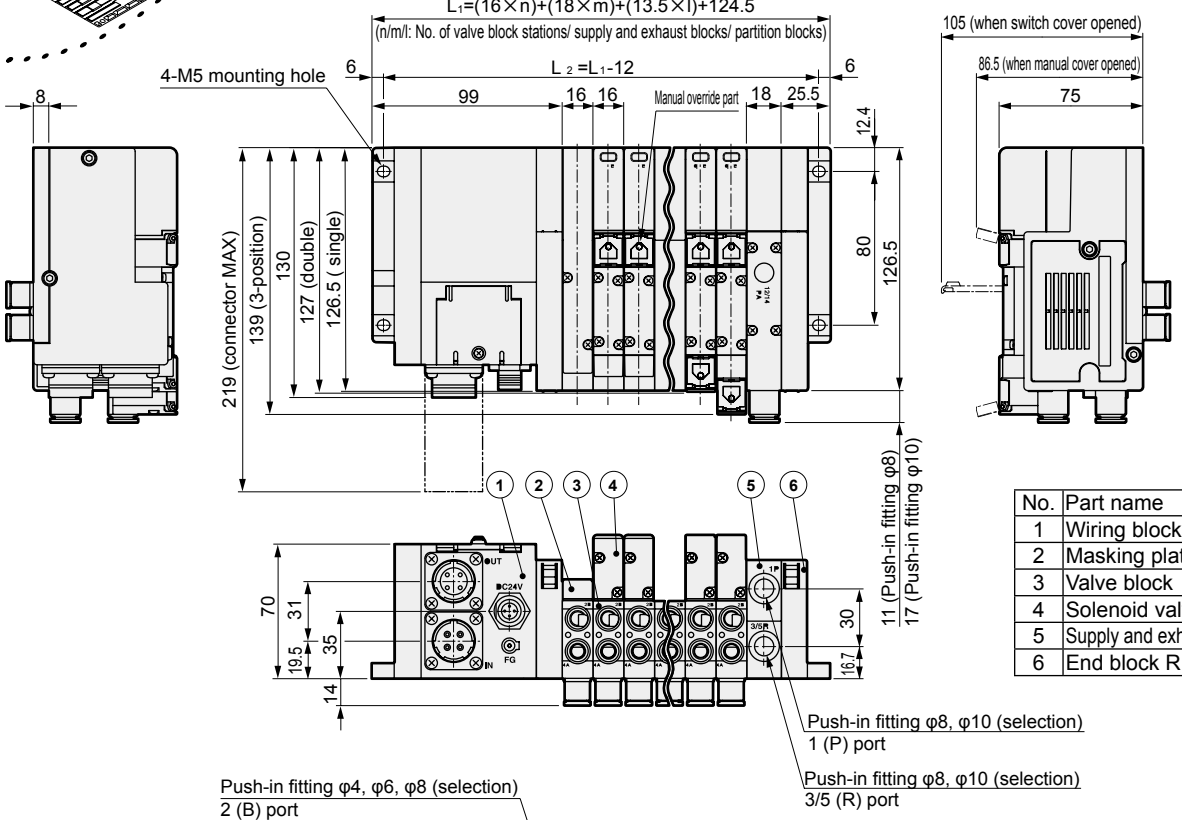


Dimensions CAD

MW4GZ2

● Serial transmission CC-Link (T8G*)

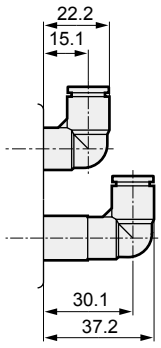




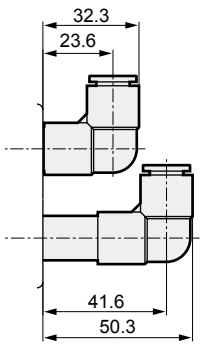
No.	Part name
1	Wiring block T8*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



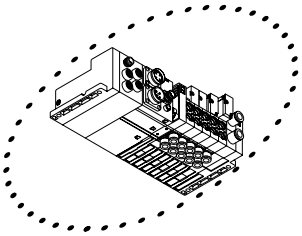
● φ10(CL10)

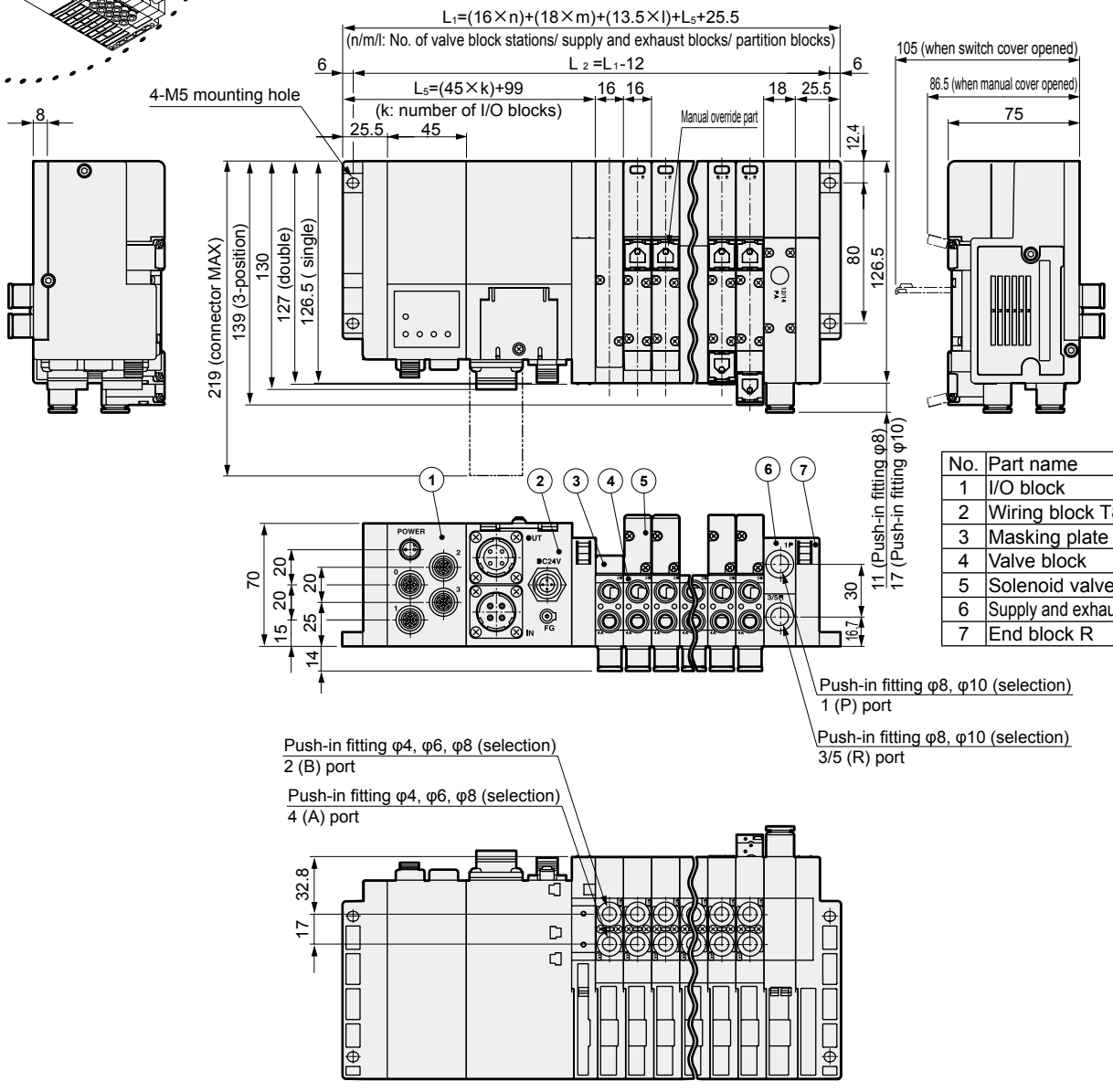


Dimensions CAD

MW4GZ2

● Serial transmission CC-Link (T8G*) + I/O block

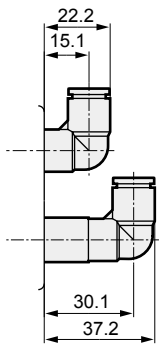




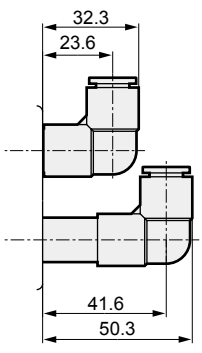
No.	Part name
1	I/O block
2	Wiring block T8*
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



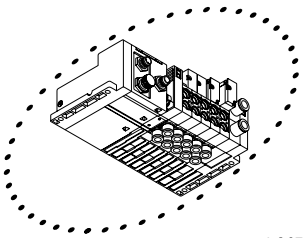
● φ10(CL10)

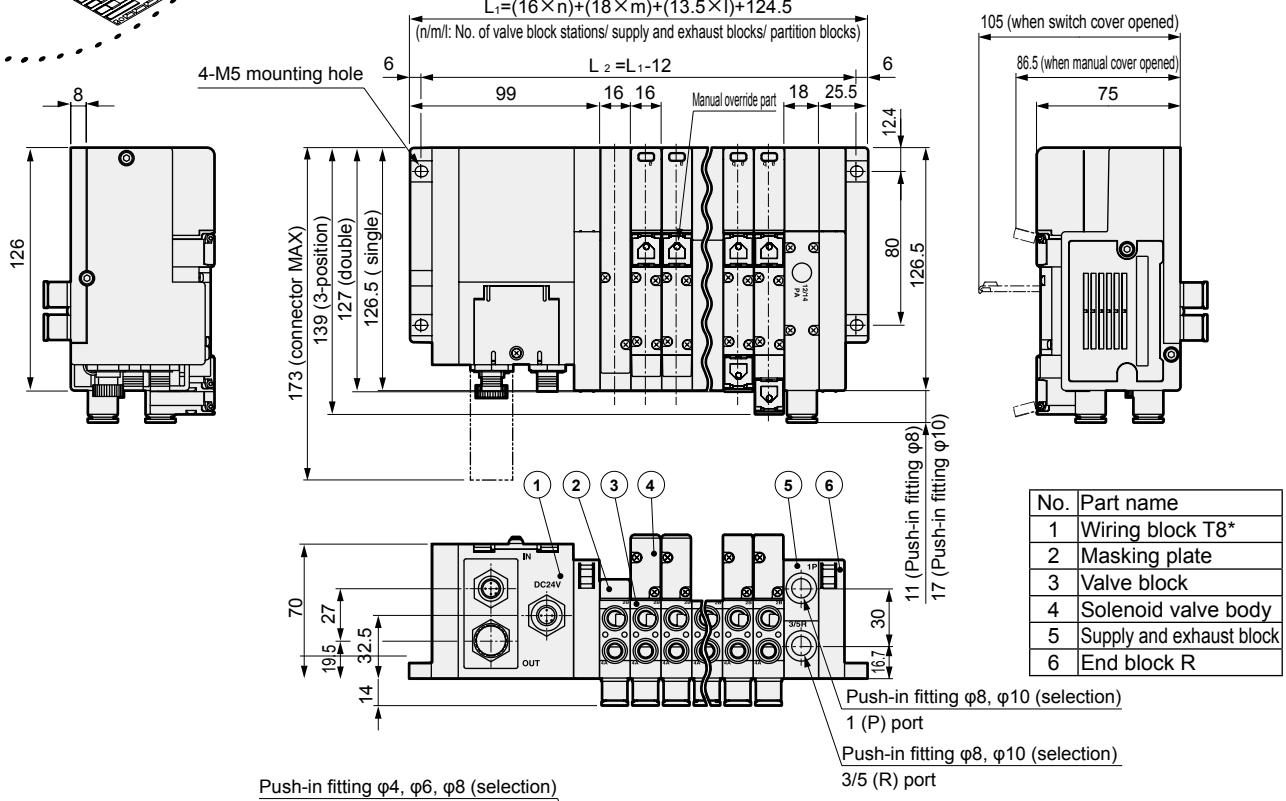


Dimensions CAD

MW4GZ2

● Serial transmission DeviceNet (T8D*)

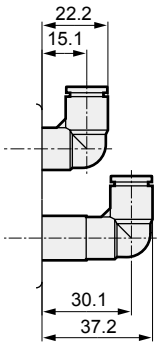




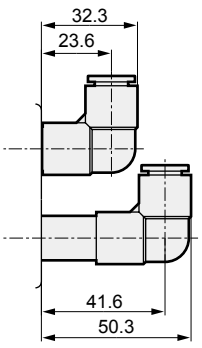
No.	Part name
1	Wiring block T8*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



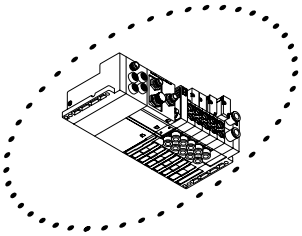
● φ10(CL10)

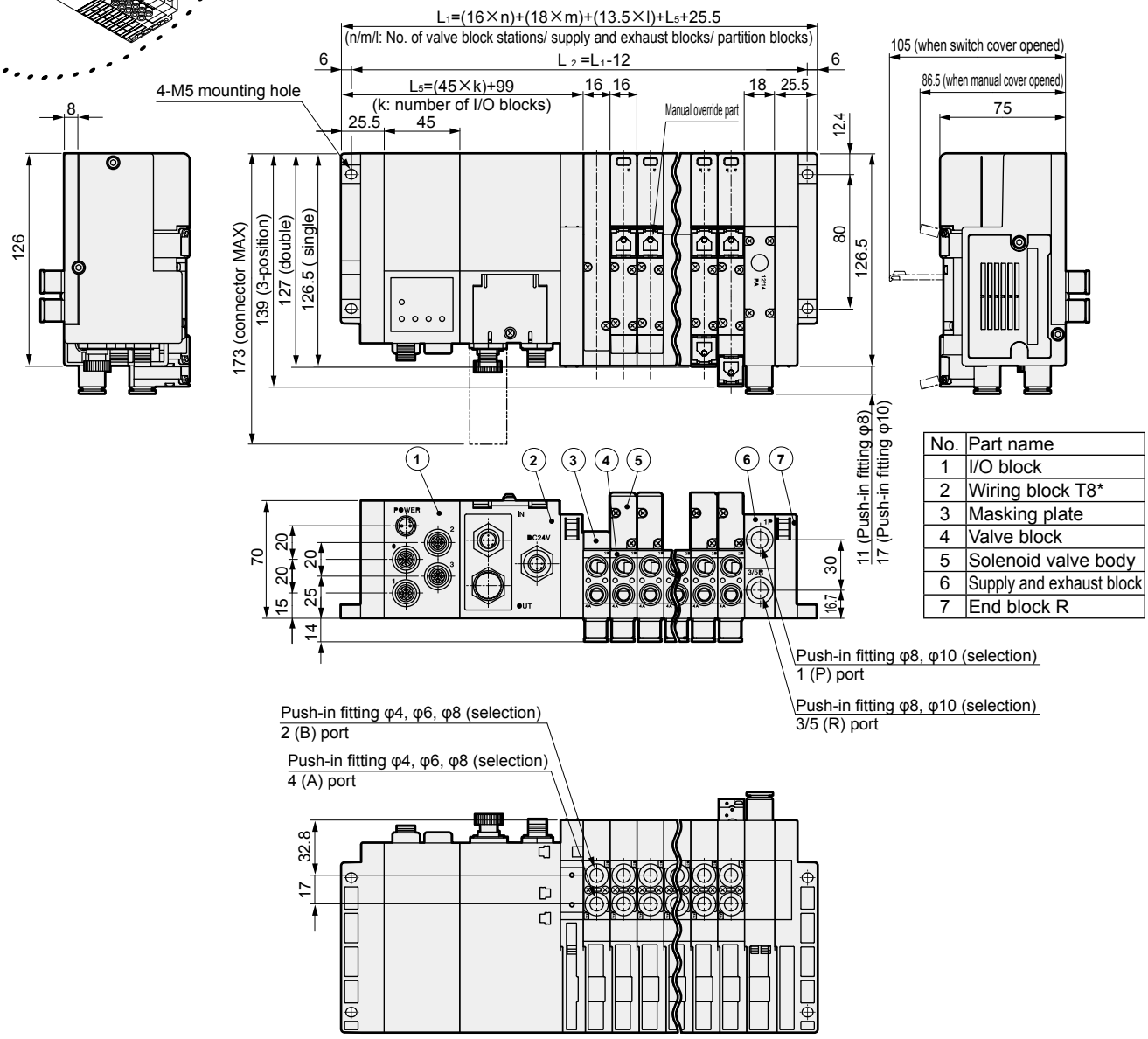


Dimensions CAD

MW4GZ2

● Serial transmission DeviceNet (T8D*) + I/O block

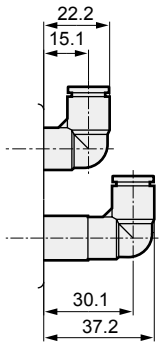




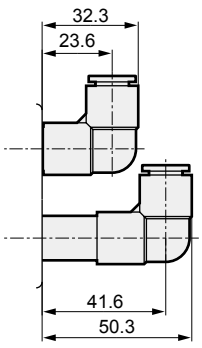
No.	Part name
1	I/O block
2	Wiring block T8*
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

● Radial push-in fitting for supply and exhaust block (upward)

● φ8(CL8)



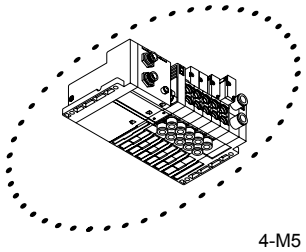
● φ10(CL10)

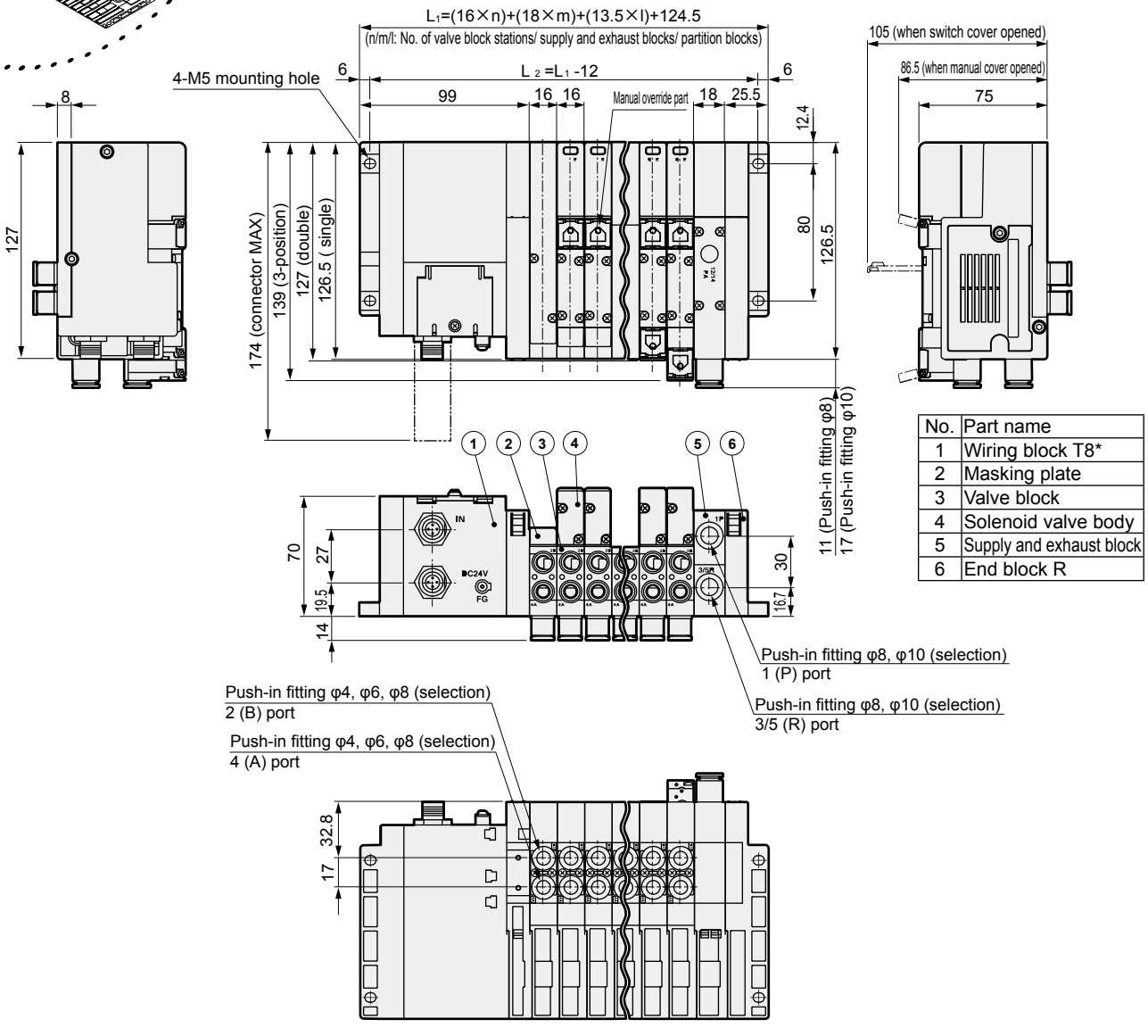


Dimensions CAD

MW4GZ2

- Serial transmission AS-i (T8M*)
- Serial transmission CompoBus/S (T8C*)

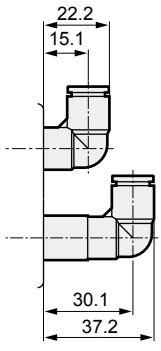




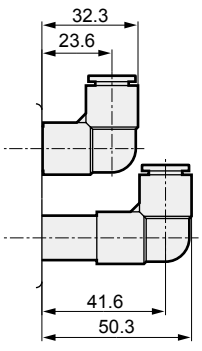
No.	Part name
1	Wiring block T8*
2	Masking plate
3	Valve block
4	Solenoid valve body
5	Supply and exhaust block
6	End block R

- Radial push-in fitting for supply and exhaust block (upward)

- φ8(CL8)



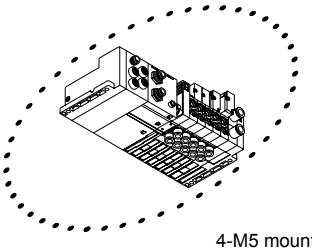
- φ10(CL10)

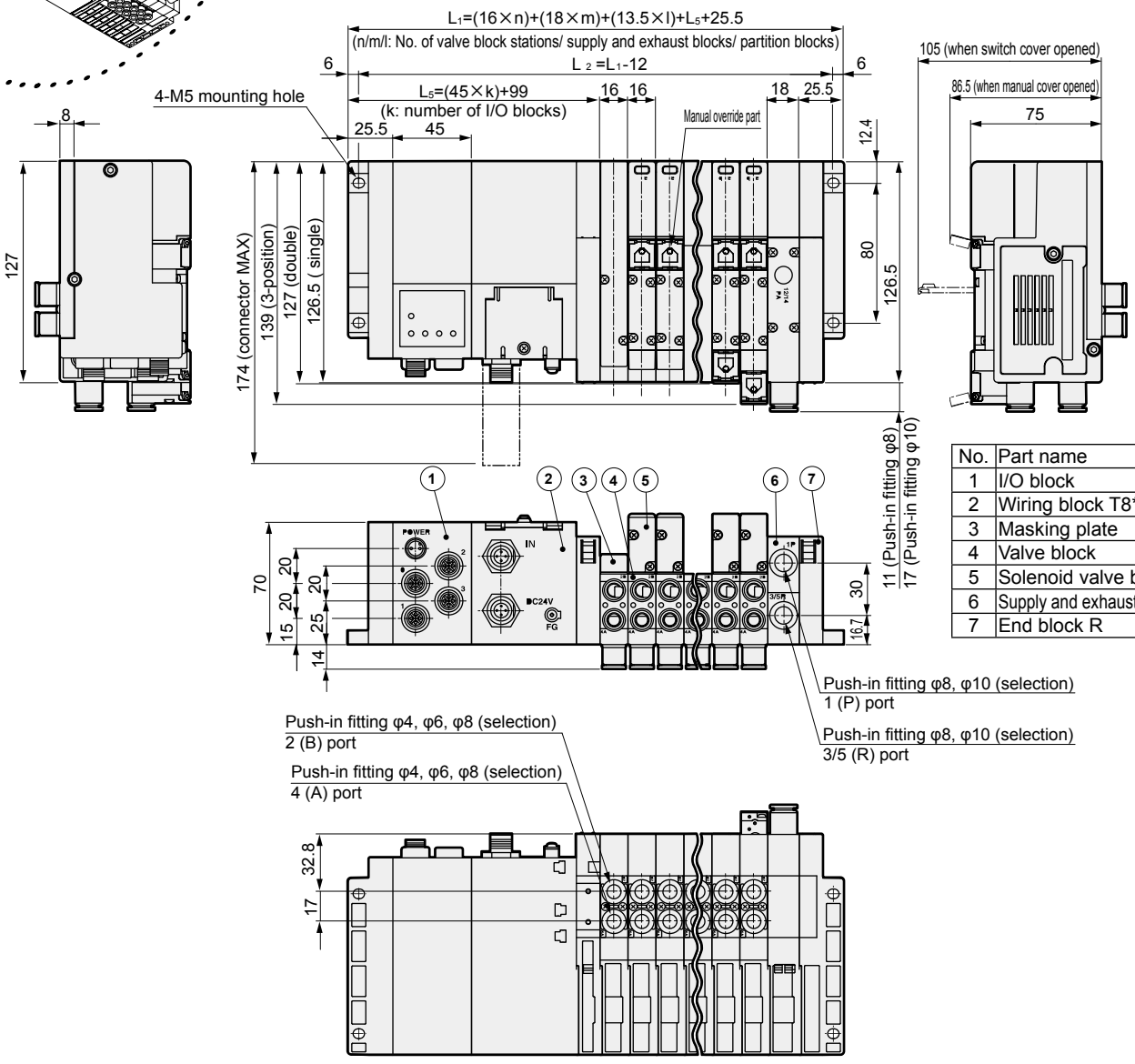


Dimensions CAD

MW4GZ2

- Serial transmission AS-i (T8M*) + I/O block
- Serial transmission CompoBus/S (T8C*) + I/O block

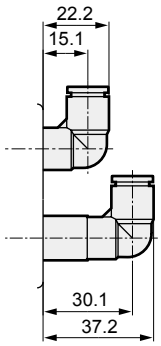




No.	Part name
1	I/O block
2	Wiring block T8*
3	Masking plate
4	Valve block
5	Solenoid valve body
6	Supply and exhaust block
7	End block R

- Radial push-in fitting for supply and exhaust block (upward)

- φ8(CL8)



- φ10(CL10)