4GA/B M4GA/B MN4GA/B 4GA/B (mastr) 4GD/E M4G MN4G 4GA4 MN3 MN4 W4G W4G 4TE 4L2 LMF MN3 MN4 4SA/ 4KA/B 4KA/B (mastr) 4F 4F (mastr) PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0EX 4F*0E HMV HSV 2QV 3QV SKH



Single unit Base piping W4GB2 Series

• Cylinder bore size: ϕ 20 to ϕ 80

Refer to the Ending for details.



Common specifications

GD/E	Descriptions	W4GB2					
GD/E	Valve and operation	Pilot operated soft spool valve					
	Working fluid	Compressed air					
.4/B4	Max. working pressure MPa	0.7 (≈100 psi, 7 bar)					
I3E	Min. working pressure MPa	0.2 (≈29 psi, 2 bar)					
14E	Proof pressure MPa	1.05 (≈150 psi, 10.5 bar)					
A/B2	Ambient temperature °C	-5 (23°F) to 55 (131°F) (no freezing)					
GB4	Fluid temperature °C	5 (41°F) to 55 (131°F)					
	Manual override	Non-locking/locking common (standard)					
В	Lubrication *1	Not required					
2-4/	Degree of protection *2	Dust proof/jet proof (IP65)					
F0	Vibration resistance m/s ²	49 or less					
3S0 4S0	Shock resistance m/s ²	294 or less					
A/B0	Atmosphere	Cannot be used in corrosive gas environments					
1.00	*1 : Use turbine oil Class 1 I	SO VG32 for lubrication.					

Electrical specifications

Description	s	W4GB2
Rated	DC	12, 24
voltage V	AC	100
Voltage fluctua	ation range	±10%
Holding	24 VDC	0.025
current A	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		В

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

Note that excessive lubricant may cause unstable operation.

*2 : Tested according to the test method for IP65 (IEC60529 (IEC529: 1989-11))

D

P

standards. Refer to page 995 for details.

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b

3-position all ports closed 4 2 (A)(B)

3-position A/B/R connection

3-position P/A/B connection

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JIS symbol

2-position single

4 2 (A)(B)

 ${5 \atop (R_1)(P)(R_2)} {5 \atop (R_1)(P)(R_2)}$

2-position double

 ${\substack{4 \ 2 \\ (A)(B)}}$

5 1 3 (R1)(P)(R2)

11

ттт

 $(R_1)(P)(R_2)$

 ${\substack{4 \ 2 \\ (A)(B)}}$

 $(R_1)(P)(R_2)$

4 2 (A)(B)

5 1 3 (R₁)(P)(R₂)

5-port valve

а

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а

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Individual specifications

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

Descriptions			ON	OFF
Response time	2-position	Single	22	24
ms	2-00310011	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.

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

Flow characteristics

Model	Sol	onoid nooition	P→	A/B	A/B→R		
No.	300	enoid position	C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b	
	2-positio	on	2.5	0.27	2.5	0.20	
W4GB2		All ports closed	2.3	0.32	2.1	0.21	
W4GD2	3-position	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 D 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



PCD

Silencer TotAirSys

(Total Air) TotAirSys

(Gamma) Ending

		Single va	alve: h	ase r	inina	
				· · ·	, ping	
How to order				sub-plate	ę	4GA/B
Single unit			i i	d-qr	valv	M4GA/B
(W4GB2)1)0-(08)-(R1)H)-(3)			Single unit	e sr	Discrete solenoid valve	
			Singl	Single : only)iscr oler	MN4GA/B
Single sub-plate only			0)	0 0	<u>с</u> s	4GA/B
W4GB2 - SP - 08 - R1 F					W4GB2	(mastr) 4GD/E
Discrete solenoid valve Sub-plate	Code	Content			Ž	M4GD/E
W4GB2 1 9 - 00 - H - 3		noid position				W4GD/E
	1	2-position single			•	MN4GD/E
A Solenoid	2	2-position double	•		•	4GA4/B4
position	3	3-position all ports closed	•		•	MN3E
	4	3-position ABR connection	•		•	MN4E
	5	3-position PAB connection	•		•	W4GA/B2
	B Port	size				
B Port size	08	Rc1/4				W4GB4
	G Electric	al connections (lamp and surge suppressor provided as s	tandard)			4TB
© Electrical connections	Blank	Terminal block (with cable clamp)			•	4L2-4/
For circuit diagrams (inside the solenoid valve),	R1	I/O connector (500 mm) (custom order)	•		•	LMF0
refer to page 868.	D Opti					MN3S0 MN4S0
DOption	Blank	No option	•		•	4SA/B0
	M	Non-locking manual override *1		•	•	
	M7	Manual override with OFF function *1			•	4KA/B
	н	With check valve *2	-		•	4KA/B (mastr)
	A	Ozone/coolant proof product	•		•	
	F	P/A/B port filter integrated	•			4F
	E Volta					4F (mastr)
Voltage	1	100 VAC (rectifier integrated)				PV5G
Precautions for model selection	3	24 VDC	•		•	GMF
*1 : Non-locking manual override (M) and manual override with	4	12 VDC	•		•	PV5 GMF
OFF function (M7) cannot be selected together.						PV5S-0
*2 : 3-position all ports closed and PAB connection are not provided with the check valve specifications (H).						3QR
For the exhaust check valve, refer to page 997.		Darta kit Na far tarminal black				3QB

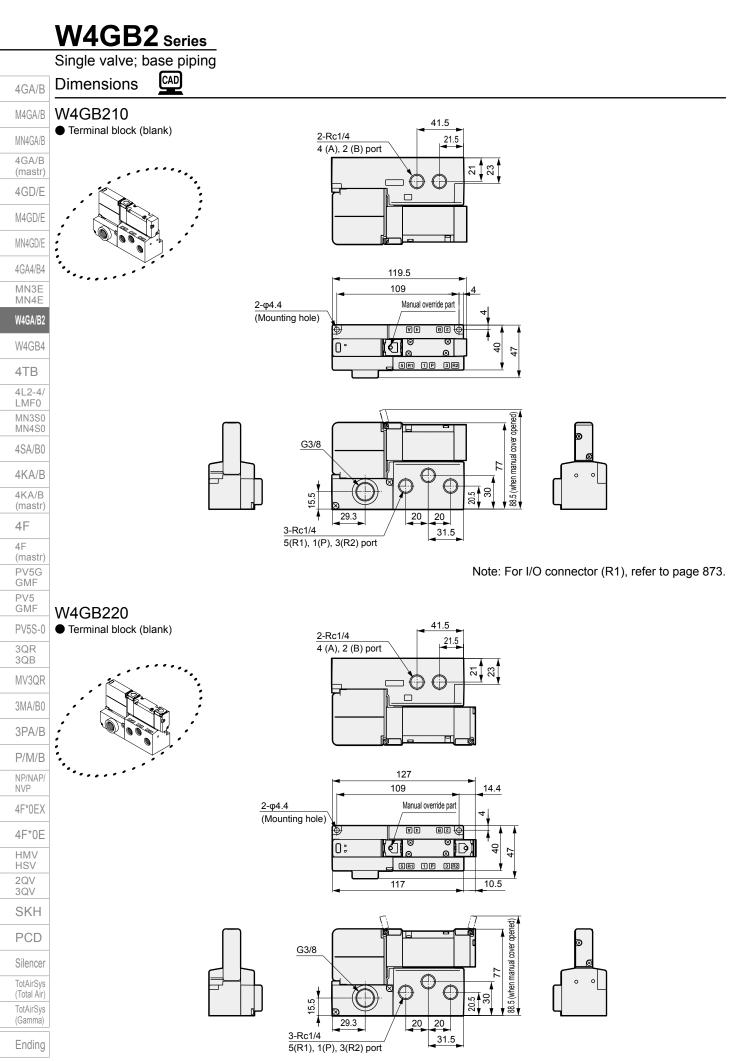
Electrical connections

Name	Terminal block	I/O connector
Code	Blank	R1
Shape Terminal array		2B Unused 0 4/A

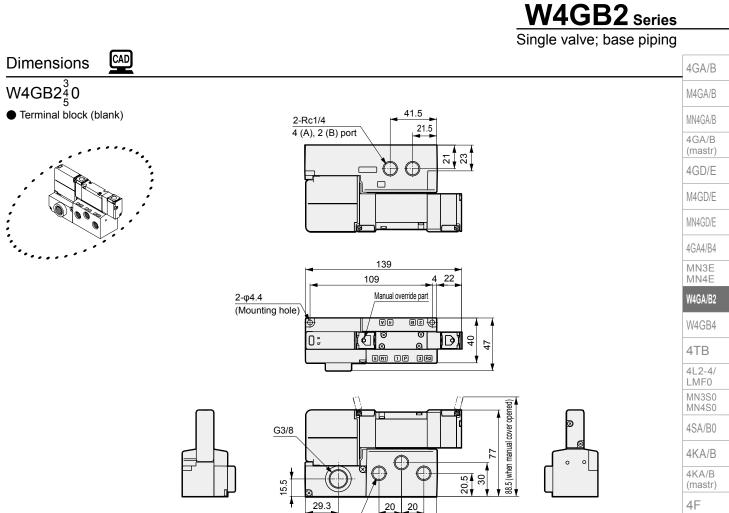
Parts kit No. for terminal block

 Cable clamp (with gasket) 									
Model No.	Content	3MA/B0							
W4G-BMS-038GP	Used to protect cables from dust and jetting water.	3PA/B							
		P/M/B							
Gasket		NP/NAP/ NVP							
		4F*0EX							
		4F*0E							
		HMV HSV							
max30.5 max40	Applicable cable O.D. φ5 to 10	2QV 3QV							
		SKH							
(Reference value) Body tightening to Cable clamp tighte	rque 2.0 to 2.5 N·m ening torque 1.5 to 2.0 N·m	PCD							
салс тат.р 1 9		Silencer							
		TotAirSys (Total Air)							
		TotAirSys (Gamma)							

W4GB2 Series



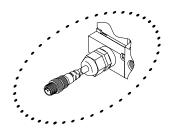
CKD

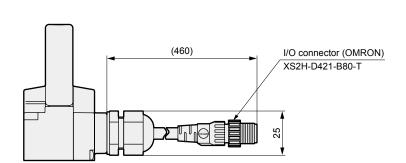


3-Rc1/4

5(R1), 1(P), 3(R2) port

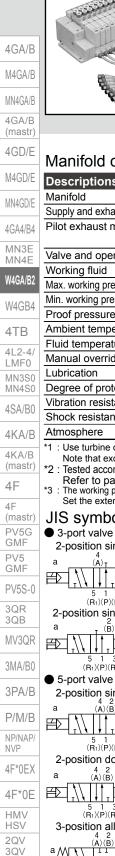
I/O connector (R1)





31.5

4F 4F (mastr) PV5G GMF PV5 GMF **PV5S-0** 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0EX 4F*0E HMV HSV 2QV 3QV SKH PCD Silencer TotAirSys (Total Air) TotAirSys (Gamma) Ending 873



JIS symbol

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SKH

PCD

Silencer

TotAirSys

(Total Air)

TotAirSys

(Gamma)

Ending

2-position single NC

 $(B_1)(P)(B_2)$

(B)

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b

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3-position all ports closed 4 2 (A) (<u>B</u>)

2-position single NO

(R1)(P)(R2) 5-port valve

(A)(B)

 $(R_1)(P)(R_2)$

4 2 (A)(B)

5 1 3 (R1)(P)(R2)

TIT

 $(\ddot{R_1})(\dot{P})(\ddot{R_2})$

4 2 (A)(B)

γ₁

(R1)(P)(R2)

4 2 (A)(B)

LT

τl т

 $(\mathbf{R}_1)(\mathbf{P})(\mathbf{R}_2)$ CKD

3-position A/B/R connection

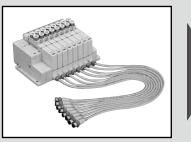
3-position P/A/B connection

T, A

2-position double

2-position single

7



Individual wiring manifold Body piping MW₄GA2-R1 Series

Cylinder bore size: φ20 to φ80



Manifold common specifications

-						
Ξ	Descriptions	MW3GA2/MW4GA2				
E	Manifold	Block manifold				
_	Supply and exhaust method	Common supply/common exhaust (with check valve built-in)				
4	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				
2	Max. working pressure MPa	0.7 (≈100 psi, 7 bar)				
Л	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)				
0	Lubrication *1	Not required				
0	Degree of protection *2	Dust proof/jet proof (IP65 or equivalent)				
0	Vibration resistance m/s ²	49 or less				
0	Shock resistance m/s ²	294 or less				
3	Atmosphere	Cannot be used in corrosive gas environments				

Electrical specifications

Descriptio	ns	MW3GA2/MW4GA2				
Rated voltage V	DC	12, 24				
Voltage fluct	uation range	±10%				
Holding	24 VDC	0.025				
current A	12 VDC	0.050				
Power consumption W	24 VDC	0.6				
*4	12 VDC	0.6				
Thermal clas	SS	В				

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

MW3GA2/MW4GA2

_	*1	:	Us	se	turl	bine	oil	Class	s	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. The working pressure range is 0 to 0.7 MPa when the external pilot (option code: K) is selected. *3 Set the external pilot pressure between 0.2 and 0.7 MPa.

Individual specifications

Descriptions		MW3GA2/MW4GA2
Max. stat	tion 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	
Descriptions	

Descriptions			ON	OFF
Response time	2-position	Single	22	24
ms		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	Model Solenoid position		P→	A/B	A/B→R		
No.	300	enoia position	C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b	
	2-position		2.2	0.35	1.7	0.25	
MW3GA2		All ports closed	2.0	0.36	2.2	0.21	
MW4GA2	3-position	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 \approx 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 (E) option "A" on page 875.

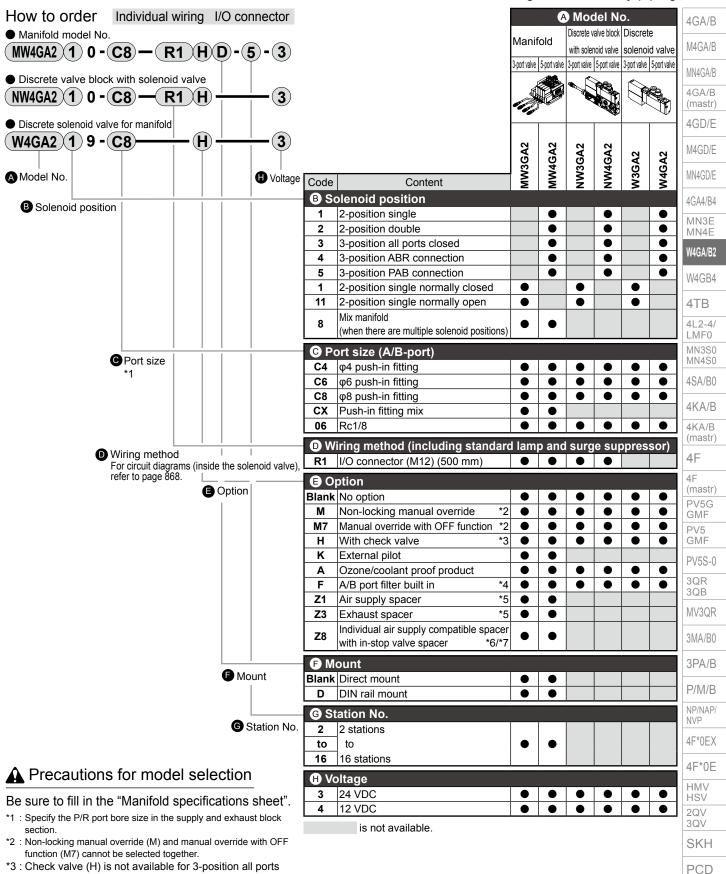
Specifications for rechargeable battery (Catalog No. CC-1226A)

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

** - Voltage -P40

MW³₄GA2-R1 Series

Individual wiring manifold; body piping



- *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).

Silencer

TotAirSvs

(Total Air)

TotAirSys

(Gamma)

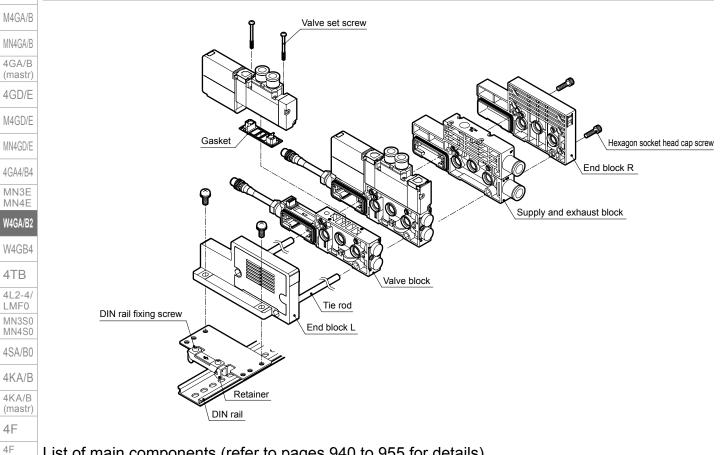
Ending

MW³₄GA2-R1 Series

4GA/B

Individual wiring manifold; body piping

Manifold components explanation and parts list



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

(mastr)	List of main components (refer to pages 940 to 955 for details)								
PV5G	No.	Component name	Model No. (example)	No.	Component name	Model No. (example)			
GMF	1	End block	NW4G2-EL	4	Discrete solenoid valve for manifold	W4GA219-C8-H-3			
PV5 GMF	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			
PV5S-0									

Weight (for DC)

3QR 3QE

NVP

SKH

3QB	NW4GA2					(g)
MV3QR	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
3MA/B0		NW3GA2110-*-R1*-*	220			
3PA/B		NW4GA210-*-R1*-*	225			
		NW4GA220-*-R1*-*	241			
P/M/B		NW4GA2 ³ / ₅ 0-*-R1*-*	248			

NP/NAP/ Common (g) Model No. Model No. Weight Part name Weight Part name 4F*0EX Supply and exhaust block NW4G2-Q-* 137 End block NW4G2-EL 91 NW4G2-QK-* 140 NW4G2-EXL 96 4F*0E NW4G2-QZ-* 137 W4G2-P(K)-* 60 Air supply spacer HMV NW4G2-QKZ-* 143 W4G2-R-*-* 60 Exhaust spacer HSV End block 183 NW4G2-ER 91 Spacer pilot check valve W4G2-PC-M 2QV 3QV NW4G2-EXR 96 Individual air supply compatible spacer with in-stop valve spacer W4G2-PIS-* 115

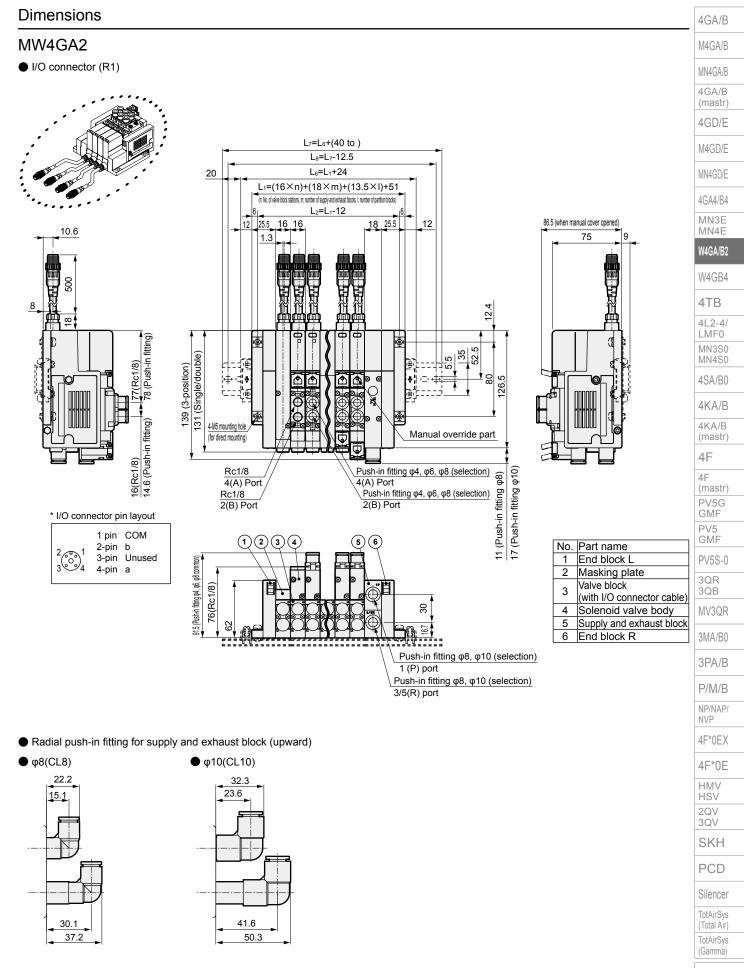
Repair parts and related parts list

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

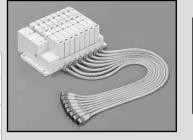
End

MW³₄GA2-R1 Series

Individual wiring manifold; body piping



Ending



Individual wiring manifold Base side piping/base bottom piping MW4G^B₂2-R1 Series

Cylinder bore size: φ20 to φ80



M4GB2

12, 24

±10%

0.025

0.050

0.6

0.6

В

Manifold common specifications

		!					
Descriptions		MW4GB2	MW4GZ2				
Manifold		Block manifold					
Supply and exhaust r	nethod	Common supply/common exh	aust (with check valve built-in)				
Pilot exhaust meth	od	Internal pilot Main valve/pilot valve commo	n exhaust (pilot exhaust check valve built-in)				
		External pilot Main valve/pilot val	ve individual exhaust				
Piping direction		Lateral direction from base	Downward from base				
2 Valve and operation	n	Pilot operated s	soft spool valve				
Working fluid		Compre	Compressed air				
Max. working pressur	e MPa	0.7 (≈100	psi, 7 bar)				
Min. working pressur	e MPa	0.2 (≈29 psi, 2 bar) *3					
Proof pressure	MPa	1.05 (≈150 psi, 10.5 bar)					
Ambient temperatu	ure °C		, , , , , , , , , , , , , , , , , , , ,				
Fluid temperature	°C	5 (41°F) to	55 (131°F)				
Manual override		Non-locking/locking	common (standard)				
0 Lubrication	*1	Not re	quired				
Degree of protection	on *2	Dust proof/jet proof	(IP65 or equivalent)				
Vibration resistance		49 or	less				
Shock resistance	m/s ²	294 o					
Atmosphere		Cannot be used in corro	osive gas environments				
*1 · Lloo turbino oil C	lace 1	SO VC22 for lubrigation					

*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.

: The working pressure range is 0 to 0.7 MPa when the external pilot (option code: K) is selected. *3 Set the external pilot pressure between 0.2 and 0.7 MPa.

Individual specifications

marriadal opeemeatorie						
Descript	ions	MW4GB2/MW4GZ2				
Max. statio	on 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.

Decerintiana			MW4GB2/MW4GZ2			
Descriptions			ON	OFF		
Response time	2-position	Single	22	24		
ms	2-position	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	Solenoid position		P→	A/B	A/B→R		
No.			C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b	
	2-positio	on	2.4	0.36	1.7	0.25	
MW4GB2		All ports closed	2.1	0.37	2.2	0.22	
MW4GZ2	3-position	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 \approx 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

Electrical specifications

24 VDC

12 VDC

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

A 12 VDC

Descriptions Rated voltage V DC

Holding

current

*4

Voltage fluctuation range

Power consumption W 24 VDC

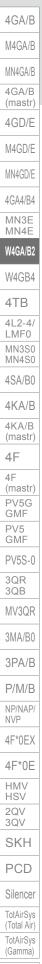
Thermal class

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



JIS symbol

2-position single 4 2 (A)(B)

2-position double

а

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5 1 3 (R₁)(P)(R₂)

4 2 (A)(B)

↓Î_

5 1 3 (R1)(P)(R2)

4 2 (A)(B)

11

(A)(B)

 $(R_1)(P)(R_2)$

4 2 (A)(B)

† †

 $(R_1)(P)(R_2)$

3-position P/A/B connection

ТТТТ $513 (R_1)(P)(R_2)$

3-position A/B/R connection

3-position all ports closed

b

MP

Ì

N

5-port valve

Ending

MW4G^B2-R1 series Individual wiring manifold; base side piping/base bottom piping

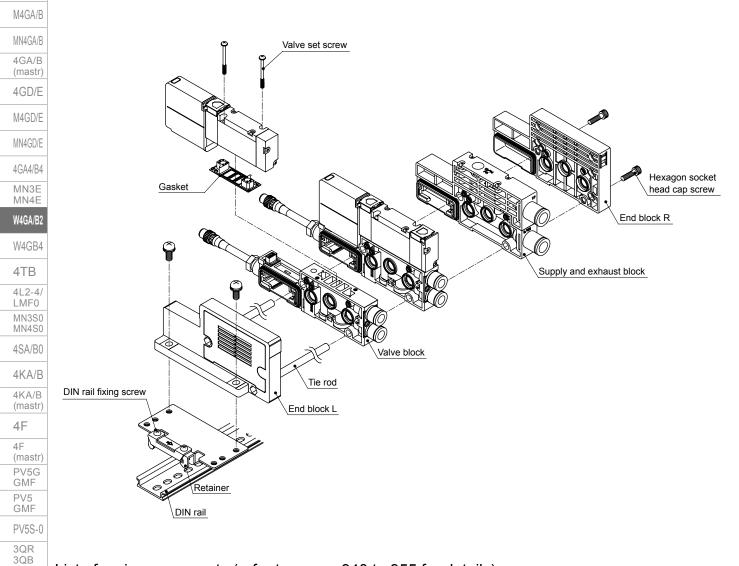
Llauria andra Indida		nuuai	winng manifold,	base side pipin	g/ba			<u> </u>	ping	
How to order Individe ■ Manifold model No.	ual wiring I/O connector					A N		NO. te valve	Discroto	4GA/B
MW4GB2 1 0 - C8 - (R1 H D - (5)-(3)				Man	ifold	block	k with id valve	solenoid valve	M4GA/B
MW4GZ2 1 0-C8 -					4					MN4GA/B
Discrete valve block with sole	enoid valve				STATE OF STATE					4GA/B (mastr)
(NW4GB2)1)0-(C8)-(R1H - 3							5		4GD/E
(NW4GZ2)(1)0-(C8)-(MW4GB2	MW4GZ2	NW4GB2	NW4GZ2	W4GB2	M4GD/E
Discrete solenoid valve for manifold	(common for NW4GB2/NW4GZ2 *1)				Š	Ň	ŇN	ŇN	V4	
(W4GB2)(1)9-(00)	$\frac{1}{1}$ (H) $\frac{1}{1}$ (3)	Code B S	Cor Cor	ntent						MN4GD/E
		1	2-position single							4GA4/B4
Model No.	U Voltage	2	2-position double 3-position all ports clo	asad	•	•	•	•	•	MN3E MN4E
B Solenoid position	Mount	4	3-position ABR conne		•	•	•	•	•	W4GA/B2
		5	3-position PAB conne	ection	•	•	•	•	•	
		8	Mix manifold (when there are multi	ple solenoid positions)	•	•				W4GB4
		C P	ort size (A/B-port)							4TB
Port size	Chatian Na	C4	φ4 push-in fitting							4L2-4/ LMF0
*2 *3	G Station No.	C6 C8	φ6 push-in fitting φ8 push-in fitting		•		•	•		MN3S0
		CL6	φ6 radial push-in fittir	ng (upward)	•		•			MN4S0
		CL8	φ8 radial push-in fittir	ng (upward)	•		•			4SA/B0
		CX Single, plug	Push-in fitting mix	B port	•					4KA/B
			φ4 push-in fitting		•					4KA/B
			φ6 push-in fitting	Plug	•	•	•	•		(mastr)
			C6NO Plug 🥨	φ4 push-in fitting	•		•	•		4F
	Option *4	C6NO		φ6 push-in fitting	•	•	•	•		4F (mastr)
		C8NO		φ8 push-in fitting	•	•	•	•		PV5G GMF
			φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward)	Plug	•		•			PV5
		CL6NO	Plug	φ6 radial push-in fitting (upward)			•			GMF
		CL8NO		φ8 radial push-in fitting (upward)						PV5S-0
_	ring method	- 0 W R1	iring method (inclu	(=00)		surge	e sup ∎ ●	press	sor)	3QR 3QB
	circuit diagrams (inside the enoid valve), refer to page 868		ption							MV3QR
		Blank	No option		•	•	•	•	•	3MA/B0
A Precautions for me	odel selection	M M7	Non-locking manual of Manual override with				•	•	•	
Be sure to fill in the "Manif	old specifications sheet".	Н	With check valve	*6	_	•	•	•	•	3PA/B
*1 : The W4GB2*9 discrete solenoid discrete valve block with soleno		K	External pilot	and durat	•	•				P/M/B
*2 : Plugs of ports A and B (*NC/*NC		A F	Ozone/coolant proof A/B port filter built in	product *7	í O	•	•	•	•	NP/NAP/
single only. Specify the P/R port bore size ir	the supply and exhaust block	Z 1	Air supply spacer	*4						NVP 4F*0EX
section. *3 : CL* radial push-in fitting (upwar	d) is available for the single and	Z3	Exhaust spacer Spacer pilot check va	*4						
double only. Long elbow is for A		Z6		*4/*8	•	•				4F*0E
mix (CX). If CL* NC/NO is select	ted, the fitting is a short elbow.	Z8	Individual air supply compatible	spacer with in-stop valve spacer		•				HMV HSV
*4 : Specify the spacer mounting manifold specifications sheet	g position and quantity in et. Stacking of spacers is not	G M	ount	*4/*8/*9	<u> </u>					2QV
possible.	C .		Direct mount							3QV
Combination with the maski Refer to pages 948 to 949 fo	or details.	D	DIN rail mount		٠					SKH
*5 : Non-locking manual override (M function (M7) cannot be selecte			tation No.		1					PCD
*6 : Check valve (H) is not avail	able for 3-position all ports	2 to	2 stations to							Silencer
closed and 3-position PAB of For the check valve, refer to		16	16 stations							TotAirSys
*7 : A filter is built into P-port.*8 : Not available when the fitting for	r port A/B is elbow.		oltage							(Total Air) TotAirSys
*9 : Not compatible with combination	-	3	24 VDC 12 VDC		•	•			•	(Gamma)
		_	is not available.						•	Ending

MW4G^B_Z2-R1 Series

4GA/B

Individual wiring manifold; base side piping/base bottom piping

Manifold components explanation and parts list



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

MV3QR	LISU					
INIVOQIA	No.	Component name	Model No. (example)	No.	Component name	Model No. (example)
3MA/B0	1	End block	NW4G2-EL	4	Discrete solenoid valve for manifold	W4GB219-00-H-3
3PA/B	2	Discrete valve block	NW4GB2-V-C8-R1	5	Supply and exhaust block	NW4G2-Q-10
JFA/D	3	Discrete valve block with solenoid valve	NW4GB220-C8-R1H-3	6	End block R	NW4G2-ER

Weight (for DC)

NP/NAP/ NVP	Weight (for DC) NW4GB2			NW4GZ2		(g)
4F*0EX	Part name	Model No.	Weight	Part name	Model No.	Weight
4F*0E	Valve block with solenoid valve	NW4GB210-*-R1*-*	216	Valve block with solenoid valve	NW4GZ210-*-R1*-*	216
		NW4GB220-*-R1*-*	232		NW4GZ220-*-R1*-*	231
HMV HSV		NW4GB2 ³ / ₅ 0-*-R1*-*	239		NW4GZ2 ³ / ₄ 0-*-R1*-*	238
2QV	Valve block with masking plate	NW4GB2-MP-C8-R1	152	Valve block with masking plate	NW4GZ2-MP-C8-R1	151
3QV SKH	COMMON					(g)
	Part name	Model No.	Weight	Part name	Model No.	Weight
PCD	Supply and exhaust block	NW4G2-Q-*	137	End block	NW4G2-EL	91
Silencer		NW4G2-QK-*	140		NW4G2-EXL	96
SIIEIICEI		NW4G2-QZ-*	137	Air supply spacer	W4G2-P(K)-*	60
TotAirSys (Total Air)		NW4G2-QKZ-*	143	Exhaust spacer	W4G2-R-*-*	60
TotAirSvs	End block	NW4G2-ER	91	Spacer pilot check valve	W4G2-PC-M	183
(Gamma)		NW4G2-EXR	96	Individual air supply compatible spacer with in-stop valve spacer	W4G2-PIS-*	115

Ending

P/M/B

MW46 2-R1 series Individual wiring manifold; base side piping/base bottom piping

Parts list

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

9	
	4GA/B
	M4GA/B
	MN4GA/B
	4GA/B (mastr)
	4GD/E
	M4GD/E
	MN4GD/E
	4GA4/B4
	MN3E MN4E
	W4GA/B2
	W4GB4
	4TB
	4L2-4/ LMF0
	MN3S0 MN4S0
	4SA/B0
	4KA/B
	4KA/B (mastr)
	4F
	4F (mastr)
	PV5G GMF
	PV5 GMF
	PV5S-0
	3QR 3QB
	MV3QR
	3MA/B0
	3PA/B
	P/M/B
	NP/NAP/ NVP
	4F*0EX
	4F*0E
	HMV HSV
	2QV 3QV
	SKH
	PCD
	Silencer
	TotAirSys (Total Air)
	TotAirSys (Gamma)
	Ending
8	81

CKD

MW4G^B_Z2-R1_{Series}

Individual wiring manifold; base side piping

Dimensions 4GA/B

MW4GB2 M4GA/B

MN4GA/B

MN3E

MN4E

4TB

LMF0

MN3S0

4F

4F

PV5G

GMF

PV5

GMF

3QR

3QB

NVP

4F*0EX

4F*0E

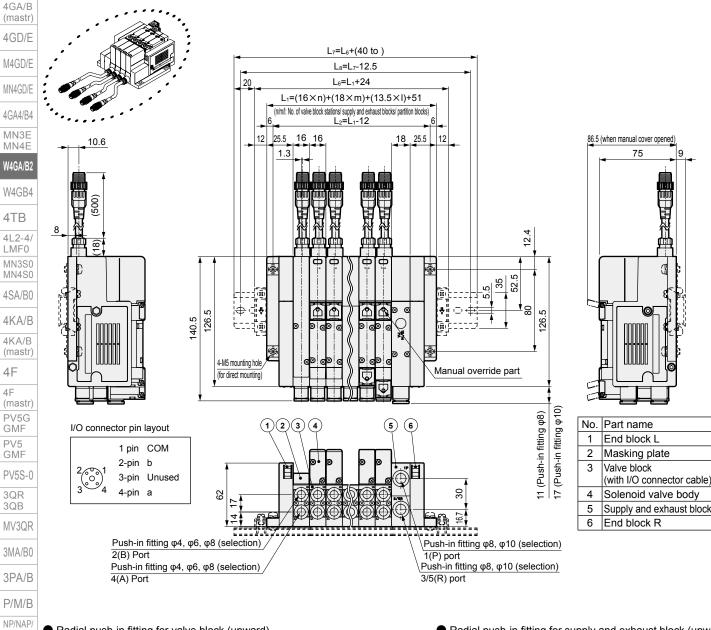
HMV

HSV

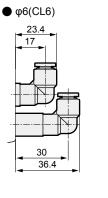
2QV 3QV SKH PCD Silencer

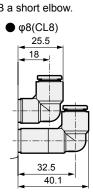
TotAirSys

(Total Air) TotAirSys (Gamma) Ending I/O connector (R1)

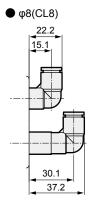


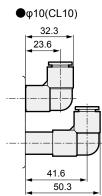
 Radial push-in fitting for valve block (upward) For single solenoid/double solenoid manifolds only. Port A is a long elbow and port B a short elbow.





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





CKD

MW4G^B_Z2-R1 Series

4GA/B

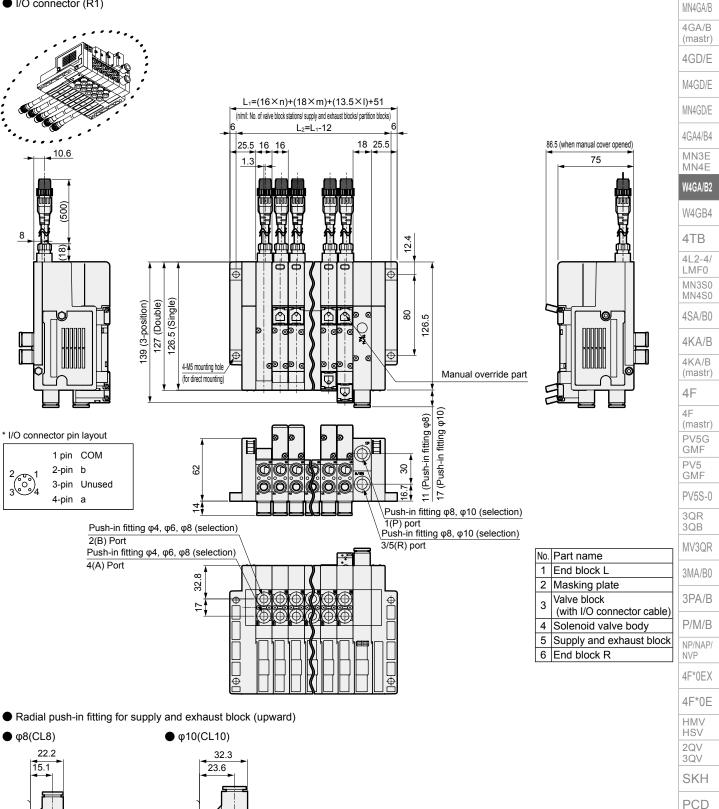
M4GA/B

Individual wiring manifold; base bottom piping



MW4GZ2

I/O connector (R1)

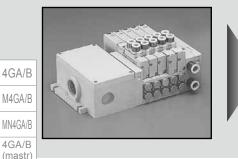






Ending

Silencer TotAirSys (Total Air) TotAirSys (Gamma)



Reduced wiring manifold Body piping MW₄GA2-T1/2/3/5/7/8 Series

Descriptions

Rated

voltage

Holding

current

Apparent power VA

Thermal class

VDC.

*5

*6

Cylinder bore size: φ20 to φ80

Refer to the Ending for details.

DC

VAC

Voltage fluctuation range

Power consumption W 24 VDC

Electrical specifications

24 VDC

100 VAC

12 VDC

100 VAC

are not available with 100 VAC.

A 12 VDC



MW3GA2/MW4GA2

12, 24

100

±10%

0.025

0.050

0.012

0.6

0.6

1.2

В

Manifold common specifications

		•
M4GD/E	Descriptions	MW3GA2/MW4GA2
	Manifold	Block manifold
MN4GD/E	Supply and exhaust method	Common supply/common exhaust (with check valve built-in)
4GA4/B4	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
MN3E	Piping direction	Valve top direction
MN4E	Valve and operation	Pilot operated soft spool valve
W4GA/B2	Working fluid	Compressed air
	Max. working pressure MPa	0.7 (≈100 psi, 7 bar)
W4GB4	Min. working pressure MPa	0.2 (≈29 psi, 2 bar) *4
470	Proof pressure MPa	1.05 (≈150 psi, 10.5 bar)
4TB	Ambient temperature °C	-5 (23°F) to 55 (131°F) (no freezing)
4L2-4/	Fluid temperature °C	5 (41°F) to 55 (131°F)
LMF0	Manual override	Non-locking/locking common (standard)
MN3S0	Lubrication *1	Not required
MN4S0	Degree of protection *2	Dust-proof/jet-proof (IP65) *3
4SA/B0	Vibration resistance m/s ²	49 or less
	Shock resistance m/s ²	294 or less
4KA/B	Atmosphere	Cannot be used in corrosive gas environments
4KA/B	*1 : Use turbine oil Class 1 IS	SO VG32 for lubrication. *3 : The degree of

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

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

*6: Multi-connector, D sub-connector and flat cable connector

Serial transmission is not available with 100 VAC and 12

code: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.

*2

(mastr) 3-port valve а (À

4GD/E

(mastr)

4F

4F

PV5G

GMF

P\/5

GMF

3QR

3QB

NVP

HMV

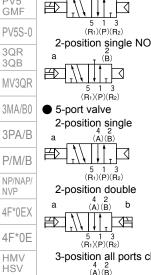
HSV

2QV

3QV

SKH

PCD



3-position all ports closed 4 2 (A)(B) 11 町 Ì TIT (B1)(P)(B2) 3-position A/B/R connection (A)(B)

5 | 3 (R1)(P)(R2)

(A)(B)

11

(R1)(P)(R2)

CKD

Б Silencer TotAirSys 3-position P/A/B connection (Total Air TotAirSys (Gamma) Ħ

JIS symbol 2-position single NC

 \Box

 4 (A	2)(B)	.g.c		
ļ	1 т			
5	1	3		

b

Μ Μ

Ĩ

MB

Note that excessive lubricant may cause unstable operation. Tested according to the test method for IP65 (IEC60529 (IEC529: 1989-11)) standards. Refer to page 995 for details. Individual specifications

			MW3GA2/MW4GA2													
Descriptions		T10	T20	Т30	T51	T53	T7EC	T7EC		T8G1 T8D1			T8MA	T8M6	T8C1	T8C6
Max.	Standard wiring	18	—	18	18	18	16	18	16	16	18	16	4	8	16	8
station No.	Double wiring	9	8	12	9	12	8	16	8	8	16	8	2	4	8	4
Max. numb	er 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						Pu	sh-in	sh-in fitting φ8, φ10							
For weigl	nt, refer to p	age 8	92.													
Decerir	tiona									M	W3G/	A2/M	W4G	A2		
Descrip										ON				OF	F	
Respons	e time	nooiti			Single				22				24			
ms 2-1		-positio	Dosition Double					26				_				
				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	Sal	onoid nooition	P→	A/B	A/B→R		
No.	300	enoid position	C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b	
	2-positio	on	2.2	0.35	1.7	0.25	
MW3GA2		All ports closed	2.0	0.36	2.2	0.21	
MW4GA2	3-position	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 G 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

Ending

Reduced wiring manifold; body piping

Reduced wiring specifications

Descriptions	T10	T20	Т30	T51	T53
Туре	Common			20-pin	26-pin
	terminal block	Multi-connector	D sub-connector	flat cable connector	flat cable connector
	M3 thread			without power supply terminal	without power supply terminal
Connector		Hirose Electric Co.,	D sub-connector		MIL-C-83503 standard
	—	Ltd., RM21WTP-20S,	(female)	compliant pressure welding socket	compliant pressure welding socket
		20 pins	25-pin	20-pin	26-pin

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

Doc	riptions	Slave uni	t dedicated for	Slave unit with I/O block					
Dest	Inpuons	T7EC1	T7EC2	T7ECP1	T7ECP2	T7ECB7	T7ECPB7		
Network n	ame		Ethe	rCAT		Ethe	EtherCAT		
Power supply	Unit side		24 VD0	C ±10%		24 VDC ±10%			
voltage	Valve side		24 VDC +	10%, -5%		24 VDC +10%, -5%			
Current	Unit side		110 mA	or less		110 mA or less (excluding input block current)			
consumption	Valve side		15 mA or less (exc	luding load current)		15 mA or less (excluding load current)			
Valve outp	out	NF	NPN		۱P	NPN	PNP		
Input/outp	ut 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						

	Network name	CC	C-Link(Ver1.	10)	DeviceNet *1			AS-i(V	/er2.0)
Descriptions Slave unit model No.		T8G1	T8G2	T8G7	T8D1	T8D2	T8D7	T8MA	T8M6
Communica	tion speed	156K/6	25K/2.5M/5M/	10Mbps	12	5K/250K/500K	ops	167ł	Kbps
Power supply	Unit side		24 VDC ±10%		24 VDC ±10%			30 VD	C ±2%
voltage Valve side		24	VDC +10%, -{	5%	24	VDC +10%, -	24 VDC +10%, -5%		
	Communication side				11 to 25 VDC			_	
Current	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
consumption	Valve side	15 mA or les	s (when all poi	nts 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	t		NPN			NPN		NF	PN
Input/output	point count	0/16	0/32	16/16	0/16	0/32	16/16	4/4 *3	8/8 *4
Occupied nu	Occupied number 1 station		2 bytes	4 bytes	4 bytes	1 station	2 stations		
Operation display Power supply/communication status/valve power s		valve power supply	Communicatio	on status/valve	power supply	Communication status/valve power supply			
Others —			For EDS	6 file, contact C	KD. *5	Profile:	7, F *6		

	letwork name	CompoBus/S				
Descriptions	Slave unit model No.	T8C1	T8C6			
Communica	tion speed	93.75K/7	750Kbps			
Power supply	Unit side	24 VDC ± 10% (commu	inication power supply)			
voltage	Valve side	24 VDC +	10%, -5%			
renage	Communication side					
Current	Unit side	50 mA or less *2 (communication power supply)				
consumption	Valve side	15 mA or less (when all points are OFF)				
concumption	Communication side	-	_			
Valve output	t	NF	٧N			
Input/output	point count	0/16	8/8			
Occupied nu	ımber					
Operation di	isplay	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.

MW³₄**GA2-T1**/2/3/5/7/8 series Reduced wiring manifold; body piping

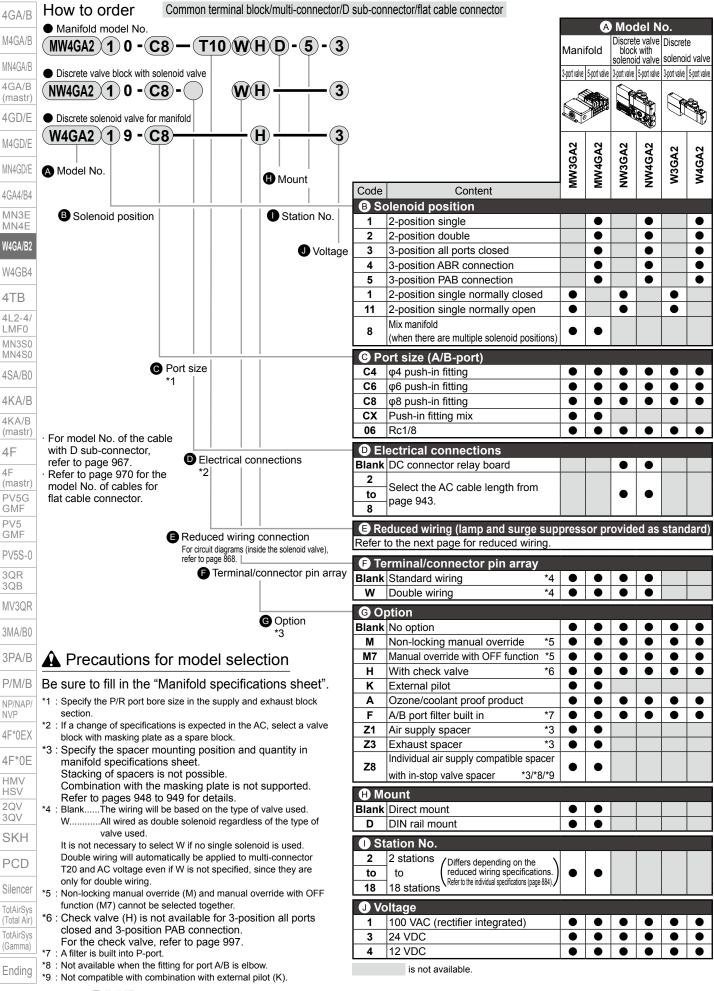
4GA/B I/O block specifications

4GA/B					
M4GA/B	 Input block Model No. 	NW4GA2-	NW4GA2-	NW4GA2-	NW4GA2-
	Descriptions	IN-N-K	IN-N-B	IN-P-K	IN-P-B
MN4GA/B	Number of inputs		4 pc		
4GA/B (mastr)	Rated input voltage			VDC	
4GD/E	Rated input current ON voltage	15 VDC or more (betwee		mA 15 VDC or more (betwee	n input terminals and G)
		5 VDC or less (between input t			
M4GD/E	Input	Sir	ık	Sou	rce
MN4GD/E	Supply power	Common with unit power supply	Externally supplied power	Common with unit power supply	Externally supplied power
4GA4/B4	Operation display	I	Power supply	/ y/input status	
MN3E	*1: Refer to page 948 for	model No.			
MN4E					
W4GA/B2	 Output block 				
W4GB4	Model No.				
VV4GD4	Descriptions	NW4GA2-		NW4GA2-	ООТ-Р-В
4TB	Output points Rated voltage		4 pc 24 \	pints	
4L2-4/ LMF0	Max. load current			3 A/common)	
MN3S0	Residual voltage		1.5 V	or less	
MN4S0	Output	Sir		Sou	rce
4SA/B0	Protection circuit Fuse	Pow		erse connection protection 4 VDC and 5 A (can be replac	ed)
4KA/B	Operation display	1.00		/output status	
4KA/B	*1: Refer to page 948 for	model No.		•	
(mastr)					
4F					
4F					
(mastr) PV5G					
GMF					
PV5 GMF					
PV5S-0					
3QR					
3QB					
MV3QR					
3MA/B0					
3PA/B					
P/M/B					
NP/NAP/					
NVP					
4F*0EX					
4F*0E					
HMV HSV					
2QV					
3QV					
SKH					
PCD					
Silencer					
TotAirSys (Total Air)					
TotAirSys					
(Gamma)					
Ending					
88	6 CKD				
00					

age 948 for r	nodel No.	
ck		
ıs	NW4GA2-ONT-N-B	NW4GA2-OUT-P-B
	4 pc	ints
9	24 \	/DC
rent	1 A/1 point (3	3 A/common)
age	1.5 V (or less
	Sink	Source
cuit	Overcurrent protection/rev	erse connection protection
	Power supply for external load: 2	4 VDC and 5 A (can be replaced)
play	Power supply	/output status

4GA/B

Reduced wiring manifold; body piping



MW³₄GA2-T1/2/3/5 series Reduced wiring manifold; body piping

[Reduced wiring list]

			A	Moo	del No	ο.	
		Manifold		Discrete valve block with solenoid valve		2.00.000	
		A subjective	•				
		3-port valve	5-port valve	3-port valve	5-port valve	3-port valve	5-port valve
		MW3GA2	MW4GA2	NW3GA2	NW4GA2	W3GA2	W4GA2
E Re	educed wiring (lamp and surge su	ppres	sor p	rovid	ed as	stand	dard)
T10	Common terminal block (M3 screw) Left-sided spec.	•	٠				
T20	Multi-connector Left-sided spec. *10		۲				
T30	D sub-connector Left-sided spec. *10	\bullet	۲				
T51	20-pin flat cable connector (no power terminal) Left-sided spec. *10		۲				
T53	26-pin flat cable connector (no power terminal) Left-sided spec. *10		٠				

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

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

MW³₄**GA2-T7/T8** series Reduced wiring manifold; body piping

	Reduced wiring manifold; body piping								
4GA/B	How to order Serial transmission								
M4GA/B	Manifold model No.				A	Moc Discret			
	(MW4GA2) 1 0 - C8 - T8G1 W H D - 5 - 3			Mar	nifold	block	with	solenoid	
MN4GA/B	Discrete valve block with solenoid valve			3-port valve	5-port valve				
4GA/B (mastr)	$(\underline{NW4GA2}) 1 0 - (\underline{C8}) - (\underline{W}) + (\underline{W}) + (\underline{W}) - (\underline{C8}) - (\underline{W}) + (\underline{W}) + (\underline{W}) + (\underline{C8}) - (\underline{W}) + (\underline{C8}) + ($						8	\bigcirc	<u>_</u>
4GD/E	Discrete solenoid valve for manifold							A	
M4GD/E	(W4GA2)19-C8						~		
				MW3GA2	MW4GA2	NW3GA2	NW4GA2	W3GA2	W4GA2
MN4GD/E	Model No.			MM3	1W4	NW3	W4	M30	W40
4GA4/B4		Code	Content	-		_	_		
MN3E MN4E	Solenoid position		Denoid position 2-position single						
W4GA/B2	Station No.	2	2-position double		•		•		•
		3	3-position all ports closed 3-position ABR connection				•		
W4GB4	• Voltage	5	3-position PAB connection		•		•		•
4TB		-	2-position single normally closed	•		•		•	
4L2-4/			2-position single normally open Mix manifold	•		•		•	
LMF0 MN3S0		8	(when there are multiple solenoid positions)						
MN4S0	Port size		ort size (A/B-port)	1					
4SA/B0			φ4 push-in fitting φ6 Push-in fitting	•	•	•	•	•	•
4KA/B			φ8 Push-in fitting	•	•	•	•	•	•
4KA/B			Push-in fitting mix	٠	٠				
(mastr)			Rc1/8	•	•	<u> </u>	•	•	
4F	D Electrical connections		ectrical connections DC connector relay board			•			
4F (mastr)			duced wiring (lamp and surge sup	press	sor pr	ovide	d as	stand	lard)
PV5G GMF	Reduced wiring connection For circuit diagrams (inside the solenoid valve),		to the next page for reduced wiring.						
PV5	refer to page 868.		rminal/connector pin array Standard wiring *3						
GMF	array		Double wiring *3	•	•	•	•		
PV5S-0		G 0	otion						
3QR 3QB	G Option *2		No option	•	•	•	•	•	•
MV3QR		M7	Non-locking manual override *4 Manual override with OFF function *4	•	•	•	•	•	-
3MA/B0		Н	With check valve *5	•	•	•	•	•	•
	A Precautions for model selection	K	External pilot Ozone/coolant proof product	•	•	•	•	•	•
3PA/B			A/B port filter built in *6	•	•	•	•	•	•
P/M/B	Be sure to fill in the "Manifold specifications sheet". *1 : Specify the P/R port bore size in the supply and exhaust block		I/O block *7 / In **, enter the number of the desired I/O	-	-				
NP/NAP/ NVP	section.	Y**	block combination from Table 1 on the next page [I/O block combination table].						
4F*0EX	*2 : Specify the spacer mounting position and quantity in manifold specifications sheet.	Z1	Air supply spacer *2	•	•				
	Stacking of spacers is not possible. Combination with the masking plate is not supported.	Z3	Exhaust spacer *2	•	•				
4F*0E	Refer to pages 948 to 949 for details. *3 : BlankThe wiring will be based on the type of valve used.	Z 8	Individual air supply compatible spacer with in-stop valve spacer *2/*8/*9	•					
HMV HSV	WAll wired as double solenoid regardless of the type of	H M	ount						
2QV 3QV	valve used. It is not necessary to select W		Direct mount	•	•				
SKH	if no single solenoid is used. *4 : Non-locking manual override (M) and manual override with OFF	D	DIN rail mount	-					
	function (M7) cannot be selected together.		ation No. 2 stations						
PCD	*5 : Check valve (H) is not available for 3-position all ports closed and 3-position PAB connection.	to	to (primers depending on the reduced writing specifications. Defects the individual exection (news 00/)	•	•				
Silencer	For the exhaust check valve, refer to page 997. *6 : A filter is built into P-port.	16	TO STATIONS						
TotAirSys (Total Air)	*7 : Select the I/O type (sink/source) of I/O block and the power supply (shared with slave unit/external) in the		ltage 24 VDC *10						
TotAirSys	manifold specifications sheet (page 991).		is not available.				-	-	<u> </u>
(Gamma)									
(Gainina)	 *8 : Not available when the fitting for port A/B is elbow. *9 : Not compatible with combination with external pilot (K). 								
Ending									

890 **CKD**

MW³₄GA2-T7/T8 series Reduced wiring manifold; body piping

[Reduced wiring list]

-	. .			A	Mod		0	
				U U			Discret	۵
			Man	ifold	l block	(with		
							solenoi	
			3-port valve	5-port valve	3-port valve	5-port valve	3-port valve	5-port valve
			MW3GA2	MW4GA2	NW3GA2	NW4GA2	W3GA2	W4GA2
E Reduced	wiring (lamp and	d surge suppress	or pr	ovide	ed as	stan	dard)	
T7EC1		16 point output (NPN valve output)	•	•				
T7ECP1	1	16 point output (PNP valve output)	•	•				
T7EC2	Thin	32 point output (NPN valve output)		•				
T7ECP2	EtherCAT	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		16 point output						
T8G2	CC-Link	32 point output	•					
T8G7	CC-Link 3	16 point input/16 point output						
T8C1	0	16 point output	•	•				
T8C6	CompoBus/S	8 point input/8 point output						
T8D1		16 point output	•					
T8D2	DeviceNet	32 point output						
T8D7		16 point input/16 point output						
T8MA		4 point input/4 point output	-					
T8M6	AS-i	8 point input/8 point output		●				

Table 1 [I/O block combination table] Τ7

17									
Code	Layou	ayout of I/O blocks and station No.							
Y10						IN			
Y20					IN	IN			
Y30				IN	IN	IN	<u>م</u>		
Y40			IN	IN	IN	IN	side		
Y11					OUT	IN	농		
Y21				OUT	IN	IN	이 이 이		
Y31			OUT	IN	IN	IN	b D		
Y41		OUT	IN	IN	IN	IN	Wiring block side		
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.

Т8

							_
Code	Layou	ut of I/	O bloc	ks and	l static	on No.	
Y10						IN	
Y20					IN	IN	
Y30				IN	IN	IN	
Y40			IN	IN	IN	IN	
Y01						OUT	a)
Y02					OUT	OUT	side
Y03				OUT	OUT	OUT	š
Y04			OUT	OUT	OUT	OUT	plo
Y11					OUT	IN	bu
Y21				OUT	IN	IN	Wiring block side
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	

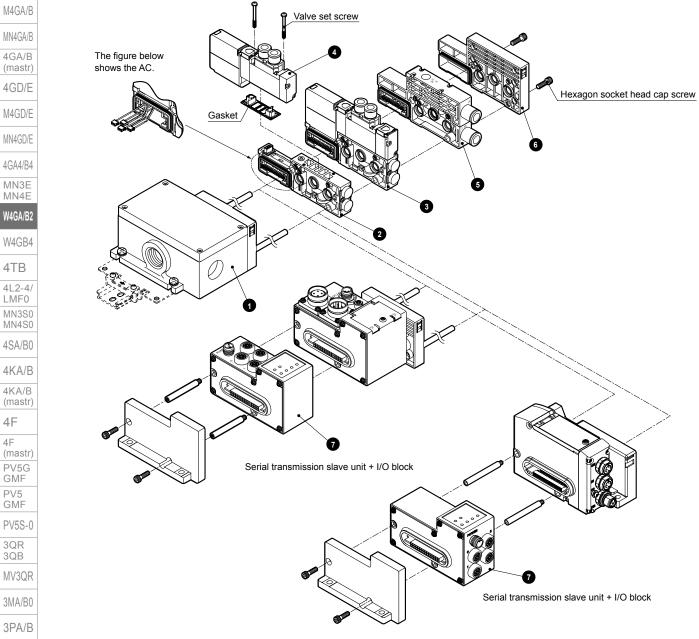
	4GA/B (mastr)
	4GD/E
	M4GD/E
	MN4GD/E
	4GA4/B4
	MN3E MN4E
	W4GA/B2
	W4GB4
	4TB
	4L2-4/ LMF0
	MN3S0 MN4S0
	4SA/B0
	4KA/B
	4KA/B (mastr)
	4F
	4F (mastr)
	PV5G GMF
	PV5 GMF
	PV5S-0
	3QR 3QB
	MV3QR
	3MA/B0
	3PA/B
	P/M/B
	NP/NAP/ NVP
	4F*0EX
	4F*0E
	HMV HSV
	2QV 3QV
	SKH
	PCD
	Silencer
	TotAirSys (Total Air)
	TotAirSys (Gamma)
	Ending
89	91

4GA/B

M4GA/B MN4GA/B

Reduced wiring manifold; body piping

Manifold components explanation and parts list



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

					-	
Х	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			Block		Weight
	Valve block with solenoid valve	NW3GA210-*-*-*	181	Valve block with masking plate	NW4GA2-MP ^S	102
cer		NW3GA2110-*-*-*	181	Wiring block (serial transmission slave unit)	NW4GA2-T8*	430
Sys		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
- T		NW4GA2 ³ ₅ 0-*-*-*	209	I/O block (serial transmission slave unit)	NW4GB2-IN/OUT-N/P-K/B (Note	220
rSys Air) rSys ma)		NW4GA210-*-*-* NW4GA220-*-*-* NW4GA2 ³ 40-*-*-*	186 202 209	I/O block (serial transmission slave unit) Wiring block (serial transmission slave unit)	NW4GA2-IN/OUT-N/P-K/B NW4G2-T7* NW4GB2-IN/OUT-N/P-K/B (Note	22 28 22

4GA/B

Ending

892

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-).

Reduced wiring manifold; body piping

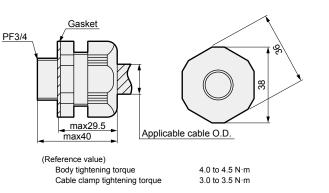
COMMON					(g)	101/0
Block		Weight	Block		Weight	4GA/B
Supply and exhaust block	NW4G2-Q-*	137		NW4G2-T10	423	M4GA/B
	NW4G2-QK-*	140		NW4G2-T20	490	
	NW4G2-QZ-*	137	Wiring block	NW4G2-T30	370	MN4GA/B
	NW4G2-QKZ-*	143		NW4G2-T5*	367	4GA/B
End block	NW4G2-ER	91	Air supply spacer	W4G2-P(K)-*	60	(mastr)
	NW4G2-EXR	96	Exhaust spacer	W4G2-R-*-*	60	4GD/E
			Spacer pilot check valve	W4G2-PC-M	183	M4GD/E
			Individual air supply compatible spacer with in-stop valve spacer	W4G2-PIS-*	115	WHOD/L

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	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		
block	Cartridge fitting φ8 long elbow	N4G2-Q-JOINT-8LL		
P, R port	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 avecuat black part DA	Cartridge fitting φ6 straight	N4G-QK-JOINT-6		
Supply and exhaust block port PA	Cartridge fitting $\phi 6$ 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
W4G-SCL-18B	φ16.5 to 18.5	water.



Parts for I/O block

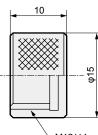
\bullet	Waterproof	cap
-----------	------------	-----

(reference value)

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.	



Tightening torque 0.4 to 0.5 $\textrm{N}{\cdot}\textrm{m}$







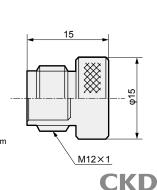
Waterproof plug

Content

Model No.

W4G-XSZ-12

(reference value) Tightening torque 0.4 to 0.5 $N{\cdot}m$



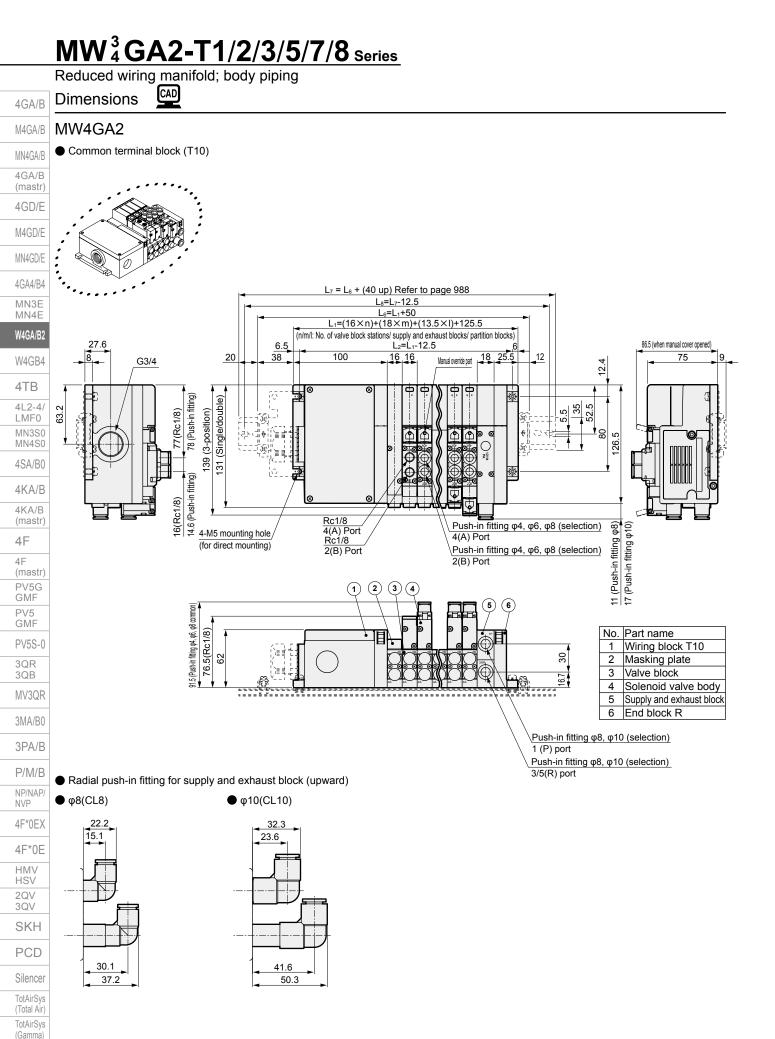
Provides jet-proof protection of unused signal connectors.

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

(Gamma) Ending

(Total Air) TotAirSys

PCD Silencer TotAirSys



Ending

894

CKD

Reduced wiring manifold; body piping

4GA/B

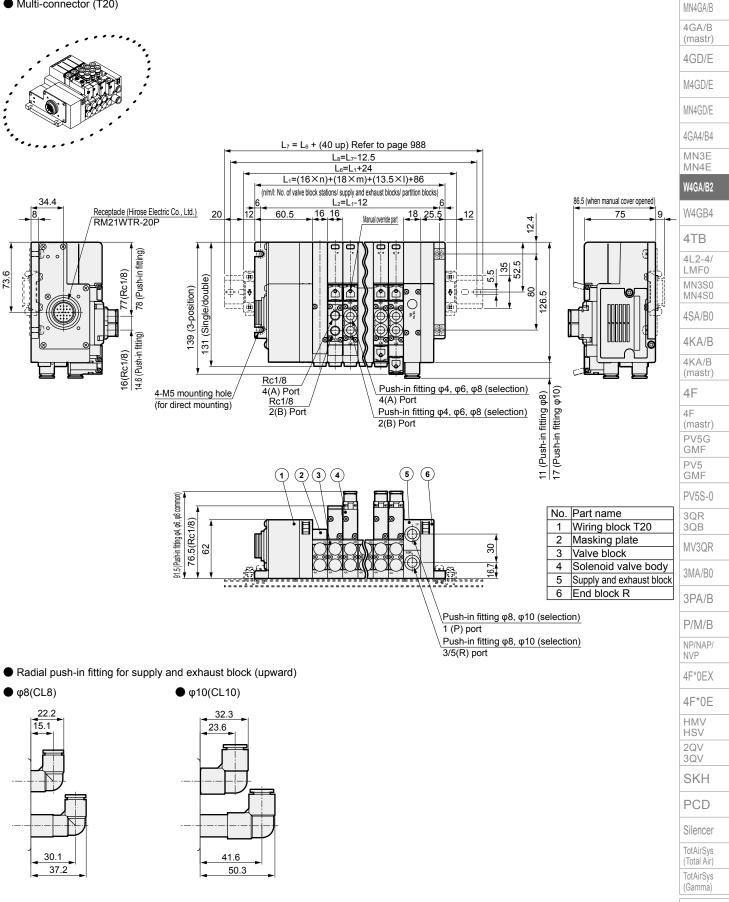
M4GA/B

Dimensions

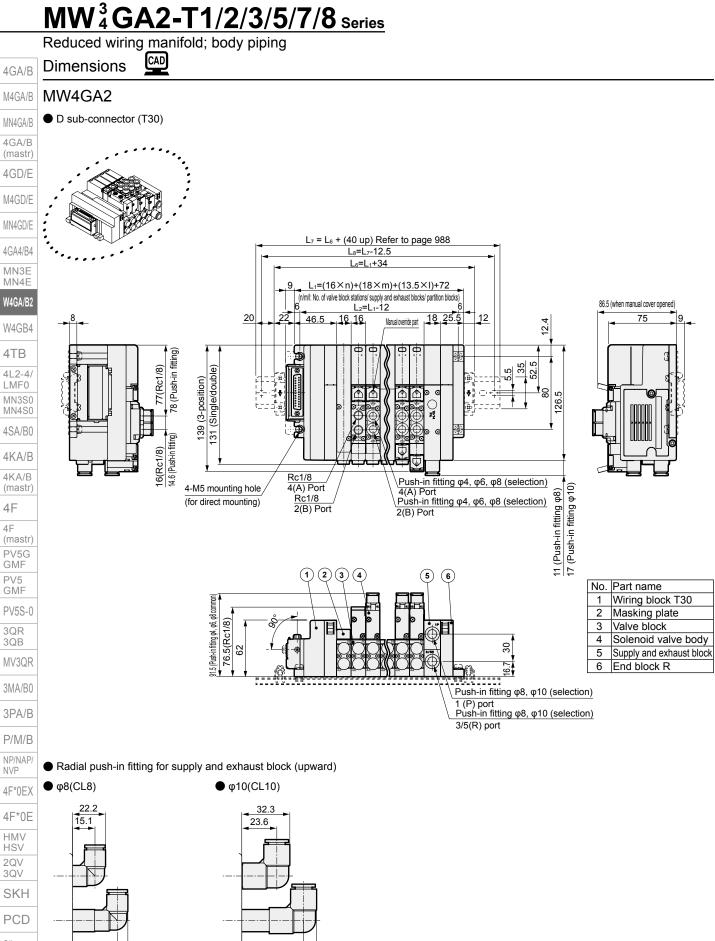
CAD



Multi-connector (T20)



Ending



PCD Silencer TotAirSys (Total Air) TotAirSys

4F

Ending

(Gamma)

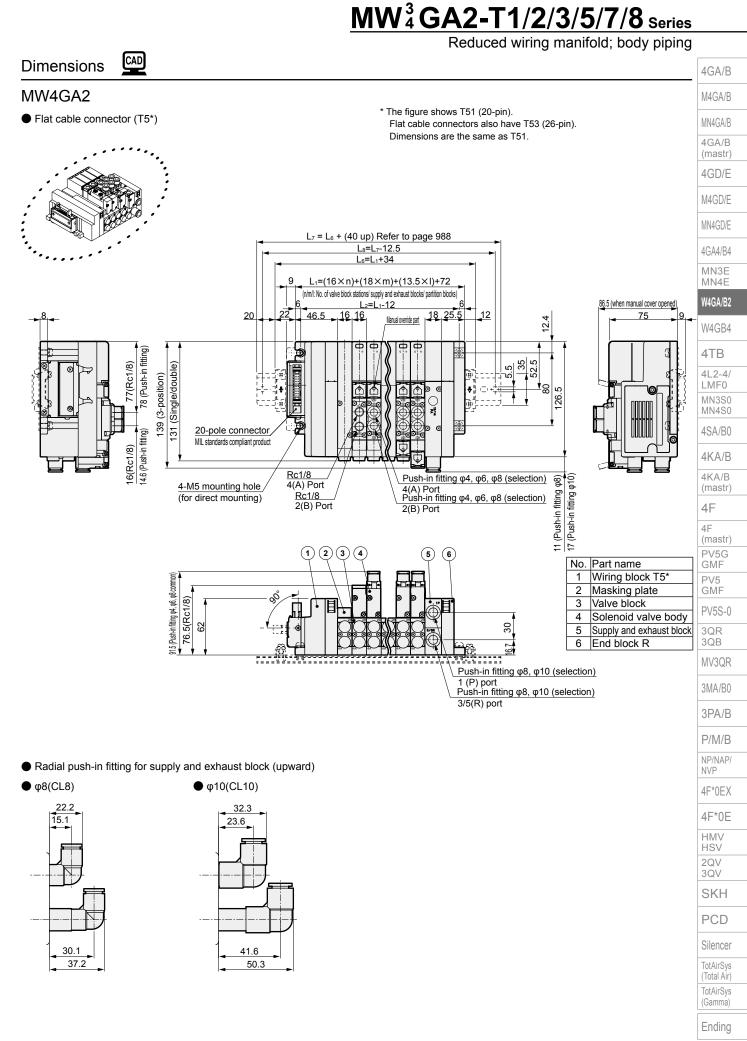
CKD

30.1

37.2

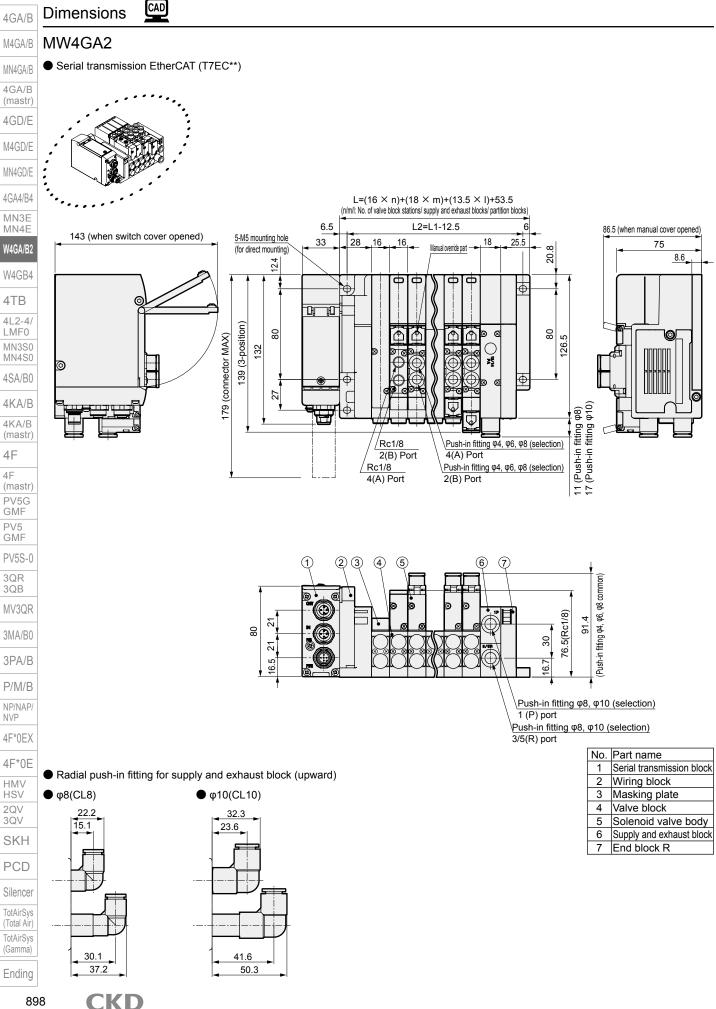
41.6

50.3

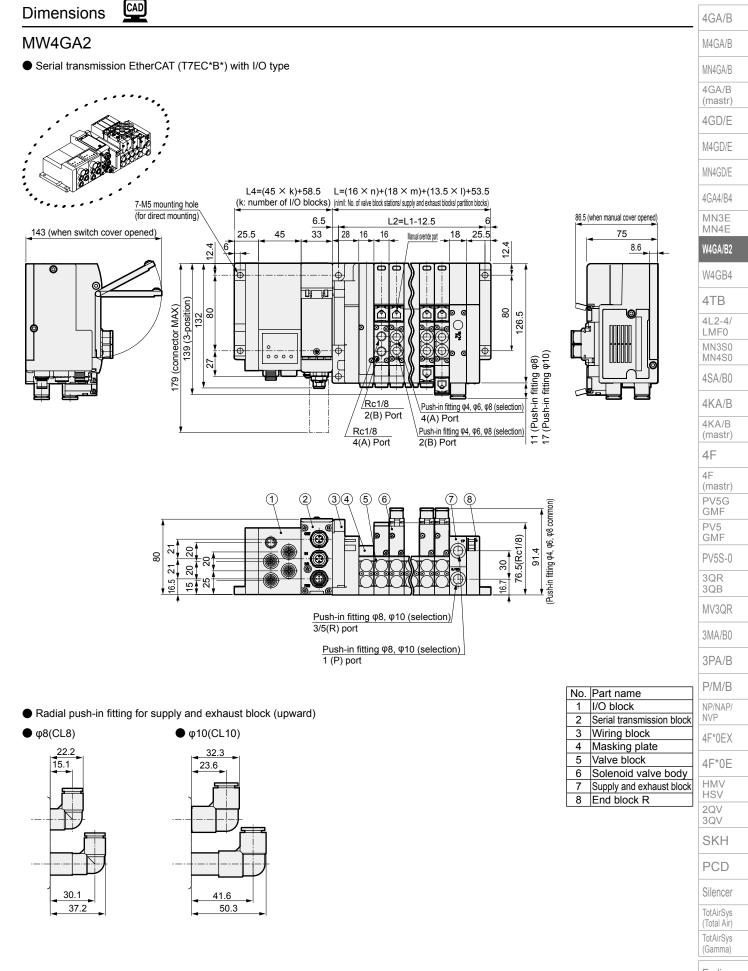


CKD

Reduced wiring manifold; body piping



Reduced wiring manifold; body piping



CKD

Reduced wiring manifold; body piping CAD

MW4GA2 M4GA/B

4GA/B

MN4GA/B 4GA/B

MN3E

4TB

LMF0

4F 4F

PV5G

GMF

PV5

GMF

3QR

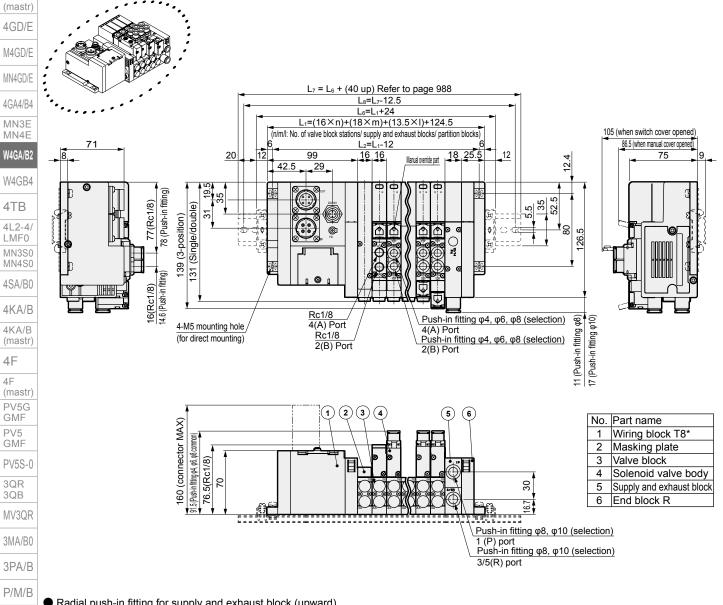
3QB

NVP

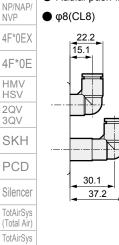
HSV 2QV 3QV

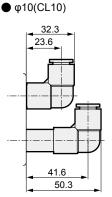
Dimensions

Serial transmission CC-Link (T8G*)



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





CKD

900

(Gamma) Ending

Reduced wiring manifold; body piping

4GA/B

M4GA/B

MN4GA/B 4GA/B (mastr) 4GD/E M4GD/E MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

4TB

4L2-4/

LMF0

MN3S0

MN4S0

4SA/B0

4KA/B 4KA/B

(mastr)

4F

4F (mastr) PV5G

GMF

PV5 GMF

PV5S-0

3QR

3QB

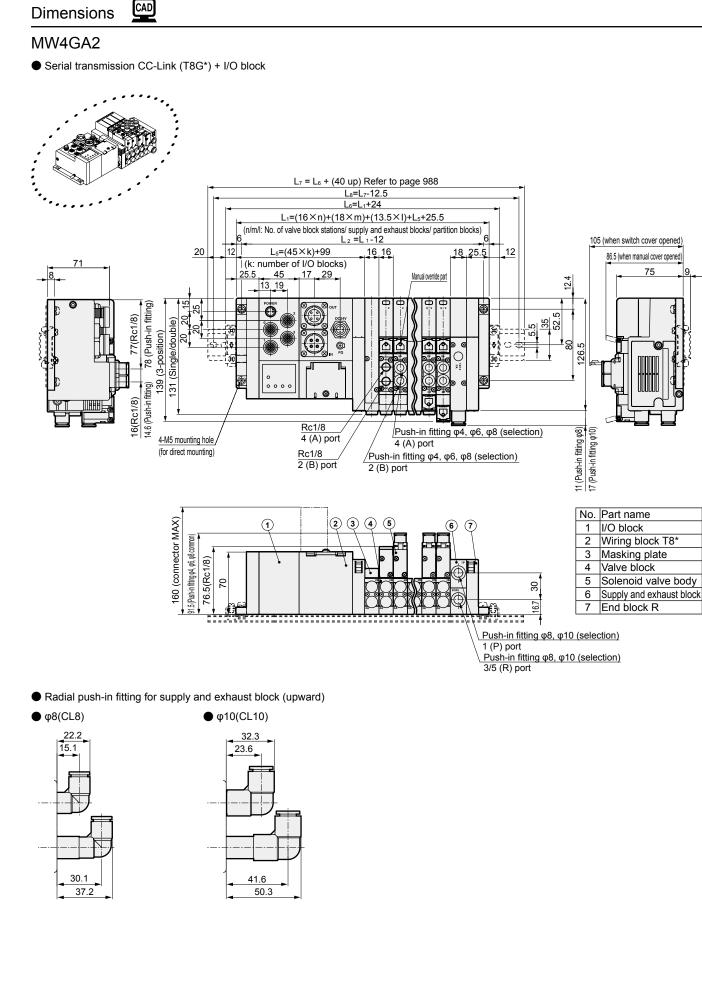
MV3QR 3MA/B0

3PA/B P/M/B

NP/NAP/ NVP

4F*0EX

4F*0E HMV HSV 2QV 3QV SKH PCD



Ending

Silencer TotAirSys (Total Air) TotAirSys (Gamma)

Reduced wiring manifold; body piping CAD

MW4GA2 M4GA/B

4GA/B

MN4GA/B

4F

4F

PV5

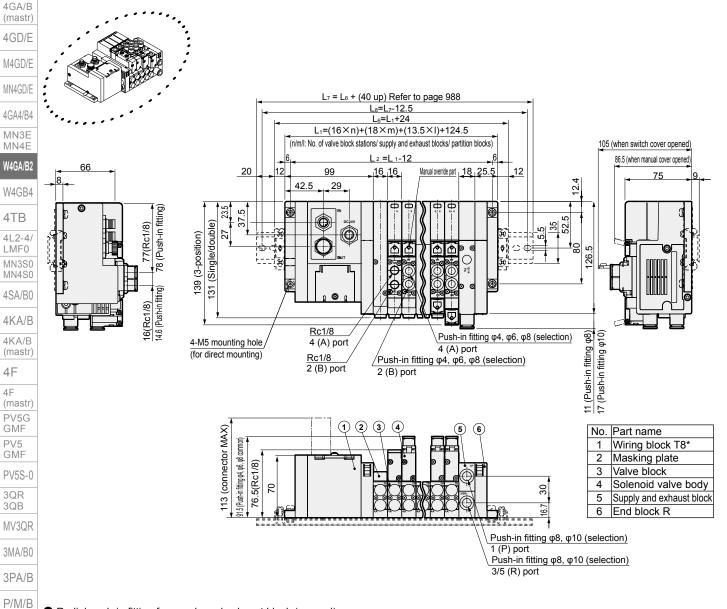
3QB

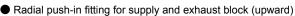
NVP

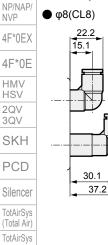
HSV 2QV 3QV

Dimensions

Serial transmission DeviceNet (T8D*)







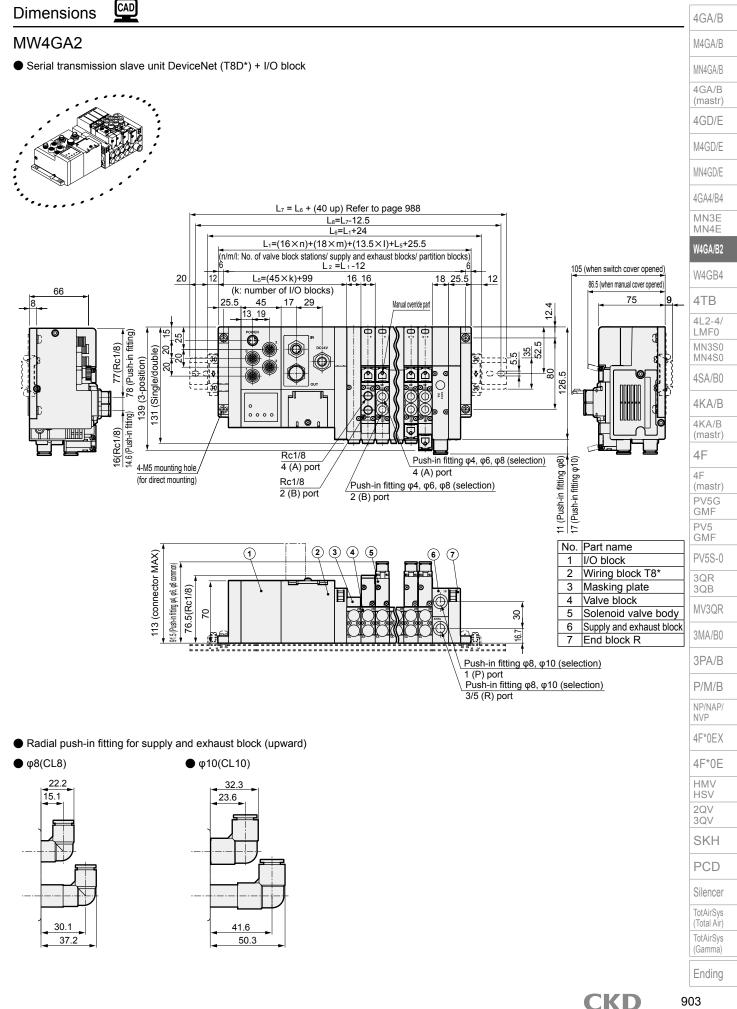
32.3 23.6 41.6 50.3

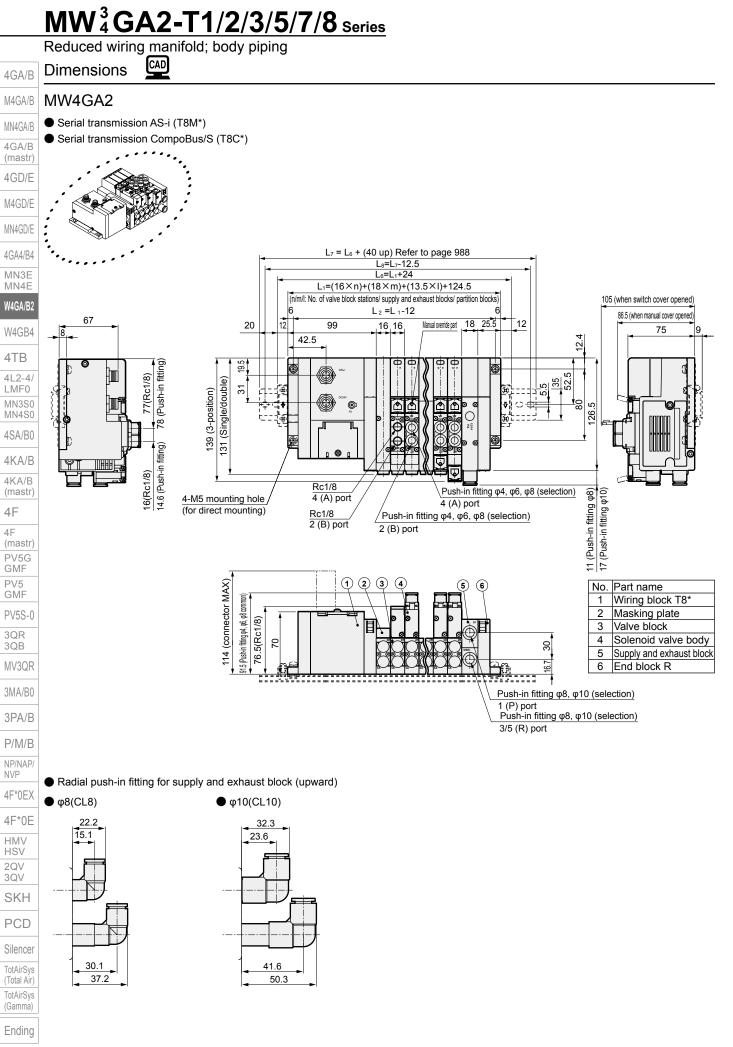
• φ10(CL10)

CKD

(Gamma) Ending

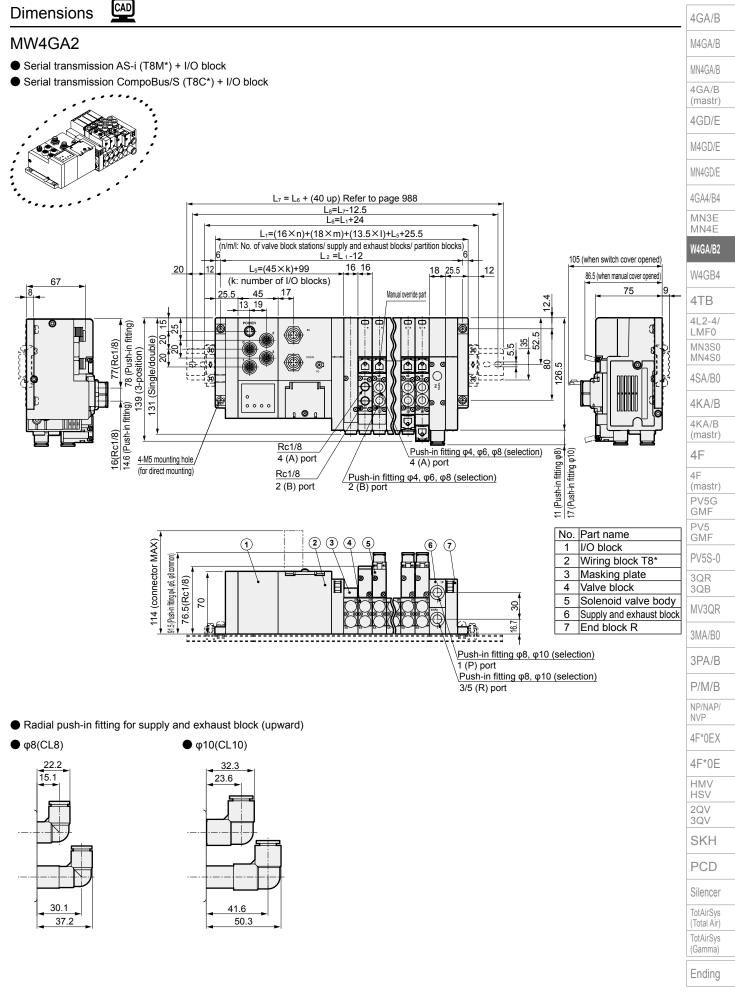
Reduced wiring manifold; body piping

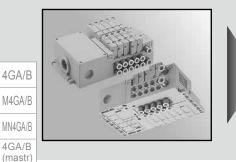




CKD

Reduced wiring manifold; body piping





Reduced wiring manifold Base side piping/base bottom piping MW4G^B₂2-T1/2/3/5/7/8 Series

Cylinder bore size: φ20 to φ80





4GD/E Manifold common specifications M4GD/E Descriptions MW4GB2 MW4GZ2 Manifold Block manifold MN4GD/E 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) 4GA4/B4 External pilot Main valve/pilot valve individual exhaust MN3E Piping direction Lateral direction from base Downward from base MN4E Valve and operation Pilot operated soft spool valve W4GA/B2 Working fluid Compressed air MPa 0.7 (≈100 psi, 7 bar) Max. working pressure W4GB4 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) 41 2-4/ Fluid temperature °C 5 (41°F) to 55 (131°F) LMF0 Manual override Non-locking/locking common (standard) MN3S0 *1 Lubrication Not required MN4S0 *2 Degree of protection Dust-proof/jet-proof (IP65) *3 4SA/B0 Vibration resistance m/s 49 or less Shock resistance m/s 294 or less 4KA/B Atmosphere Cannot be used in corrosive gas environments 4KA/B *1: Use turbine oil Class 1 ISO VG32 for lubrication *3: The degree of protection of D sub-connector (T30) and flat cable connector (T5*) is (mastr)

Electrical specifications

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

*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.

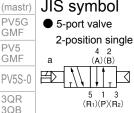
Note that excessive lubricant may cause unstable operation. dust proof. Avoid water drops or oil, etc., during use.

*2: Tested according to the test method for IP65 (IEC60529 (IEC529: 1989-11)) standards. *4: The working pressure range is 0 to 0.7 MPa when the external pilot (option code: K)

M

М

Refer to page 995 for details.



4TB

4F

4F

GMF

P\/5

GMF

3QR 3QB MV3QR

3MA/B0 ļ

3PA/B

P/M/B

NP/NAP/

4F*0EX

4F*0E HMV

HSV 2QV

3QV

SKH

TotAirSys (Total Air

TotAirSys (Gamma)

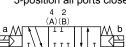
Ending

NVP

2-position double
a
$$\begin{pmatrix} 4 & 2 \\ (A)(B) & b \end{pmatrix}$$

<

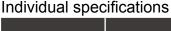
 $(R_1)(P)(R_2)$ 3-position all ports closed



3-position A/B/R connection

$$\xrightarrow{(A)(\overline{B})}_{T} \xrightarrow{(A)(\overline{B})}_{T} \xrightarrow{(B_1)(P)(B_2)}$$





			MW4GB2/MW4GZ2													
Descript	ions	T10 T20 T30 T51 T53 T7EC T7EC T7EC T8G1 T8G2 T8G7 T8MA T8M6							T8C1	T8C6						
Max.	Standard wiring	18	—	18	18	18	16	18	16	16	18	16	4	8	16	8
station No.	Double wiring	9	8	12	9	12	8	16	8	8	16	8	2	4	8	4
Max. number	r 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															
Conversion to a	ofor to pogo	014														

is selected. Set the external pilot pressure between 0.2 and 0.7 MPa

Description	-		MW4GB2/MW4GZ2				
Descriptions	5		ON	OFF			
Response	2-position	Single	22	24			
time	ms	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 Sol		oncid nocition	P→	A/B	A/B→R		
		enoid position	C[dm³/(s·bar)]	b	C[dm³/(s·bar)]	b	
	2-position		2.4	0.36	1.7	0.25	
IW4GB2		All ports closed	2.1	0.37	2.2	0.22	
/W4GZ2	3-position	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 \approx 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



MW4G^B_Z2-T1/2/3/5/7/8_{Series}

Reduced wiring manifold; base side piping/base bottom piping

Reduced wiring specifications

Descriptions	T10	T20	Т30	T51	T53
Туре	Common			20P	26P
	terminal block	Multi-connector	D sub-connector	Flat cable connector without	Flat cable connector without
	M3 thread			power supply terminal	power supply terminal
Connector		HIROSE ELECTRIC CO.	D sub-connector		MIL-C-83503 standard
-		LTD. RM21WTP-20S	(female)	compliant pressure welding socket	compliant pressure welding socket
		20-pin	25-pin	20-pin	26-pin

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

Dosc	riptions	Slave uni	t dedicated for v	Slave unit with I/O block					
Desc		T7EC1	T7EC2	T7ECP1	T7ECP2	Т7ЕСВ7 Т7ЕСРВ7			
Network n	ame		EtherCAT				rCAT		
Power supply	Unit side		24 VD0	24 VD0	C ±10%				
voltage	Valve side		24 VDC +	24 VDC +10%, -5%					
Current	Unit side		110mA	or less		110 mA or less (excluding input block current)			
consumption	Valve side		15 mA or less (excl	uding load current)		15 mA or less (excluding load current)			
Valve outp	out	NF	PN	PN	IP	NPN	PNP		
Input/outp	ut 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						

	Network name	CC	-Link(Ver1.1	10)	C	DeviceNet *	1	AS-i(\	/er2.0)		
Descriptions	Slave unit model No.	T8G1	T8G2	T8G7	T8D1	T8D2	T8D7	T8MA	T8M6		
Communica	ommunication speed 156K/625K/2.5M/5M/10Mbps		10Mbps	125K/250K/500Kbps			1671	167Kbps			
Power supply	Unit side	24 VDC ±10%				24 VDC ±10%		30 VD	C ±2%		
voltage	Valve side	24 VDC +10%, -5%			24	VDC +10%, -	5%	24 VDC +	10%, -5%		
renage	Communication side	_			11 to 25 VDC			_			
Current	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		
consumption	Valve side	15 mA or less	s (when all poi	nts are OFF)	15 mA or less (when all points are OFF)			15 mA or less (when all points are OFF)			
concumption	Communication side		—		50 mA or less			_			
Valve output	t		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 nu	umber		1 station		2 bytes	4 bytes	4 bytes	1 station	2 station		
Operation di	isplay	Power supply/comr	munication status/	valve power supply	Communicatio	Communication status/valve power supply			Communication status/valve power supply		
Others					For EDS	For EDS file, contact CKD. *5			Profile: 7, F *6		

\searrow	Network name	Compo	oBus/S			
Descriptions	Slave unit model No.	T8C1	T8C6			
Communica	tion speed	93.75K/750Kbps				
Power supply	Unit side	24 VDC ± 10% (commu	unication power supply)			
voltage	Valve side	24 VDC +	10%, -5%			
	Communication side		_			
Current	Unit side	50 mA or less *2 (communication power supply)				
consumption	Valve side	15 mA or less (when all points are OFF)				
	Communication side	-	_			
Valve output	t	NF	PN			
Input/output	point count	0/16	8/8			
Occupied nu	umber					
Operation di	splay	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.

MW4G^B2-T1/2/3/5/7/8 series Reduced wiring manifold; base side piping/base bottom piping

I/O block specifications

4GA/B Input block

Model No.	NW4GB2-	NW4GB2-	NW4GB2-	NW4GB2-					
Descriptions	IN-N-K	IN-N-B	IN-P-K	IN-P-B					
Number of inputs	4 points								
Rated input voltage	24 VDC								
Rated input current	7 mA								
ON voltage	15 VDC or more (betwee	en input terminals and V)	15 VDC or more (betwee	n input terminals and G)					
OFF voltage/OFF current	5 VDC or less (between input t	terminal and V)/1.5 mA or less	5 VDC or less (between input t	erminal and G)/1.5 mA or less					
Input	Sir	nk	Sou	rce					
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

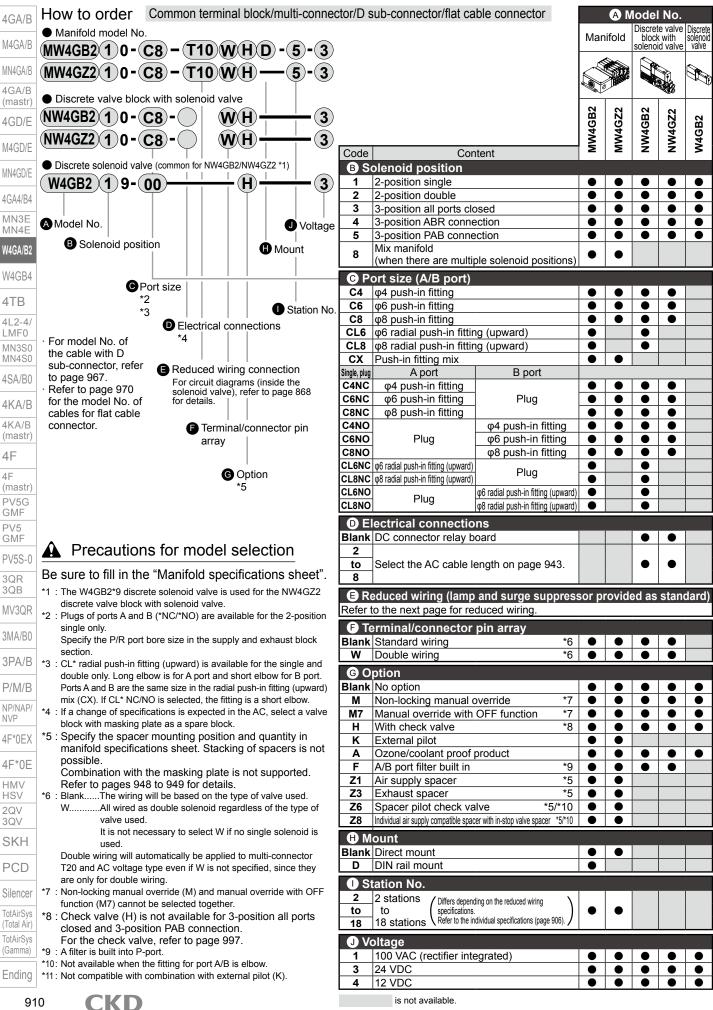
odel No.	NW4GB2-OUT-N-B	NW4GB2-OUT-P-B					
tput points	4 p	oints					
ated voltage	24	VDC					
lax. load current	1 A/1 point (3 A/common)						
Residual voltage	1.5 V	or less					
Dutput	Sink	Source					
Protection circuit	Overcurrent protection/re	verse connection protection					
use	Power supply for external load:	24 VDC and 5 A (can be replaced)					
Operation display	Power suppl	v/output status					

*1: Refer to page 948 for model No.

4GA/B

MW4G^B₂2-T1/2/3/5_{Series}

Reduced wiring manifold; base side piping/base bottom piping



MW4G^B₂2-T1/2/3/5_{Series}

Reduced wiring manifold; base side piping/base bottom piping

[Reduced wiring list]

A Model No.								
Man	ifold		e valve with d valve	Discrete solenoid valve				
MW4GB2	MW4GZ2	NW4GB2	NW4GZ2	W4GB2				
as st	anda	rd)						
	۲							

🕒 R	educed wiring (lamp and surge suppressor provided	as st	anda	rd)	
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.

4GA/B M4GA/B MN4GA/B 4GA/B (mastr) 4GD/E M4GD/E MN4GD/E 4GA4/B4 MN3E MN4E W4GA/B2 W4GB4 4TB 4L2-4/ LMF0 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (mastr) 4F 4F (mastr) PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0EX 4F*0E HMV HSV 2QV 3QV SKH PCD Silencer TotAirSys (Total Air) TotAirSys (Gamma) Ending 911

MW4G^B2-T7/T8 series Reduced wiring manifold; base side piping/base bottom piping

	Reduced winnig manifold, base side piping/ba		ntorn piping						
4GA/B	How to order Serial transmission					AM	odel		Di t
M4GA/B					Man		block	e valve with d valve	solenoid
MN4GA/B	$\frac{(MW4GB2(1) 0 - (C8) - (T8G1)(W(H)) - (5) - (3)}{(MW4GZ2(1) 0 - (C8) - (T8G1)(W(H)) - (5) - (3)}$								~
4GA/B									
(mastr)	• Discrete valve block with solenoid valve (NW4GB2)(1) 0- (C8) - (W)(H) (3)				~			V	
4GD/E					GB2	GZ2	GB2	GZ2	W4GB2
M4GD/E					MW4GB2	MW4GZ2	NW4GB2	NW4GZ2	W40
MN4GD/E	Discrete solenoid valve (common for NW4GB2/NW4GZ2 *1)	Code	Con	tent	2		_		
4GA4/B4	W4GB2 1 9-00 H 3	B S	olenoid position 2-position single				•		•
MN3E	Model No.	2	2-position double		•	•	•	•	•
MN4E	B Solenoid position	3 4	3-position all ports clo 3-position ABR conne		•	•	•	•	•
W4GA/B2	Colorible position Mount	5	3-position PAB conne Mix manifold	ction	•	•	•	•	•
W4GB4		8	(when there are multip	ble solenoid positions)	•	•			
4TB	OPort size		ort size (A/B port) φ4 push-in fitting						
4L2-4/ LMF0	*2 *3 ••••••••••••••••••••••••••••••••••••	C6	φ6 push-in fitting		•	•	•	•	
MN3S0		C8 CL6	φ8 push-in fitting φ6 radial push-in fittin	g (upward)	•	•	•		
MN4S0	Electrical connections	CL8	φ8 radial push-in fittin		•		•		
4SA/B0	Reduced wiring connection	CX Single, plug	Push-in fitting mix A port	B port					
4KA/B	For circuit diagrams (inside the solenoid valve), refer to page	C4NC C6NC	φ4 push-in fitting φ6 push-in fitting	Plug	•	•	•	•	
4KA/B (mastr)	868.	C8NC	φ8 push-in fitting		•	•	•	•	
4F		C4NO C6NO	Plug	φ4 push-in fitting φ6 push-in fitting	•	•	•	•	
4F	Terminal/connector pin array		φ6 radial push-in fitting (upward)	φ8 push-in fitting	•		•	•	
(mastr)		CLONC		Dive	•		•		
PV5G			φ8 radial push-in fitting (upward)	Plug			\bullet		
PV5G GMF	G Option	CL8NC CL6NO CL8NO	φ8 radial push-in fitting (upward)	φ6 radial push-in fitting (upward)	•		•		
PV5G	G Option	CL6NO CL8NO DE	φ8 radial push-in fitting (upward) Plug lectrical connectio	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns	-		•		
PV5G GMF PV5	Option Precautions for model selection	CL6NO CL8NO D E Blank	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay bo	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns pard	•		•		
PV5G GMF PV5 GMF	Precautions for model selection	CL6NO CL8NO D E Blank	φ8 radial push-in fitting (upward) Plug lectrical connectio	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns pard and surge suppress	•	rovide	• • • • • •	• stanc	dard)
PV5G GMF PV5 GMF PV5S-0 3QR	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	CL6NO CL8NO D E Blank E R Refer	φ8 radial push-in fitting (upward) Plug Iectrical connectio DC connector relay bo educed wiring (lamp to the next page for re erminal/connector	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns pard and surge suppress duced wiring. pin array	•	rovide	• • • • • • •	• stanc	dard)
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR	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	CL6NO CL8NO D E Blank Refer F To Blank	φ8 radial push-in fitting (upward) Plug Iectrical connectio DC connector relay bo educed wiring (lamp to the next page for re	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns pard and surge suppress duced wiring.	•	rovide	• • • • • • •	• stanc	dard)
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0	 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. 	CL6NO CL8NO D E Blank E R Refer F T Blank W	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay be educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns pard and surge suppress duced wiring. pin array *4	•	rovide	• • • • • • • •	• stanc	dard)
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B	 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. 	CL6NO CL8NO D E Blank E R Refer F T Blank W	φ8 radial push-in fitting (upward) Plug Iectrical connectio DC connector relay be educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns board and surge suppress duced wiring. pin array *4 *4	•		• • • • • • • •	stanc	dard)
PV5G GMF PV5 GMF PV5S-0 3QR 3QR 3QR 3QR 3QA 3DA/B0 3PA/B P/M/B	 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). 	CL6NO CL8NO E Blank E R Refer F T Blank W G C Blank M M7	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay bo educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring ption No option Non-locking manual o Manual override with	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns bard and surge suppress duced wiring. pin array *4 *4 *4 \$5 OFF function *5	•	• • • •	• • • •		dard)
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B	 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 	CL6NO CL8NO CL8NO E Blank E Refer F T Blank W G C Blank M T H K	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay be educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring ption No option Non-locking manual o Manual override with With check valve External pilot	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns bard and surge suppress duced wiring. pin array *4 *6		0 0 0 0 0 0 0			
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/	 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 : BlankThe wiring will be based on the type of valve used. WAll wired as double solenoid regardless of the type of 	CL6NO CL8NO E Blank E R Refer F T Blank W G C Blank M M 7 H	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay bo educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring ption No option Non-locking manual o Manual override with With check valve	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns bard and surge suppress duced wiring. pin array *4 *6			• • • •		3ard) ● ● ● ● ● ●
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ NVP	 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 : BlankThe wiring will be based on the type of valve used. W	CL6NO CL8NO DE Blank ER Refer FT Blank W GO Blank M M7 H K A F	φ8 radial push-in fitting (upward) Plug Iectrical connectio DC connector relay be educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring Double wiring Ption Non-locking manual o Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns baard and surge suppress duced wiring. pin array *4 *5 OFF function *6 product *7 *8					
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B 3PA/B P/M/B NP/NAP/ NVP 4F*0EX 4F*0E HMV	 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 : BlankThe wiring will be based on the type of valve used. WAll 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 	CL6NO CL8NO DE Blank ER Refer FT Blank W GO Blank M7 H K A F	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay bo educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring ption No option Non-locking manual o Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block (In **, enter the number or combination from Table file).	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns bard and surge suppress duced wiring. pin array *4 *4 *4 *4 *4 *5 OFF function *5 of the desired I/O block [I/O block combination]					
PV5G GMF PV5 GMF PV5S-0 3QR 3QR 3QA MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ 4F*0EX 4F*0E	 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 : BlankThe wiring will be based on the type of valve used. WAll wired as double solenoid regardless of the type of valve 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 	CL6NO CL8NO DE Blank ER Refer FT Blank W GO Blank M M7 H K A F	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay bo educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring puble wiring pouble wiring ption Non-locking manual o Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block (In **, enter the number of the pointaition form Table for the point	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns baard and surge suppress duced wiring. pin array *4 *5 OFF function *6 product *7 *8					
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ 4F*0EX 4F*0EX HMV 2QV 3QU	 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 : BlankThe wiring will be based on the type of valve used. WAll wired as double solenoid regardless of the type of valve 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. 	CL6NO CL8NO DE Blank E R Refer F T Blank W G O Blank W G O Blank M7 H K A F Y** 21 Z3 Z6	¢8 radial push-in fitting (upward) Plug Iectrical connectio DC connector relay bo educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring ption Non-locking manual of Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block (In ↔ enter the number of combination from Table to table). Air supply spacer Exhaust spacer Spacer pilot check val	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns baard and surge suppress duced wiring. pin array *4 *4 *4 *4 *4 *6 OFF function *5 OFF function *7 *8 of the desired I/O block [I/O block combination] *9 *9 *9 *9 *9 *9 *9 *9 *9					
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B 3PA/B P/M/B NP/NAP/ NVP 4F*0EX 4F*0E HMV HSV 2QV	 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 : BlankThe wiring will be based on the type of valve used. WAll wired as double solenoid regardless of the type of valve 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 	CL6NO CL8NO DE Blank ER Refer FT Blank W GO Blank M M7 H K A F Y** Z1 Z3 Z6 Z8	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay bo educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring ption No option Non-locking manual o Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block (In **, enter the number or combination from Table to combination from Table to combination from Table to the ck value Air supply spacer Exhaust spacer Spacer pilot check valid air supply with in-st	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns baard and surge suppress duced wiring. pin array *4 *4 *4 *4 *4 *6 OFF function *5 OFF function *7 *8 of the desired I/O block [I/O block combination] *9 *9 *9 *9 *9 *9 *9 *9 *9					
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ 4F*0EX 4F*0EX HMV 2QV 3QU	 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 : BlankThe 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 	CL6NO CL8NO DE Blank E R Refer F T Blank W G O Blank M M7 H K A F Y** Z1 Z3 Z6 Z8 H M Blank	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay bo educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring ption No option Non-locking manual o Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block (In **, enter the number of combination from Table filter Air supply spacer Exhaust spacer Spacer pilot check va Individual air supply with in-st Direct mount	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns baard and surge suppress duced wiring. pin array *4 *4 *4 *4 *4 *6 OFF function *5 OFF function *7 *8 of the desired I/O block [I/O block combination] *9 *9 *9 *9 *9 *9 *9 *9 *9	Sor pi 				
PV5G GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NVP/NAP/ AF*0EX 4F*0EX 4F*0EX 4F*0E HMV HSV 2QV 3QV SKH	 Precautions for model selection Be sure to fill in the "Manifold specifications sheet". *1 : The W46B2*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 : BlankThe wiring will be based on the type of valve used. WAll 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 	CL6NO CL8NO DE Blank E R Refer F T Blank W G O Blank M M T H K A F Y*** Z1 Z3 Z6 Z8 C Blank D	φ8 radial push-in fitting (upward) Plug Iectrical connectio DC connector relay bo educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring Double wiring ption Non-locking manual o Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block (n - enter the number table]. Air supply spacer Exhaust spacer Spacer pilot check val Individual air supply with in-st Ount Direct mount DIN rail mount	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns baard and surge suppress duced wiring. pin array *4 *4 *4 *4 *4 *6 OFF function *5 OFF function *7 *8 of the desired I/O block [I/O block combination] *9 *9 *9 *9 *9 *9 *9 *9 *9					
PV5G GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ AF*0EX 4F*0EX 4F*0EX 4F*0EX 4F*0EX 4F*0EX SILencer TotAirSys	 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 : BlankThe wiring will be based on the type of valve used. W	CL6NO CL8NO CL8NO DE Blank E R Refer F T Blank W G O Blank W G O Blank M T H K A F F Y** Z1 Z3 Z6 Z8 C Blank D I S 2	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay boot educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring Double wiring Double wiring Ption No option Non-locking manual o Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block (In **, enter the number of table) Air supply spacer Exhaust spacer Spacer pilot check val Individual air supply with in-st Individual air supply with in-st DIN rail mount tation No. 2 stations Differs depend	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns paradial push-in fitting (upward) and surge suppress duced wiring. pin array *4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *5 OFF function *5 *6 product *7 *8 *9 *9 *9 *9 *9 *9/*10 op valve spacer *9/*10/*11 ting on the reduced wiring	Sor pi 				
PV5G GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0EX 4F*0EX 4F*0EX 4F*0EX 4F*0EX 4F*0EX 4F*0EX SIEncer TotAirSys (TotAirSys (TotAirSys	 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 : BlankThe wiring will be based on the type of valve used. WAll wired as double solenoid regardless of the type of valve used. *5 : 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 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. Stacking of spacers is not possible. Combination with the masking plate is not supported. Refer to page 948 to 949 for details. 	CL6NO CL8NO DE Blank E R Refer F T Blank W G O Blank W G O Blank M T H K A F F Y** Z1 Z3 Z6 Z8 C Blank D Slank	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay boots educed wiring (lamp to the next page for re erminal/connector Standard wiring Double wiring ption No option Non-locking manual o Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block (In **, enter the number from Table frable). Air supply spacer Exhaust spacer Spacer pilot check val Direct mount DIN rail mount tation No. 2 stations Differs dependent on the specifications.	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns paradial push-in fitting (upward) and surge suppress duced wiring. pin array *4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *5 OFF function *5 *6 product *7 *8 *9 *9 *9 *9 *9 *9/*10 op valve spacer *9/*10/*11 ting on the reduced wiring	Sor pi 				
PV5G GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0EX 4F*0EX 4F*0EX 4F*0EX 4F*0EX 4F*0EX SKH PCD Silencer TotAirSys (TotAirSys (TotAirSys (TotAirSys (Gamma)	 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 : BlankThe wiring will be based on the type of valve used. WAll wired as double solenoid regardless of the type of valve 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. 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). 	CL6NO CL8NO CL8NO DE Blank E R Refer F T Blank W G O Blank W G O Blank M T H K A F T Y*** Z1 Z3 Z6 Z8 V *** D S 2 to 16 S 0 V	φ8 radial push-in fitting (upward) Plug Iectrical connectio DC connector relay boots educed wiring (lamp to the next page for reservinal/connector standard wiring Double wiring Double wiring ption No option Non-locking manual of Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block (in **, enter the number of combination from Table filter Air supply spacer Exhaust spacer Spacer pilot check val Direct mount DIN rail mount tation No. 2 stations 16 stations Refer to the in sectifications.	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns paradial push-in fitting (upward) and surge suppress duced wiring. *4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *4 *5 OFF function *5 *6 product *7 *8 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9	Sor pi 				
PV5G GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0EX 4F*0EX 4F*0EX 4F*0EX 4F*0EX 4F*0EX 4F*0EX SIEncer TotAirSys (TotAirSys (TotAirSys	 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 : BlankThe wiring will be based on the type of valve used. WAll 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. Stacking of spacers is not possible. Combination with the masking plate is not supported. Refer to page 948 to 949 for details. *10: Not available when the fitting for port A/B is elbow. 	CL6NO CL8NO CL8NO DE Blank E R Refer F T Blank W G O Blank W G O Blank M T H K A F T Y*** Z1 Z3 Z6 Z8 V *** D S 2 to 16 S 0 V	φ8 radial push-in fitting (upward) Plug lectrical connectio DC connector relay boots educed wiring (lamp to the next page for restricts) erminal/connector Standard wiring Double wiring Double wiring Ption No option Non-locking manual of Manual override with With check valve External pilot Ozone/coolant proof p A/B port filter built in I/O block (In **, enter the number of table) Air supply spacer Exhaust spacer Spacer pilot check val Individual air supply with in-st Individual air supply with in-st DIN rail mount tation No. 2 stations 16 stations	φ6 radial push-in fitting (upward) φ8 radial push-in fitting (upward) ns paradial push-in fitting (upward) ns paradial push-in fitting (upward) and surge suppress duced wiring. pin array *4 *5 OFF function *5 *6 product *7 *8 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 *9 <	Sor pi 				

MW4G^B₂2-T7/T8_{Series}

Reduced wiring manifold; base side piping/base bottom piping

[Reduced wiring list]

	A	Mo	del N	о.
Manifold		Discrete valve block with solenoid valve		Discrete solenoid valve
MW4GB2	MW4GZ2	NW4GB2	NW4GZ2	W4GB2

			-				
E Reduced	wiring (lamp and	d surge suppressor	prov	ided	as st	anda	rd)
T7EC1		16 point output (NPN valve output)	•	•			
T7ECP1		16 point output (PNP valve output)	•	•			
T7EC2	Thin	32 point output (NPN valve output)	•	•			
T7ECP2	EtherCAT	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		16 point output					
T8G2	CC-Link	32 point output					
T8G7		16 point input/16 point output					
T8C1	CompoBus/S	16 point output					
T8C6	CompoBus/S	8 point input/8 point output					
T8D1		16 point output					
T8D2	DeviceNet	32 point output					
T8D7		16 point input/16 point output					
T8MA	AS-i	4 point input/4 point output					
T8M6	A3-1	8 point input/8 point output	•				

Table 1 [I/O block combination table] Τ7

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

*1: How to read the table Example) Y11 is a combination of one input block

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

Т8

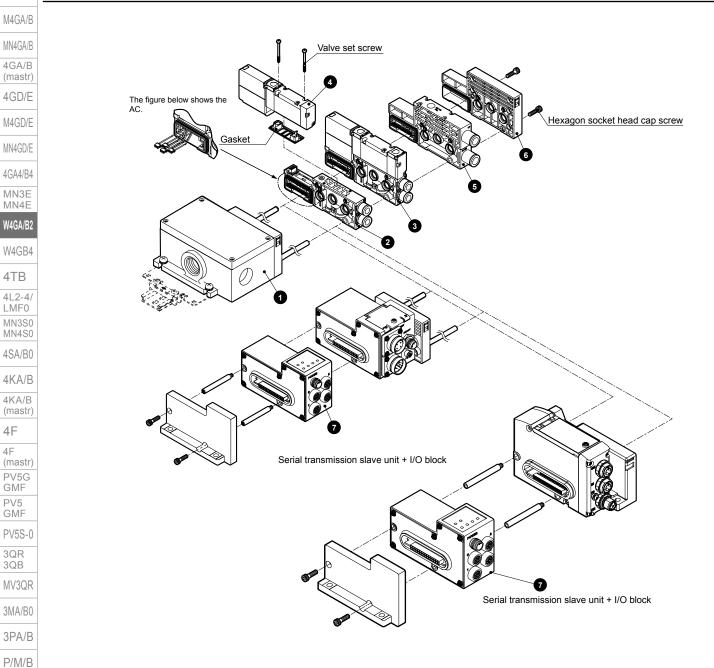
Code	Layou	ut of I/	O bloc	ks and	d static	n No.	
Y10						IN	
Y20					IN	IN	
Y30				IN	IN	IN	
Y40			IN	IN	IN	IN	
Y01						OUT	a)
Y02					OUT	OUT	side
Y03				OUT	OUT	OUT	Š
Y04			OUT	OUT	OUT	OUT	Pla
Y11					OUT	IN	bu
Y21				OUT	IN	IN	Wiring block side
Y31			OUT	IN	IN	IN	>
Y41		OUT	IN	IN	IN	IN	
Y12				OUT	OUT	IN	
Y22			OUT	OUT	IN	IN	
Y32		OUT	OUT	IN	IN	IN	
Y42	OUT	OUT	IN	IN	IN	IN	

	MN4GA/B
	4GA/B (mastr)
	4GD/E
	M4GD/E
	MN4GD/E
	4GA4/B4
	MN3E MN4E
	W4GA/B2
	W4GB4
	4TB
	4L2-4/ LMF0
	MN3S0 MN4S0
	4SA/B0
	4KA/B
	4KA/B (mastr)
	4F
	4F (mastr)
	PV5G GMF
	PV5 GMF
	PV5S-0
	3QR 3QB
	MV3QR
	3MA/B0
	3PA/B
	P/M/B
	NP/NAP/ NVP
	4F*0EX
	4F*0E
	HMV HSV
	2QV 3QV
	SKH
	PCD
	Silencer
	TotAirSys (Total Air)
	TotAirSys (Gamma)
	Ending
9	13

4GA/B M4GA/B

Reduced wiring manifold; base side piping/base bottom piping

Manifold components explanation and parts list 4GA/B



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

Х	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
Ε	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)

SKH	NW4GB2			NW4GZ2		(g)
	Block	Model No.	Weight	Block	Model No.	Weight
PCD	Valve block with solenoid valve	NW4GB210-*-*-*	177	Valve block with solenoid valve	NW4GB210-*-*-*	177
Silencer		NW4GB220-*-*-*	193		NW4GB220-*-*-*	192
TotAirSys		NW4GB2 ³ ₅ 0-*-*-*	200		NW4GB2 ³ ₄ 0-*-*-*	199
(Total Air)	Valve block with masking plate	NW4GB2-MP ^S -*	113	Valve block with masking plate	NW4GB2-MP ^S -*	112
TotAirSys	Wiring block (serial transmission slave unit)	NW4GB2-T8*	430	Wiring block (serial transmission slave unit)	NW4GB2-T8*	430
(Gamma)	I/O block (serial transmission slave unit)	NW4GB2- IN OUT - P-B	220	Wiring block (serial transmission slave unit)	NW4G2-T7*	280
Ending				I/O block (serial transmission slave unit)	NW4GB2-IN/OUT-N/P-K/B	220

Ending

4TB

4F 4F

GMF PV5 GMF

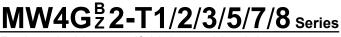
3QR 3QB

NP/NAP/

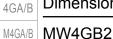
NVP 4F*0EX 4F*0E HMV HSV 2QV 3QV

MW4G 2-T1/2/3/5/8 series Reduced wiring manifold; base side piping/base bottom piping

Block	Model No.	Weigh	t Block	Model No.	(g) Z Weight
Supply and exhaust block	NW4G2-Q-*	137	Wiring block	NW4G2-T10	423
	NW4G2-QK-*		1	NW4G2-T20	490
	NW4G2-QZ-*	137	1	NW4G2-T30	370
	NW4G2-QKZ-		1	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
Darta liat			Individual air supply compatible spacer with in-st		115
Parts list			·	· · · · · · · · · · · · · · · · · · ·	N
Applicable	Part name		Model No.		4
	Cartridge fitting	raight	4G2-JOINT-C	24	
	Cartridge fitting $\phi 6$ st		4G2-JOINT-C		1
	Cartridge fitting $\phi 8$ st		4G2-JOINT-C		٧
Valve	Cartridge fitting φ6 (s	,	4G2-JOINT-C		
Valve	Cartridge fitting $\phi 6$ lo	-	4G2-JOINT-C		\
	Cartridge fitting φ8 (s		4G2-JOINT-C	218	
	Cartridge fitting	ng elbow	4G2-JOINT-C		2
	Plug cartridge		4G2-JOINT-C		2
	Cartridge fitting		N4G2-Q-JOIN		L
	Cartridge fitting q10 s		N4G2-Q-JOIN		1
Supply and exhaust	Cartridge fitting φ8 (s		N4G2-Q-JOIN		4
block port P/R	Cartridge fitting ϕ 8 lo	-	N4G2-Q-JOIN		
	Cartridge fitting φ10 (N4G2-Q-JOIN		4
	Cartridge fitting ϕ 10 lo	ong elbow	N4G2-Q-JOIN		2
	Plug cartridge		N4G2-Q-JOIN		(
	Contridge fitting (Contridge of the second s	raight	N4G-QK-JOI	NT-6	2
Supply and exhaust block port	PA Cartridge fitting φ6 st				-
Supply and exhaust block port	PA Cartridge fitting φ6 sti	bow	N4G-QK-JOI	NT-6L	
	PA Cartridge fitting φ6 ell	bow	N4G-QK-JOI	NT-6L	2
Parts kit for T10 v	PA Cartridge fitting φ6 ell	bow	N4G-QK-JOII	NT-6L	2 (
Parts kit for T10 v Cable clamp	^{PA} Cartridge fitting φ6 ell viring block	bow	N4G-QK-JOII	NT-6L	2 (
Parts kit for T10 v Cable clamp Model No. Applicable c	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content			NT-6L	2 (
Parts kit for T10 v Cable clamp Model No. Applicable of N4G-SCL-18A	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable			NT-6L	2 ((F (C
Parts kit for T10 v Cable clamp Model No. Applicable c	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable			NT-6L	2 ((F () F () F
Parts kit for T10 v Cable clamp Model No. Applicable of N4G-SCL-18A	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable			NT-6L	Z (F F F C S
Parts kit for T10 v Cable clamp Model No. Applicable of \$4.5 to 1\$ W4G-SCL-18A \$\varphi14.5 to 1\$ W4G-SCL-18B \$\varphi16.5 to 1\$	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable	es from dust and je		NT-6L	Z (F C F C C
Parts kit for T10 v Cable clamp Model No. Applicable c N4G-SCL-18A φ14.5 to 1 W4G-SCL-18B φ16.5 to 1	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable			NT-6L	Z (F F F C S
Parts kit for T10 v Cable clamp Model No. Applicable c N4G-SCL-18A φ14.5 to 1 W4G-SCL-18B φ16.5 to 1	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable	es from dust and je		NT-6L	Z (F C F C C
Parts kit for T10 v Cable clamp Model No. Applicable c N4G-SCL-18A φ14.5 to 1 W4G-SCL-18B φ16.5 to 1	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable	es from dust and je		NT-6L	Z (F F F S S S S S S S S S S S S S S S S
Parts kit for T10 v Cable clamp Model No. Applicable c N4G-SCL-18A φ14.5 to 1 W4G-SCL-18B φ16.5 to 1	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable	es from dust and je		NT-6L	Z (F C F C S S S
Parts kit for T10 v D Cable clamp Model No. Applicable of N4G-SCL-18A φ14.5 to 1 N4G-SCL-18B φ16.5 to 1 PF3/4 Gasket	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable	es from dust and je		NT-6L	Z () F C F C S S S S S S S S S S S S S S S S
Parts kit for T10 v Cable clamp Model No. Applicable c N4G-SCL-18A φ14.5 to 1 W4G-SCL-18B φ16.5 to 1	^{PA} Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable	es from dust and je		NT-6L	Z () F () F () F () F () F () F () F ()
Parts kit for T10 v D Cable clamp Model No. Applicable of N4G-SCL-18A 0744.5 to 1 N4G-SCL-18B 076.5 to 1 PF3/4 Gasket PF3/4 Gasket max29.5	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Water. Applicable cable O.D.	es from dust and je		NT-6L	Z () F C F C S S S S S S S S S S S S S S S S
Parts kit for T10 v Cable clamp Model No. Applicable of N4G-SCL-18A 0/14.5 to 1 N4G-SCL-18B 0/16.5 to 1 PF3/4 PF3/4 Casket (Reference ve Body tight)	PA Cartridge fitting ϕ 6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Water. Applicable cable 0.D. Iue) ening torque 4.0 to 4.5 N	es from dust and je		NT-6L	Z () F C F C F C F C F C F C F C F C F C F
Parts kit for T10 v Cable clamp Model No. Applicable of N4G-SCL-18A \$\overline{14.5 to 1}\$ N4G-SCL-18B \$\overline{16.5 to 1}\$ PF3/4 \$\verline{16.5 to 1}\$ Gasket \$\verline{16.5 to 1}\$ \$\verline{16.5 to 1}\$ \$16.5	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Viring block able 0.D. Content 0.5 Used to protect cable water. Applicable cable 0.D. Iue) ening torque 1.0 to 4.5 N- 3.0 to 3.5 N-	es from dust and je		NT-6L	Z () F C C C C C C C C C C C C C C C C C C
Parts kit for T10 v Cable clamp Model No. Applicable of N4G-SCL-18A 0/14.5 to 1 N4G-SCL-18B 0/16.5 to 1 PF3/4 PF3/4 Casket (Reference ve Body tight)	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Viring block able 0.D. Content 0.5 Used to protect cable water. Applicable cable 0.D. Iue) ening torque 1.0 to 4.5 N- 3.0 to 3.5 N-	es from dust and je		NT-6L	Z () F C F C F C F C F C F C F C F C F C F
Parts kit for T10 v Cable clamp Model No. Applicable of N4G-SCL-18A \$\overline{14.5 to 1}\$ N4G-SCL-18B \$\overline{16.5 to 1}\$ PF3/4 \$\verline{16.5 to 1}\$ Gasket \$\verline{16.5 to 1}\$ \$\verline{16.5 to 1}\$ \$16.5	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Viring block able 0.D. Content 0.5 Used to protect cable water. Applicable cable 0.D. Iue) ening torque 1.0 to 4.5 N- 3.0 to 3.5 N-	es from dust and je		NT-6L	2 () F G G F G G G G G G G G G G G G G G G
Parts kit for T10 v Cable clamp Model No. Applicable of W4G-SCL-18A ϕ 14.5 to 1 W4G-SCL-18B ϕ 16.5 to 1 PF3/4 Gasket Find the state of the state o	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Viring block able 0.D. Content 0.5 Used to protect cable water. Applicable cable 0.D. Iue) ening torque 1.0 to 4.5 N- 3.0 to 3.5 N-	es from dust and je	etting		Z () F C F C F C F C F C F C F C F C F C F
Parts kit for T10 v Cable clamp Model No. Applicable of N4G-SCL-18A (p14.5 to 1 N4G-SCL-18B (p16.5 to 1 PF3/4 Gasket (Reference ve Body tight Cable clar Parts for I/O block Waterproof cap Model No. Content	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Water. Applicable cable O.D. Iue) ening torque 4.0 to 4.5 N- mp tightening torque 3.0 to 3.5 N-	es from dust and je	● Waterproof plug Model No. Conten	t	Z () F C F C F C F C F C C F C C F C C F C C F C C F C C F C C F C C F C C F C C F C C F C C F C C F C F C F C C F C F C C F C C F C C F C C F C C F C C F C C F C C F C C C F C C C F C C C F C C C F C
Parts kit for T10 v Cable clamp Model No. Applicable of M4G-SCL-18A φ 14.5 to 1 M4G-SCL-18B φ 16.5 to 1 PF3/4 Gasket (Reference va Body tight Cable clar Parts for I/O blocl Waterproof cap Model No. Content	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable water. Applicable cable O.D. Iue) ening torque 4.0 to 4.5 N- np tightening torque 3.0 to 3.5 N- C	es from dust and je	● Waterproof plug Model No. Conten	t jet-proof protection of unused sig	gnal
Parts kit for T10 v Cable clamp Model No. Applicable of M4G-SCL-18A φ 14.5 to 1 M4G-SCL-18B φ 16.5 to 1 PF3/4 Gasket (Reference va Body tight Cable clar Parts for I/O blocl Waterproof cap Model No. Content	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Applicable cable 0.D. Iue) ening torque np tightening torque -proof protection of the power suppl upply is shared with the serial transm	es from dust and je	• Waterproof plug Model No. Conten	t jet-proof protection of unused sig	Z () F C F C F C F C F C C F C C F C C F C C F C C F C C F C C F C C F C C F C C F C C F C C F C C F C F C F C C F C F C C F C C F C C F C C F C C F C C F C C F C C F C C C F C C C F C C C F C C C F C
Parts kit for T10 v Cable clamp Model No. Applicable of M4G-SCL-18A φ 14.5 to 1 M4G-SCL-18B φ 16.5 to 1 PF3/4 Gasket (Reference va Body tight Cable clar Parts for I/O blocl Waterproof cap Model No. Content	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable water. Applicable cable O.D. Iue) ening torque 4.0 to 4.5 N- np tightening torque 3.0 to 3.5 N- C	es from dust and je	• Waterproof plug Model No. Conten	t jet-proof protection of unused sig	gnal
Parts kit for T10 v Cable clamp Model No. Applicable of M4G-SCL-18A φ 14.5 to 1 M4G-SCL-18B φ 16.5 to 1 PF3/4 Gasket (Reference va Body tight Cable clar Parts for I/O blocl Waterproof cap Model No. Content	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Applicable cable 0.D. Iue) ening torque np tightening torque -proof protection of the power suppl upply is shared with the serial transm	es from dust and je	• Waterproof plug Model No. Conten	t jet-proof protection of unused sig	gnal
Parts kit for T10 v Cable clamp Model No. Applicable of M4G-SCL-18A φ 14.5 to 1 M4G-SCL-18B φ 16.5 to 1 PF3/4 Gasket (Reference va Body tight Cable clar Parts for I/O blocl Waterproof cap Model No. Content	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Applicable cable 0.D. Iue) ening torque np tightening torque -proof protection of the power suppl upply is shared with the serial transm	es from dust and je	• Waterproof plug Model No. Conten	t jet-proof protection of unused sig	gnal
Parts kit for T10 v Cable clamp Model No. Applicable of M4G-SCL-18A φ 14.5 to 1 M4G-SCL-18B φ 16.5 to 1 PF3/4 Gasket (Reference va Body tight Cable clar Parts for I/O blocl Waterproof cap Model No. Content	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Applicable cable 0.D. Iue) ening torque np tightening torque -proof protection of the power suppl upply is shared with the serial transm	es from dust and je	• Waterproof plug Model No. Conten	t jet-proof protection of unused sig	gnal
Parts kit for T10 v Cable clamp Model No. Applicable of M4G-SCL-18A φ 14.5 to 1 M4G-SCL-18B φ 16.5 to 1 PF3/4 Gasket (Reference va Body tight Cable clar Parts for I/O blocl Waterproof cap Model No. Content	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Applicable cable 0.D. Iue) ening torque np tightening torque -proof protection of the power suppl upply is shared with the serial transm	es from dust and je	• Waterproof plug Model No. Conten	t jet-proof protection of unused sig	anal
Parts kit for T10 v Cable clamp Model No. Applicable of M4G-SCL-18A φ 14.5 to 1 M4G-SCL-18B φ 16.5 to 1 PF3/4 Gasket (Reference va Body tight Cable clar Parts for I/O blocl Waterproof cap Model No. Content	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Applicable cable 0.D. Iue) ening torque np tightening torque -proof protection of the power suppl upply is shared with the serial transm	es from dust and je	• Waterproof plug Model No. Conten	t jet-proof protection of unused sig	gnal
Parts kit for T10 v Cable clamp Model No. Applicable of M4G-SCL-18A 04.5 to 1 M4G-SCL-18B 016.5 to 1 PF3/4 Gasket (Reference va Body tight Cable clar Parts for I/O bloc Waterproof cap Model No. Content M4G-XSZ-11 Provides jet the power s	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Applicable cable 0.D. Iue) ening torque np tightening torque -proof protection of the power suppl upply is shared with the serial transm	es from dust and je	etting • Waterproof plug Model No. Conten W4G-XSZ-12 Provides connector W4G-XSZ-12 Provides connector	t . jet-proof protection of unused signs.	gnal
Parts kit for T10 v Cable clamp Model No. Applicable of N4G-SCL-18A 04.5 to 1 N4G-SCL-18B 06.5 to 1 PE3/4 Gasket (Reference va Body tight Cable clar Parts for I/O blocl Waterproof cap Model No. Content N4G-XSZ-11 Provides jet the power s	PA Cartridge fitting φ6 ell viring block able 0.D. Content 6.5 Used to protect cable 8.5 Applicable cable 0.D. Iue) ening torque 4.0 to 4.5 N- np tightening torque 3.0 to 3.5 N- C	es from dust and je	• Waterproof plug Model No. Conten W4G-XSZ-12 Provides Onnector Conten W4G-XSZ-12 Provides	t . jet-proof protection of unused signs.	gnal

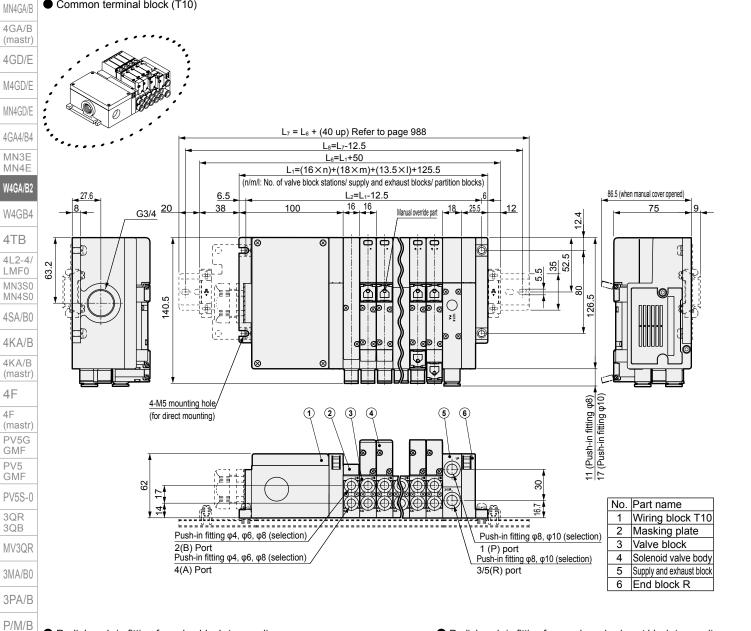


Reduced wiring manifold; base side piping CAD



Dimensions

Common terminal block (T10)



 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.



4F

4F

NP/NAP/

4F*0EX

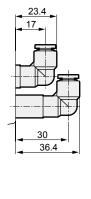
4F*0E

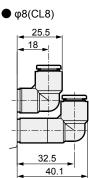
HMV HSV 2QV 3QV SKH PCD

Silencer

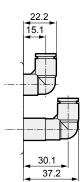
TotAirSys (Total Air) TotAirSys (Gamma) Ending

NVP





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





MW4G^B_Z2-T1/2/3/5/7/8_{Series}

Reduced wiring manifold; base side piping

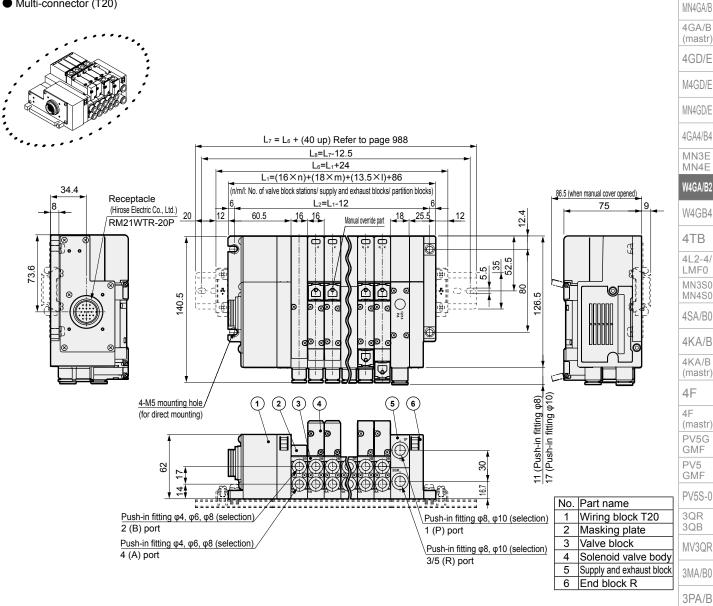
4GA/B

M4GA/B

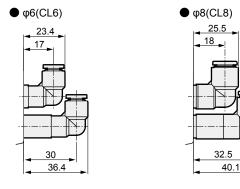


MW4GB2

Multi-connector (T20)

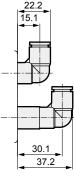


Radial push-in fitting for valve block (upward) For single solenoid/double solenoid manifolds only. Port A is a long elbow and port B a short elbow.



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







TotAirSys (Gamma) Ending

Silencer

TotAirSys (Total Air)

P/M/B

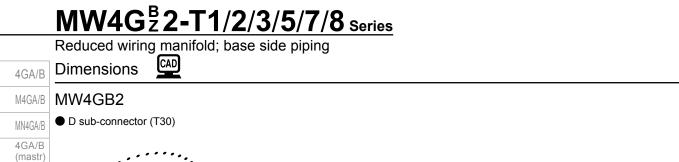
NP/NAP/

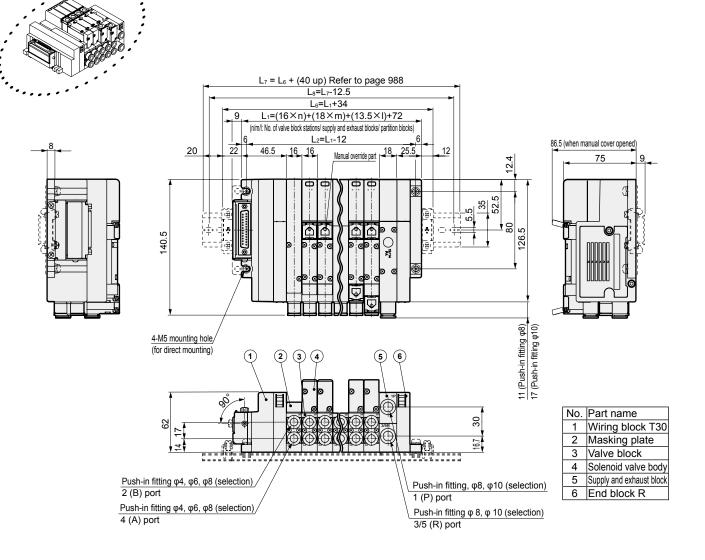
4F*0EX

4F*0E

HMV HSV 2QV 3QV SKH PCD

NVP





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.



4GD/E M4GD/E MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

4TB

4L2-4/ LMF0

MN3S0

MN4S0

4SA/B0

4KA/B 4KA/B (mastr)

4F

4F (mastr) PV5G GMF

PV5

GMF

PV5S-0

3QR

3QB

MV3QR

3MA/B0

3PA/B P/M/B

NP/NAP/

4F*0EX

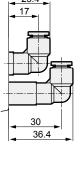
4F*0E

HMV HSV 2QV 3QV SKH

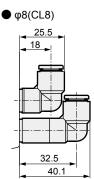
Silencer

TotAirSys (Total Air) TotAirSys (Gamma) Ending

NVP

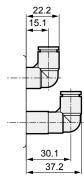


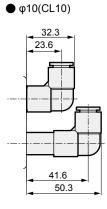
CKD



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

φ8(CL8)





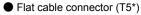
Reduced wiring manifold; base side piping

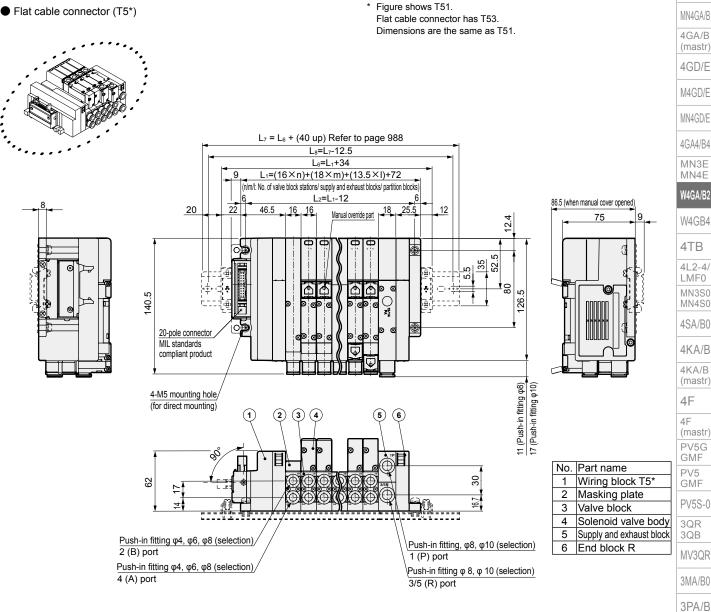
4GA/B

M4GA/B

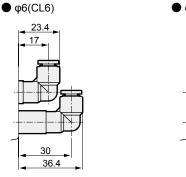


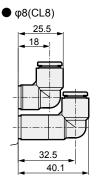
MW4GB2





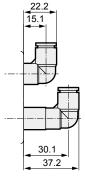
Radial push-in fitting for valve block (upward) For single solenoid/double solenoid manifolds only. Port A is a long elbow and port B a short elbow.





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

• φ8(CL8)





(Gamma) Ending

Silencer

TotAirSys (Total Air) TotAirSys

P/M/B

NP/NAP/

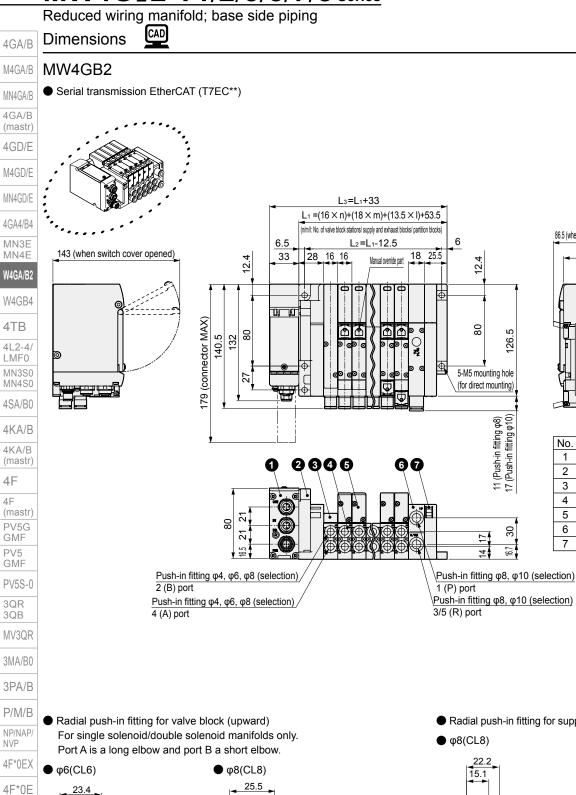
4F*0EX

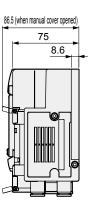
4F*0E

HMV HSV 2QV 3QV SKH PCD

NVP

MW4G^B_Z2-T1/2/3/5/7/8 series Reduced wiring manifold; base side piping





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

Push-in fitting φ8, φ10 (selection) 3/5 (R) port

30

16.7

~

4

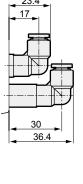
12.4

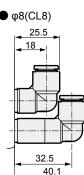
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126.

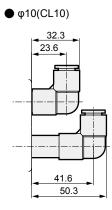
11 (Push-in fitting φ8) 17 (Push-in fitting φ10)







- Radial push-in fitting for supply and exhaust block (upward)
- φ8(CL8) 22.2 Ĩ5.1 30.1 37.2



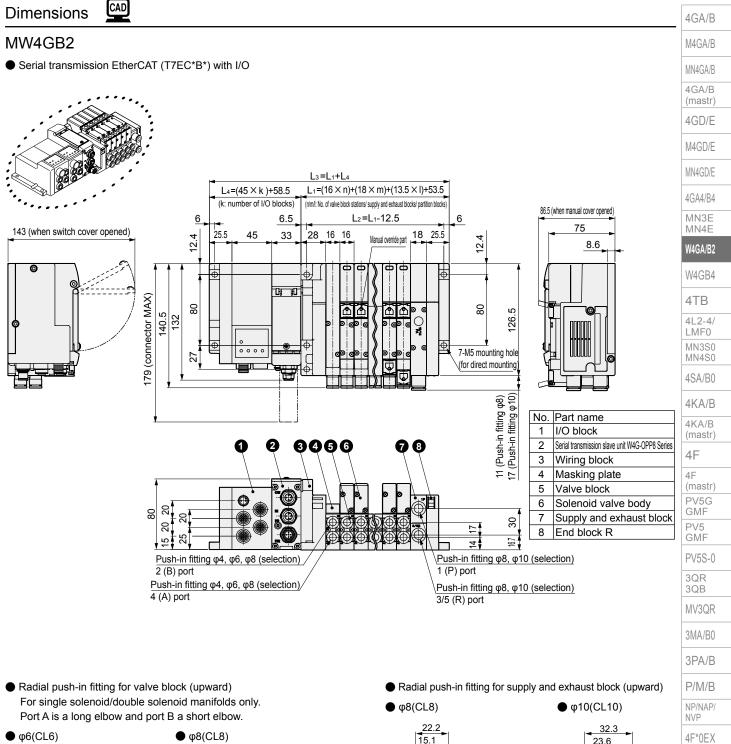
920

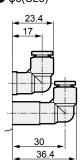
HMV HSV 2QV 3QV SKH PCD

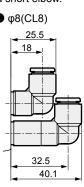
Silencer

TotAirSys (Total Air) TotAirSys (Gamma) Ending

Reduced wiring manifold; base side piping











Ending

Silencer TotAirSys (Total Air) TotAirSys (Gamma)

4F*0E

HMV HSV 2QV 3QV SKH

Reduced wiring manifold; base side piping

CAD

Dimensions 4GA/B

MW4GB2

M4GA/B

MN4GA/B

4TB

LMF0

4F

4F

GMF

PV5

GMF

3QR

3QB

P/M/B

NP/NAP/

4F*0EX

4F*0E

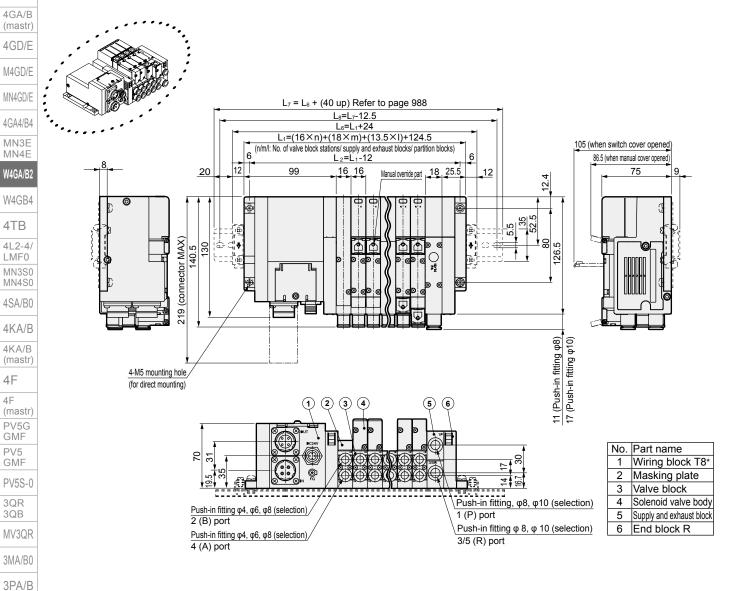
HMV HSV 2QV 3QV SKH PCD

Silencer

TotAirSys (Total Air) TotAirSys (Gamma)

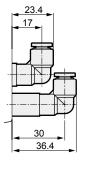
NVP

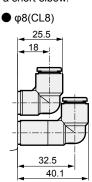
Serial transmission CC-Link (T8G*)



 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.

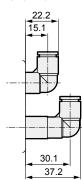


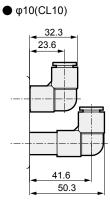




Radial push-in fitting for supply and exhaust block (upward)

• φ8(CL8)

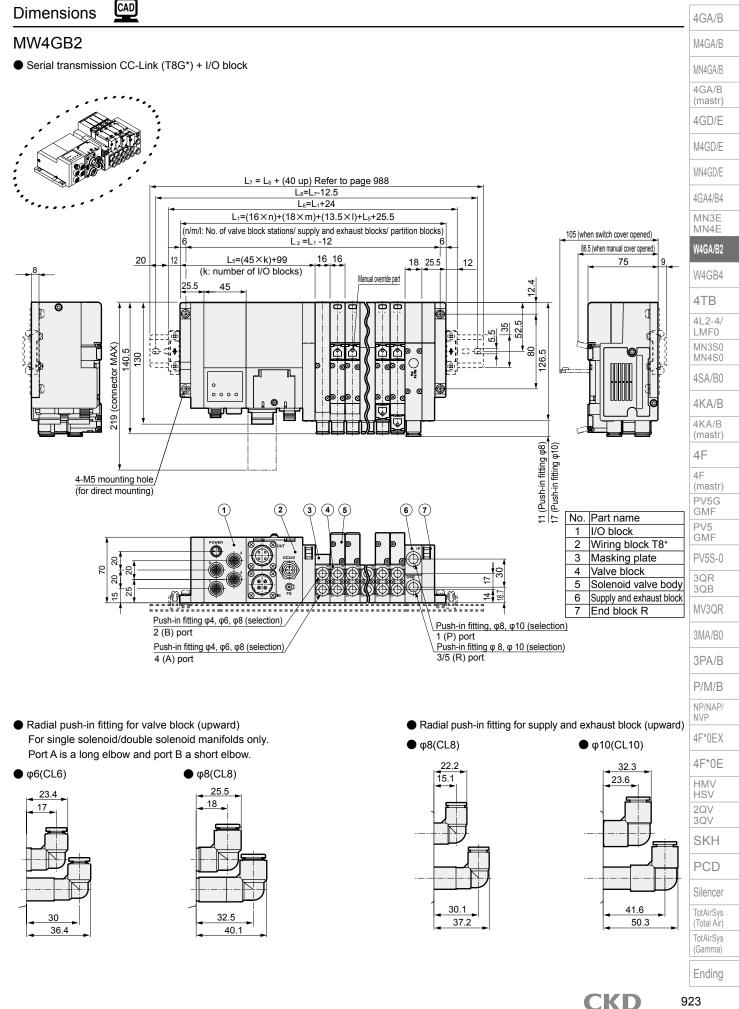




Ending

CKD

MW46^B2-T1/2/3/5/7/8 series Reduced wiring manifold; base side piping



MW4G^B2-T1/2/3/5/7/8 series Reduced wiring manifold; base side piping

Dimensions 4GA/B

MW4GB2

M4GA/B

MN4GA/B 4GA/B (mastr) 4GD/E M4GD/E MN4GD/E

4GA4/B4

MN3E MN4E

W4GA/B2

W4GB4

4TB

4L2-4/

LMF0

MN3S0

MN4S0 4SA/B0

4KA/B 4KA/B

(mastr) 4F

4F (mastr) PV5G GMF

PV5

GMF

PV5S-0

3QR

3QB

MV3QR 3MA/B0

3PA/B

P/M/B NP/NAP/ NVP

4F*0EX

4F*0E

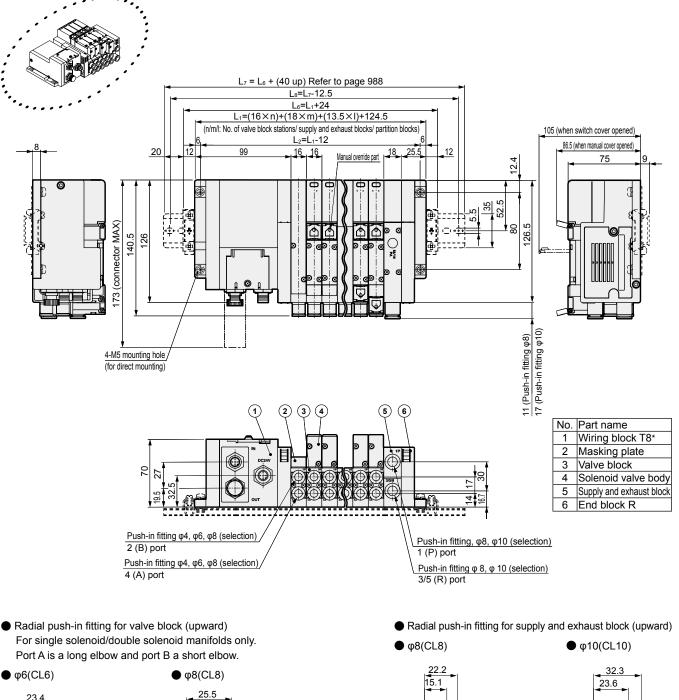
HMV

HSV

2QV

3QV SKH PCD Silencer TotAirSys Serial transmission DeviceNet (T8D*)

CAD

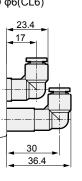


30.1

37.2

41.6

50.3





18

32.5

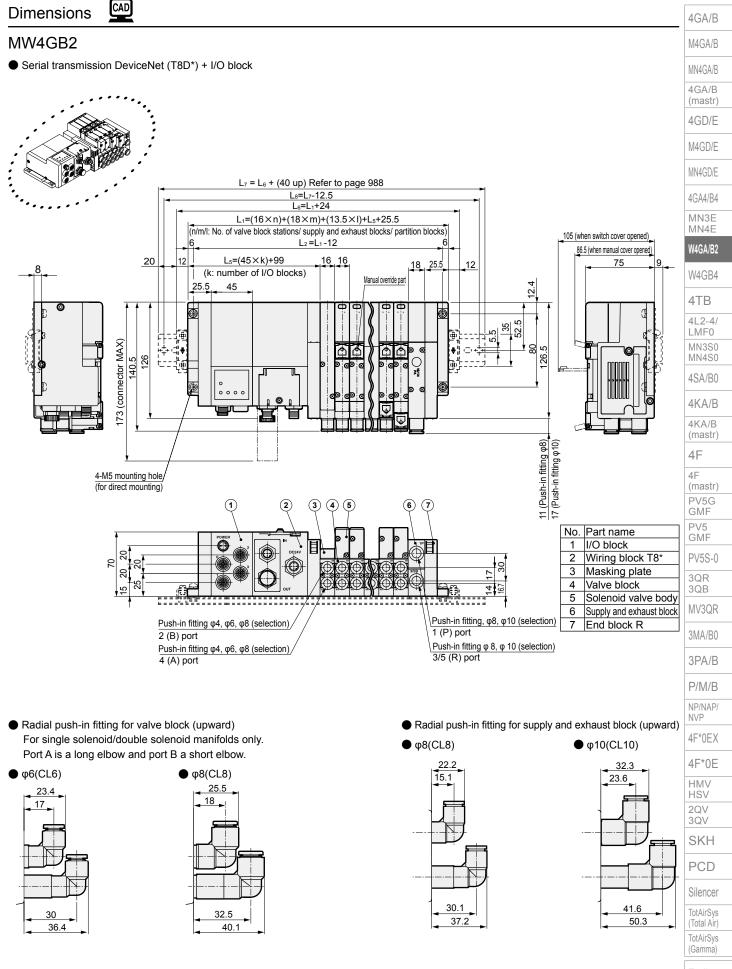
40.1

Ending 924

(Total Air)

TotAirSys (Gamma)

MW46^B2-T1/2/3/5/7/8 series Reduced wiring manifold; base side piping



Ending

MW4G^B2-T1/2/3/5/7/8 series Reduced wiring manifold; base side piping

CAD

M4GA/B MW4GB2

4GA/B

(mastr) 4GD/E M4GD/E MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

4TB

4L2-4/

LMF0

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F

(mastr) PV5G

GMF

PV5

GMF

PV5S-0

3QR

3QB

MV3QR

3MA/B0

3PA/B

P/M/B NP/NAP/ NVP

4F*0EX

4F*0E

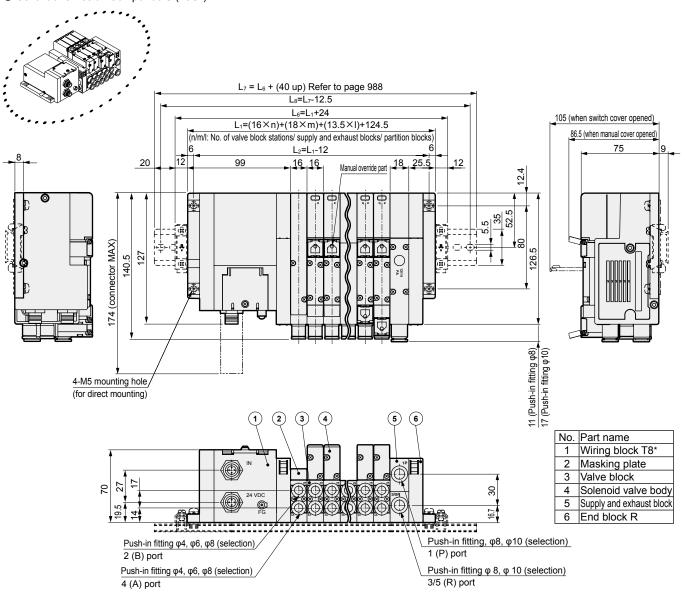
HMV

HSV

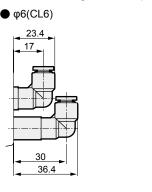
2QV

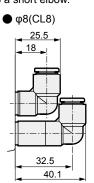
3QV SKH PCD Silencer Dimensions



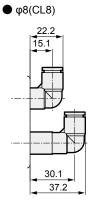


 Radial push-in fitting for valve block (upward) For single solenoid/double solenoid manifolds only. Port A is a long elbow and port B a short elbow.





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





926

TotAirSys

(Total Air)

TotAirSys (Gamma)

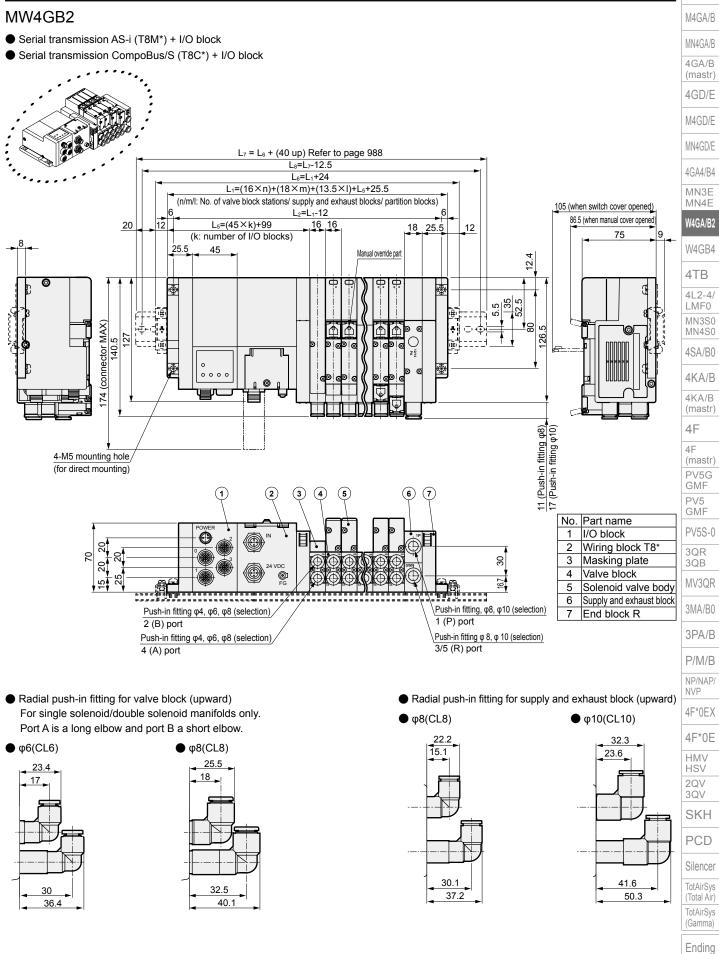
MW46^B2-T1/2/3/5/7/8 series Reduced wiring manifold; base side piping

4GA/B



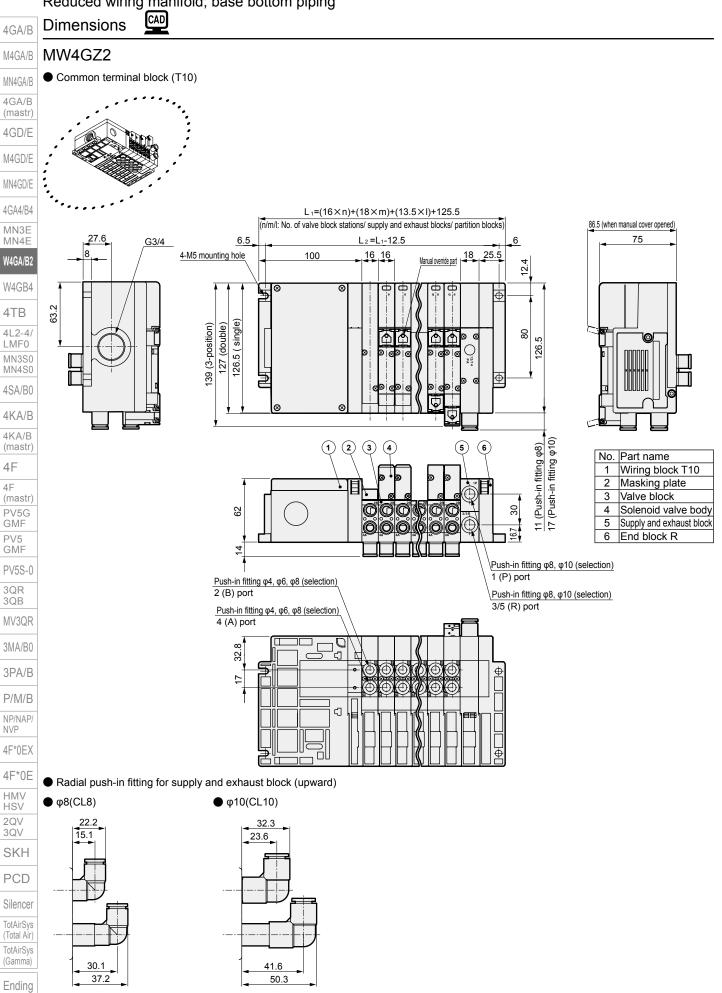
Dimensions

CAD



MW4G^B₂2-T1/2/3/5/7/8_{Series}

Reduced wiring manifold; base bottom piping



CKD

Reduced wiring manifold; base bottom piping

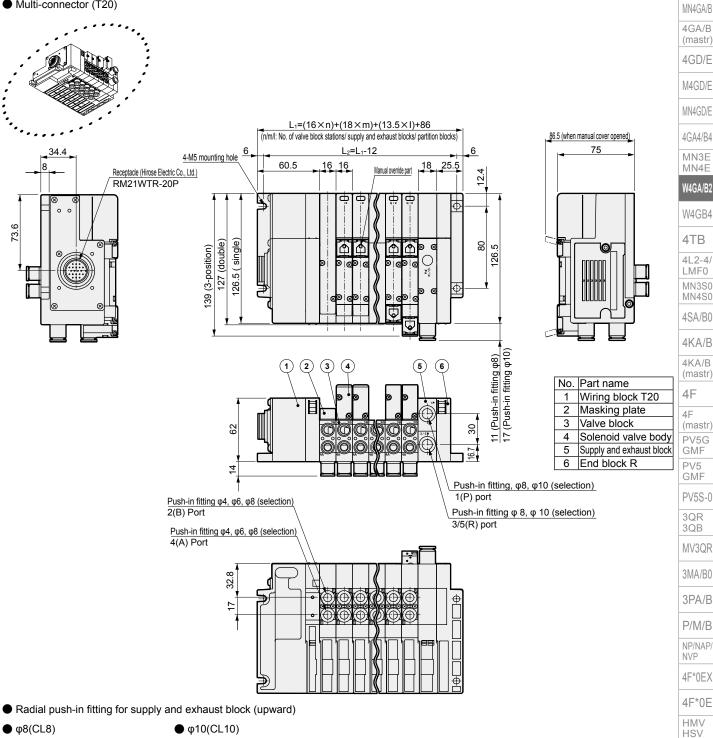
4GA/B

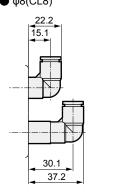
M4GA/B



MW4GZ2









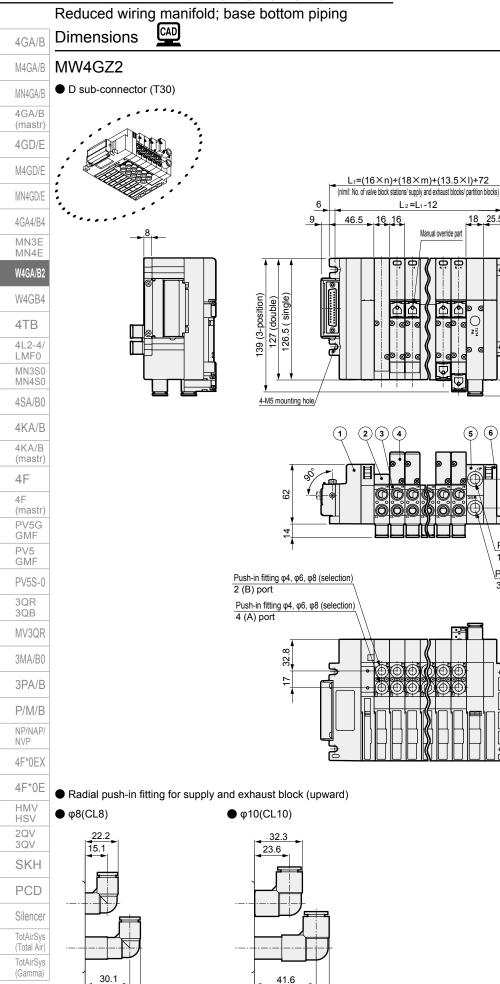


Ending

2QV

3QV

SKH PCD Silencer TotAirSys (Total Air) TotAirSys (Gamma)

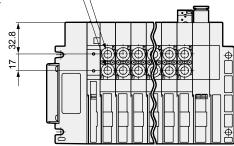


75 12.4 ¢ 80 0 ŝ С 126 1214 Φ r-11 (Push-in fitting φ8) 17 (Push-in fitting φ10) (Push-in fitting φ8) No. Part name (5) (6) 1 Wiring block T30 2 Masking plate 3 Valve block 4 Solenoid valve body 5 Supply and exhaust block 8 6 End block R ¢ 16.7 Push-in fitting $\phi 8$, $\phi 10$ (selection) 1 (P) port Push-in fitting φ8, φ10 (selection)

86.5 (when manual cover opened)

Push-in fitting ϕ 4, ϕ 6, ϕ 8 (selection)

50.3



 $L_1 = (16 \times n) + (18 \times m) + (13.5 \times I) + 72$

L2=L1-12

Manual override part

¢

16 16

þ ø

23

E

(4)

OO

O

0

O

OO

6

46.5

6

3/5 (R) port

18 25.5

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

930

Ending

CKD

37.2

Figure shows T51.

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

Reduced wiring manifold; base bottom piping

75

Wiring block T5*

Solenoid valve body

Supply and exhaust block

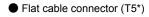
Masking plate

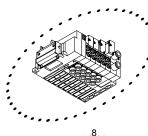
Valve block

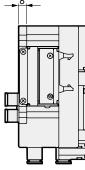
End block R

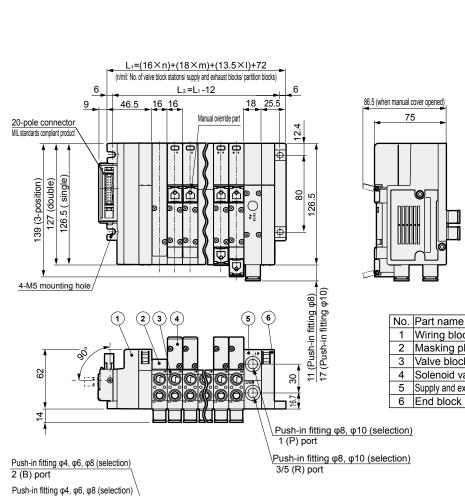
CAD Dimensions

MW4GZ2

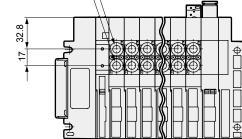




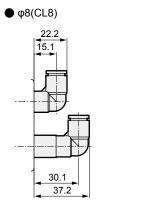


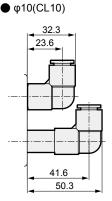


Push-in fitting φ4, φ6, φ8 (selection) 4 (A) port



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





W4GB4 4TB 4L2-4/ LMF0 MN3S0 MN4S0 4SA/B0 4KA/B 4KA/B (mastr) 4F 4F (mastr) PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B P/M/B NP/NAP/ NVP 4F*0EX 4F*0E HMV HSV 2QV 3QV SKH PCD Silencer TotAirSys (Total Air) TotAirSys (Gamma) Ending 931

4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr) 4GD/E M4GD/E

MN4GD/E

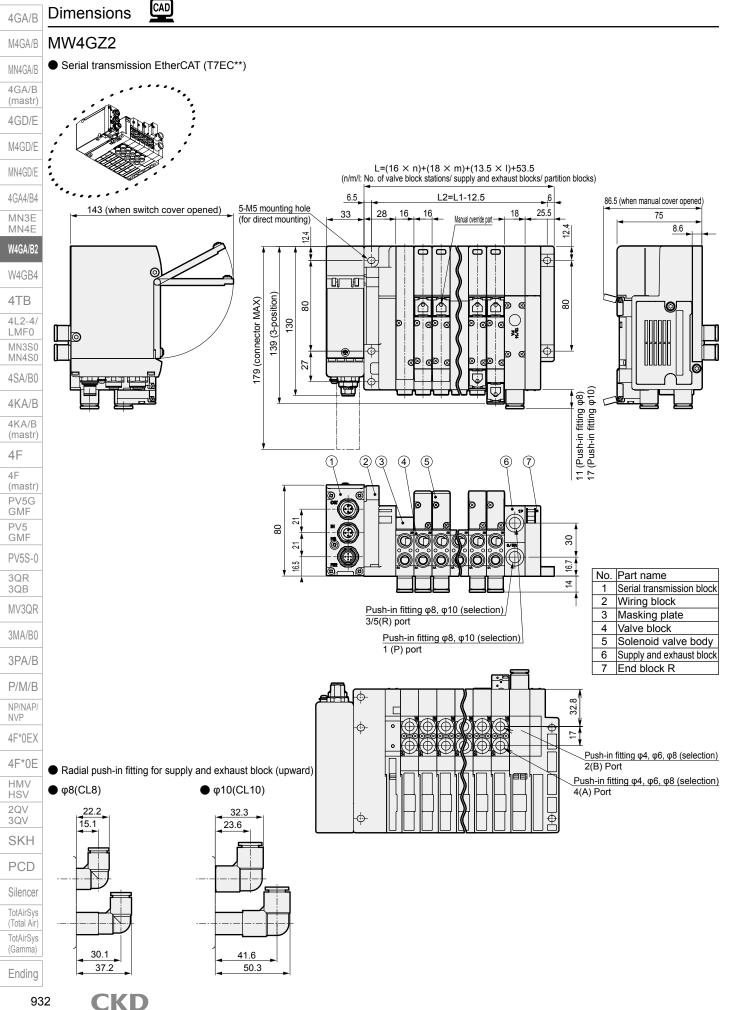
4GA4/B4

MN3E

MN4E

W4GA/B2

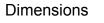
Reduced wiring manifold; base bottom piping



MW4G^B₂2-T1/2/3/5/7/8_{Series}

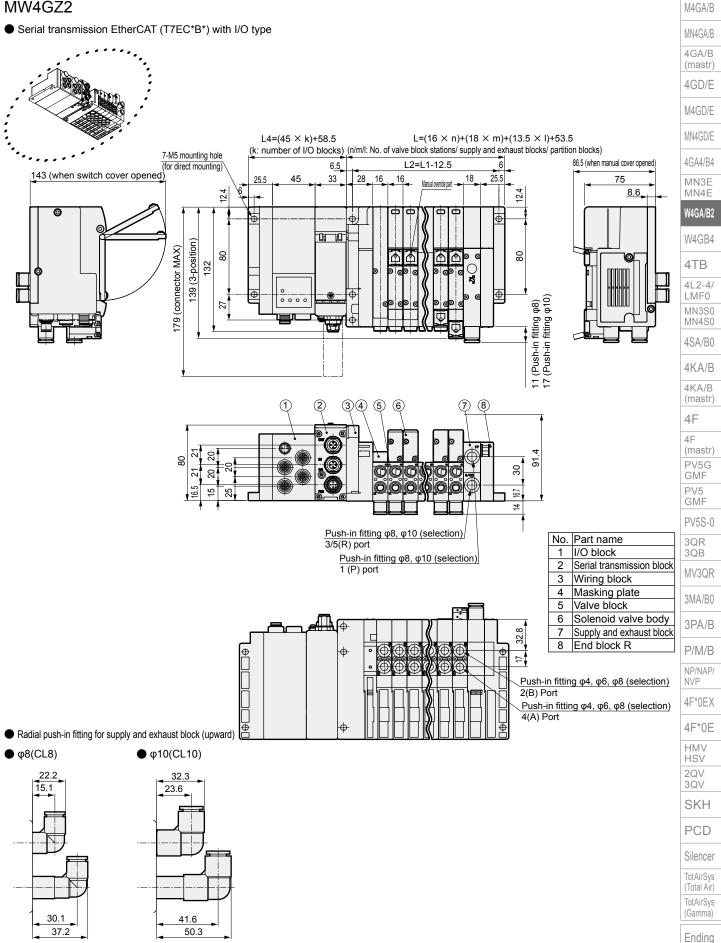
Reduced wiring manifold; base bottom piping

4GA/B

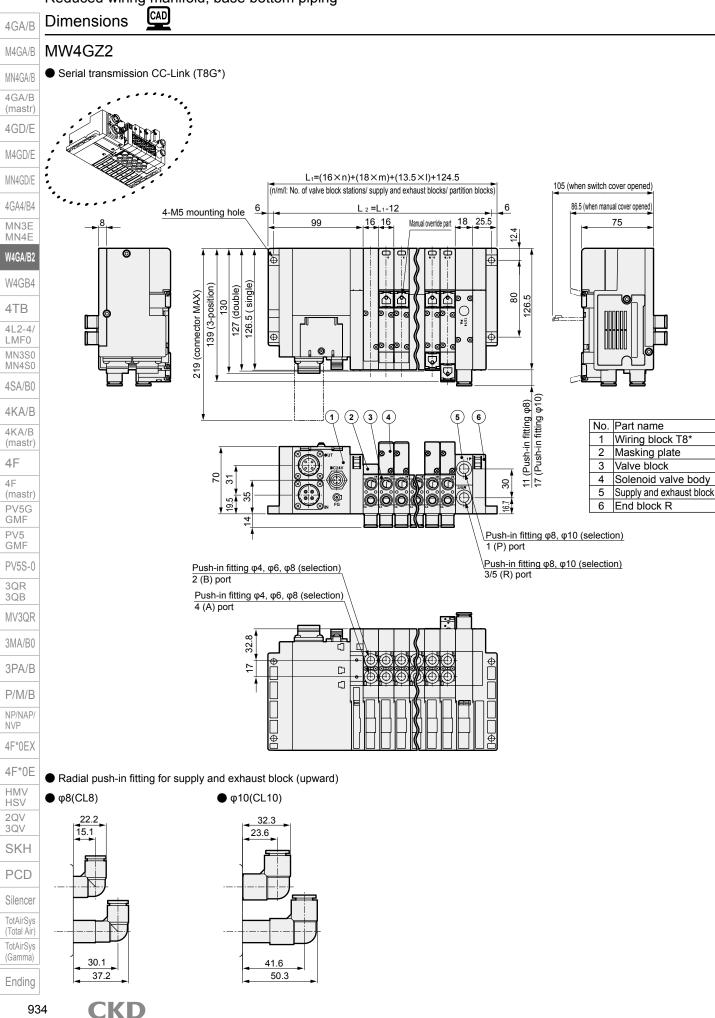


CAD

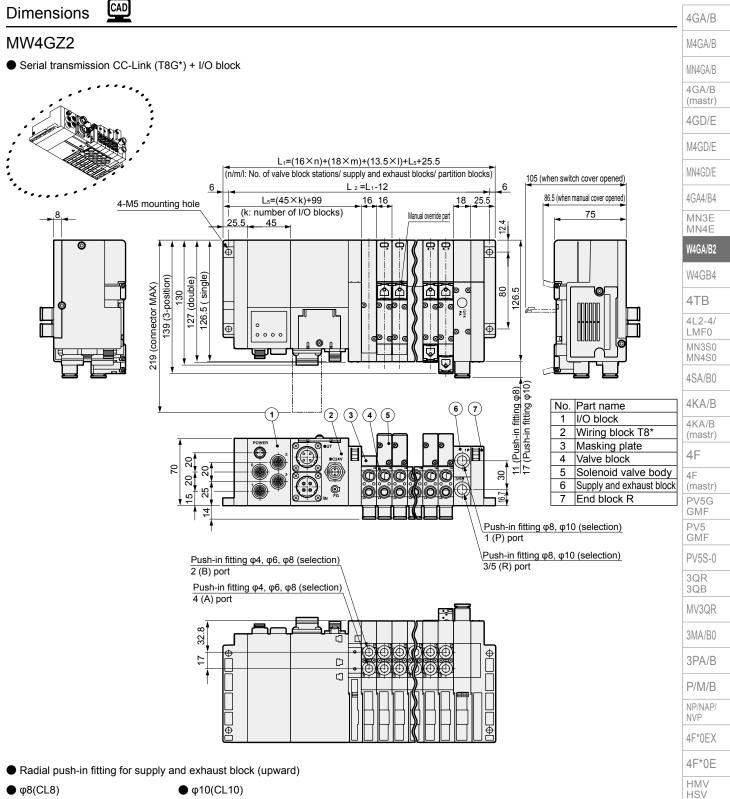
MW4GZ2



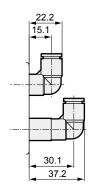
Reduced wiring manifold; base bottom piping

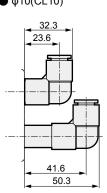


Reduced wiring manifold; base bottom piping



φ8(CL8)







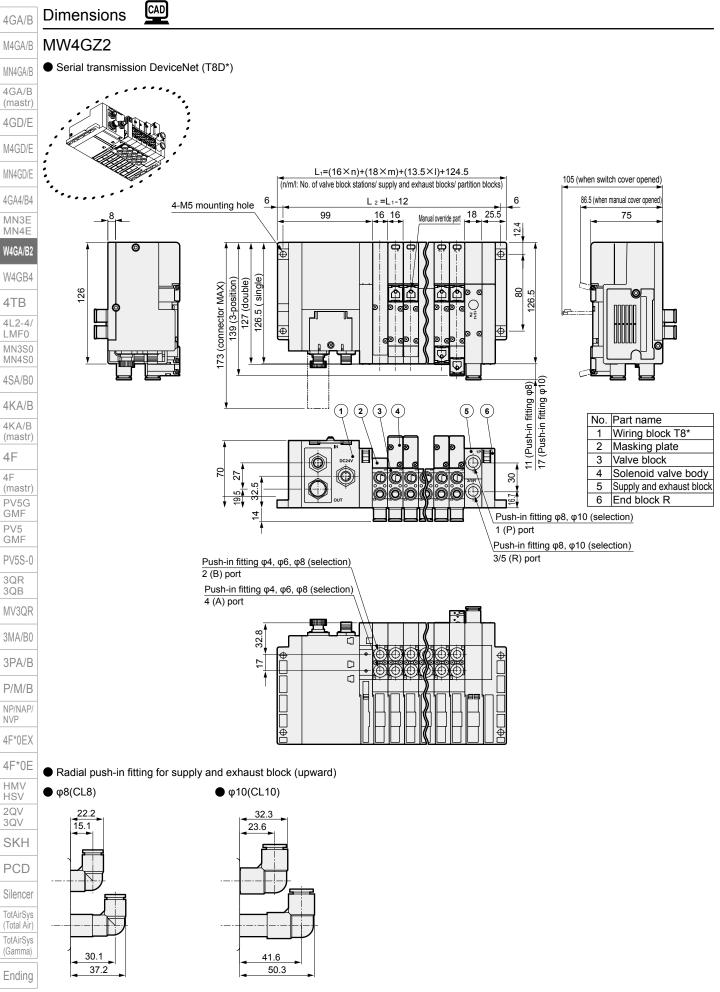
Ending

2QV

3QV

SKH PCD Silencer TotAirSys (Total Air) TotAirSys (Gamma)

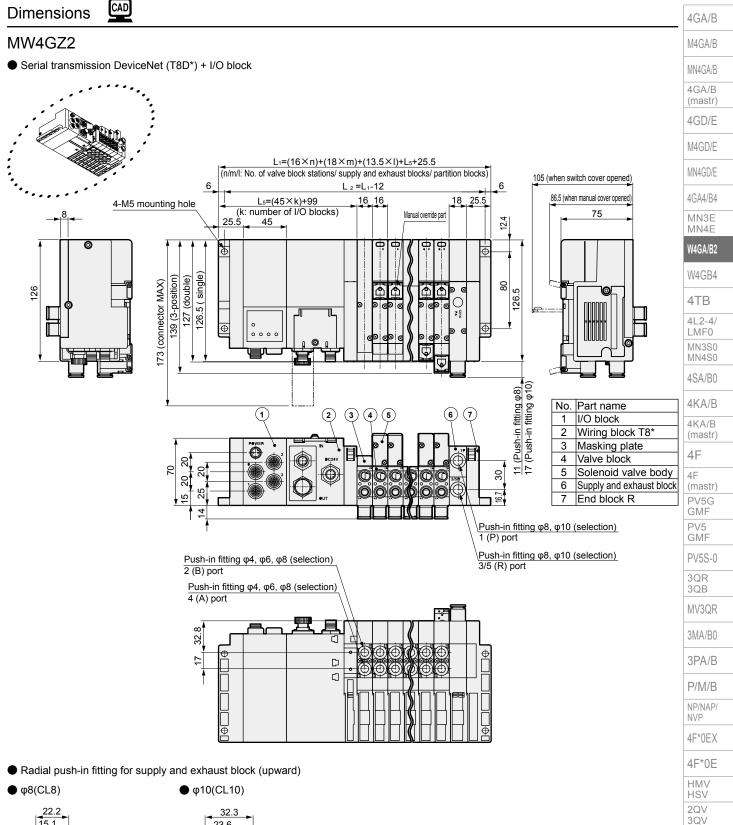
Reduced wiring manifold; base bottom piping

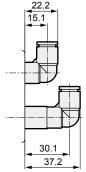


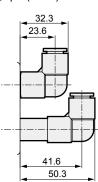
CKD

MW4G^B_Z2-T1/2/3/5/7/8_{Series}

Reduced wiring manifold; base bottom piping





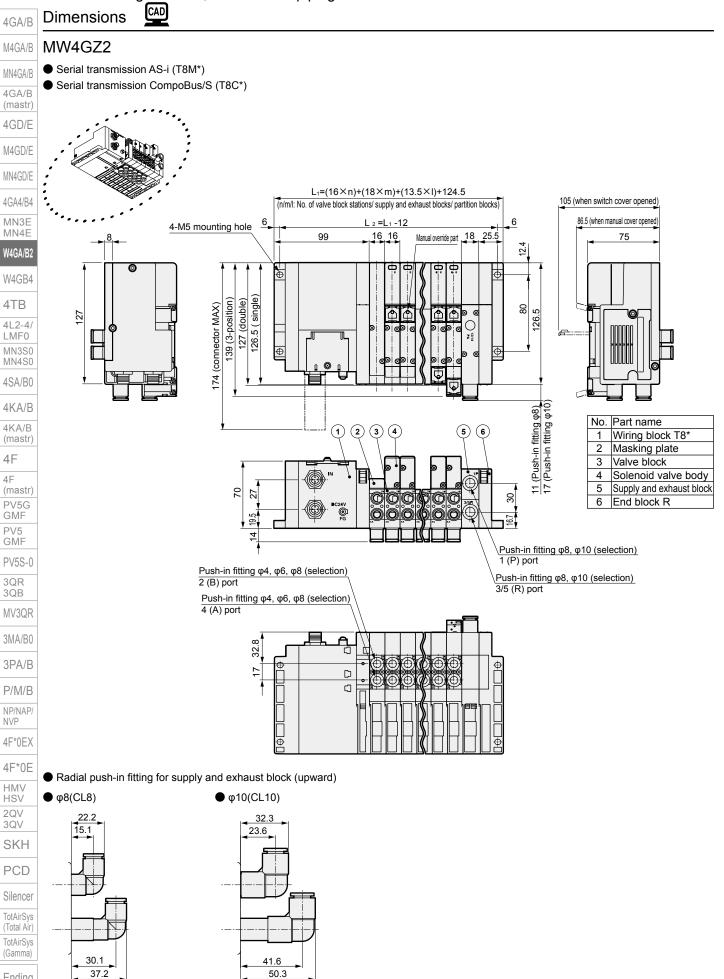


CKD

Ending

SKH PCD Silencer TotAirSys (Total Air) TotAirSys (Gamma)

Reduced wiring manifold; base bottom piping



938

CKD

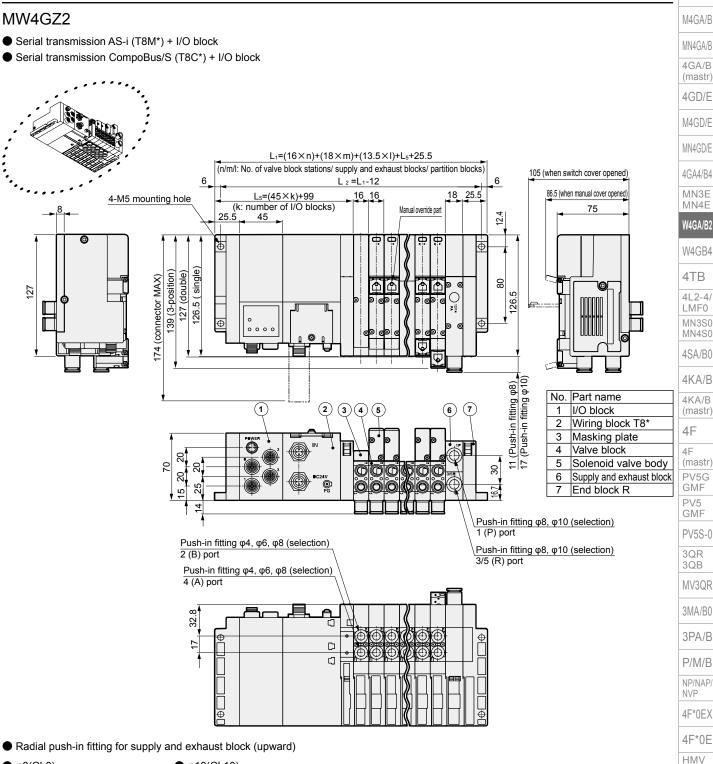
Ending

Reduced wiring manifold; base bottom piping

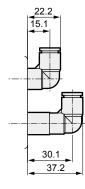
4GA/B

Dimensions

CAD









Ending

HSV 2QV

3QV

SKH PCD Silencer TotAirSys (Total Air) TotAirSys (Gamma)