

# M4GB1/2/3 Series

Individual wiring manifold; base piping

		A Model No.				
		3GB1	3GB2	4GB1	4GB2	4GB3
<b>D Electrical connections</b>						
Blank	Grommet lead wire (300 mm)	*17	●	●	●	●
B	DIN terminal box (Pg7) with surge suppressor/lamp	*18	●	●	●	●
BN	DIN terminal box (Pg7) (without terminal box) with surge suppressor	*18	●	●	●	●
E type connector (upward/lateral) common						
E0	Lead wire (300 mm)	*19	●	●	●	●
E00	Lead wire (500 mm)	*19	●	●	●	●
E01	Lead wire (1000 mm)	*19	●	●	●	●
E02	Lead wire (2000 mm)	*19	●	●	●	●
E03	Lead wire (3000 mm)	*19	●	●	●	●
E0N	Without lead wire (without socket)	*19	●	●	●	●
E1	Without lead wire (socket/terminal attached)	*19	●	●	●	●
E2	Lead wire (300 mm) with surge suppressor/indicator lamp		●	●	●	●
E20	Lead wire (500 mm) with surge suppressor/indicator lamp		●	●	●	●
E21	Lead wire (1000 mm) with surge suppressor/indicator lamp		●	●	●	●
E22	Lead wire (2000 mm) with surge suppressor/indicator lamp		●	●	●	●
E23	Lead wire (3000 mm) with surge suppressor/indicator lamp		●	●	●	●
E2N	Without lead wire (without socket) with surge suppressor/indicator lamp		●	●	●	●
E3	Without lead wire (socket/terminal attached) with surge suppressor/indicator lamp		●	●	●	●
EJ type connector (socket with cover, upward/lateral) common						
E01J	Lead wire (1000 mm)	*19	●	●	●	●
E02J	Lead wire (2000 mm)	*19	●	●	●	●
E03J	Lead wire (3000 mm)	*19	●	●	●	●
E21J	Lead wire (1000 mm) with surge suppressor/indicator lamp		●	●	●	●
E22J	Lead wire (2000 mm) with surge suppressor/indicator lamp		●	●	●	●
E23J	Lead wire (3000 mm) with surge suppressor/indicator lamp		●	●	●	●
<b>E Option</b>						
Blank	Non-locking/locking common manual override		●	●	●	●
M	Non-locking manual override		●	●	●	●
H	With exhaust check valve	*7	●	●	●	●
K	External pilot	*8	●	●	●	●
A	Ozone/coolant proof		●	●	●	●
S	Surgeless	*9	●	●	●	●
E	Low exoergic/energy saving circuit	*9, *10	●	●	●	●
F	A/B port filter built in	*11	●	●	●	●
Z1	Air supply spacer	*12	●	●	●	●
Z2	In-stop valve spacer	*12, *13	●	●	●	●
Z3	Exhaust spacer	*12	●	●	●	●
Z6	Spacer pilot check valve	*12, *14	●	●	●	●
<b>F Mount</b>						
Blank	Direct mount	*15	●	●	●	●
D	DIN rail mount		●	●	●	●
<b>G Station No.</b>						
2	2 stations		●	●	●	●
to	to		●	●	●	●
20	Refer to page 112 for the max. station number per model.		●	●	●	●
<b>H Voltage</b>						
1	100 VAC (rectifier integrated)		●	●	●	●
2	200 VAC (rectifier integrated)	*16	●	●	●	●
3	24 VDC		●	●	●	●
4	12 VDC		●	●	●	●
7	3 VDC		○	○	○	○
8	5 VDC		○	○	○	○

is not available.

○ indicates a custom order.

\*7 : 3-position all ports closed and PAB connection are not provided with the exhaust check valve specifications (H). Refer to page 751 for details on the exhaust check valve.

\*8 : Contact CKD when using a vacuum with the external pilot (K).

\*9 : E2\* type and E2\*J type connectors support 12/24 VDC only.

In addition, surgeless "S" and low exoergic/energy-saving circuit "E" cannot be selected together.

\*10: Surgeless specifications.

\*11: A filter is built into the P-port as standard.

\*12: Specify the spacer mounting position/quantity in manifold specifications sheet.

Stacking of spacers is not possible.

Combination with the masking plate is not supported.

Refer to pages 186 to 190 for details.

\*13: Not compatible with combination with external pilot (K).

\*14: Combination with radial push-in fittings (upward) is not supported.

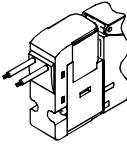
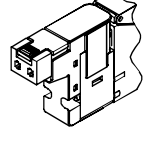
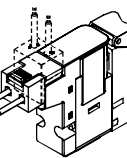
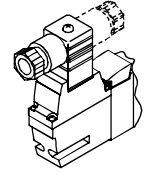
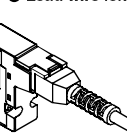
\*15: The direct mount of M4GB1 cannot be changed to the DIN rail mount after purchasing.

\*16: DIN terminal box only is supported.

\*17: The grommet lead wire specifications are compatible with DC voltage only.

\*18: AC voltages and 12/24 VDC are supported. In addition, a lamp comes with the terminal box.

\*19: AC voltage is with a rectifier circuit.

Electrical connections		Discrete valve/individual wiring manifold	
Blank	Grommet lead wire	E1 E3	E type connector with socket/terminal
● Lead wire length	300 mm		
E0 E2	E type connector	B	DIN terminal box
● Lead wire length	300 mm 500 mm 1000 mm 2000 mm 3000 mm		
E0N E2N	E type connector without socket	BN	DIN terminal box (without terminal box)
E0*J E2*J	EJ type connector		
● Lead wire length	1 m 2 m 3 m		

4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G

GMF

PV5

GMF

PV5S-0

3QR

3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

4F\*0E

HMV

HSV

2QV

3QV

SKH

PCD

Silencer

TotAirSys  
(Total Air)

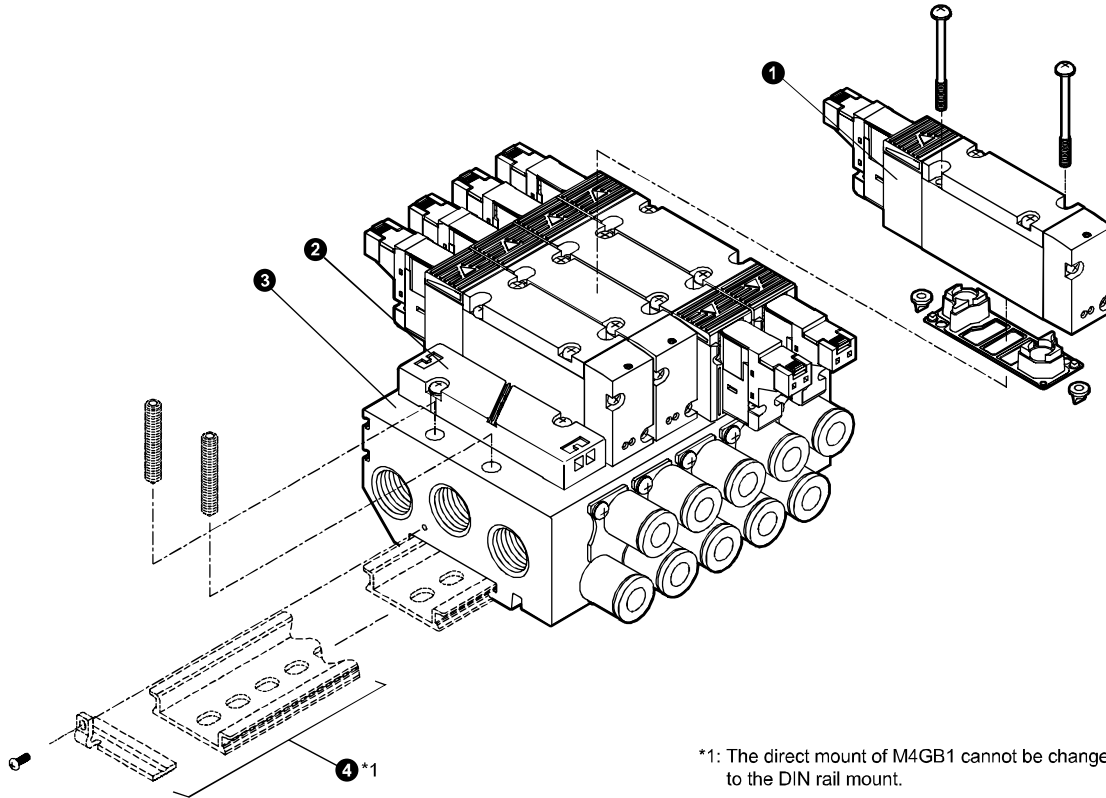
TotAirSys  
(Gamma)

Ending

# M4GB1/2/3 Series

Individual wiring manifold; base piping

## Manifold components explanation and parts list



\*1: The direct mount of M4GB1 cannot be changed to the DIN rail mount.

### Main parts list

No.	Component name	Model No.	Content	Remarks
1	Discrete valve for mounting base	4GB □ □ 9R -00 <small>Electrical connectors</small> <small>Option</small> <small>Voltage</small> <small>Solenoid position</small> <small>Series flow rate size</small>	Single valve Gasket Mounting screws 2 PR check valve 2	Details on page 114
2	Masking plate	3G1/4G1	4G1R-MP	Masking plate
		3G2/4G2	4G2R-MP	Gasket
		3G3/4G3	4G3R-MP	Mounting screws 2
3	Manifold base assembly	M4GB □ R <small>Port size</small> <small>Option</small> <small>D</small> <small>Station No.</small> <small>Series flow rate size</small> <small>Mount</small>	Manifold base	Only 4G1 mount can be selected. Moreover, even if the "D" mounting is selected, the DIN rail kit will be handled separately.
4	DIN rail kit			Details on page 197

- 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  
(TotalAir)
- TotAirSys  
(Gamma)
- Ending

### Parts list

No.	Part name	Model No.	No.	Part name	Model No.
-	Coil assembly	4GR-[Electrical connections]-[ ]-[COIL]-[Voltage] B: Blent; Standard A: Ozonelcoolant proof S: Surgeless E: Low energy/energy saving circuit Select from (D) Electrical connections on page 115			
-	E type connector socket assembly	4GR-SOCKET-ASSY-[Electrical connections]-[Voltage]			
-	EJ type connector socket assembly	4GR-SOCKET-ASSY-[Electrical connections]			
			-	Cartridge push-in fitting and related parts	
				4G1	φ1.8 barbed 4G1R-JOINT-CF φ1.8 axial 4G1R-JOINT-C18 φ4 straight 4G1R-JOINT-C4 φ6 straight 4G1R-JOINT-C6 φ8 straight 4G1R-JOINT-C8 φ1.8 elbow 4G1R-JOINT-CL18,CLL18 φ4 elbow 4G1R-JOINT-CL4,CLL4 φ6 elbow 4G1R-JOINT-CL6,CLL6 φ1/8" straight 4G1R-JOINT-C3N φ5/32" straight 4G1R-JOINT-C4N φ1/8" elbow *1 4G1R-JOINT-CL3N,CLL3N φ5/32" elbow *1 4G1R-JOINT-CL4N,CLL4N Plug cartridge 4G1R-JOINT-CPG
				4G2	φ4 straight 4G2R-JOINT-C4 φ6 straight 4G2R-JOINT-C6 φ8 straight 4G2R-JOINT-C8 φ10 straight *2 4G2R-JOINT-C10 φ6 elbow 4G2R-JOINT-CL6,CLL6 φ8 elbow 4G2R-JOINT-CL8,CLL8 φ1/4" straight 4G2R-JOINT-C6N φ5/16" straight 4G2R-JOINT-C8N φ1/4" elbow *1 4G2R-JOINT-CL6N,CLL6N φ5/16" elbow *1 4G2R-JOINT-CL8N,CLL8N Plug cartridge 4G2R-JOINT-CPG
				4G3	φ6 straight 4G3R-JOINT-C6 φ8 straight 4G3R-JOINT-C8 φ10 straight 4G3R-JOINT-C10 φ8 elbow 4G3R-JOINT-CL8,CLL8 φ10 elbow 4G3R-JOINT-CL10,CLL10 φ5/16" straight 4G3R-JOINT-C8N φ3/8" straight 4G3R-JOINT-C10N

\*1: Custom order.

\*2: Common product with the 4G3 φ10 straight.

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

# M4GB1 Series

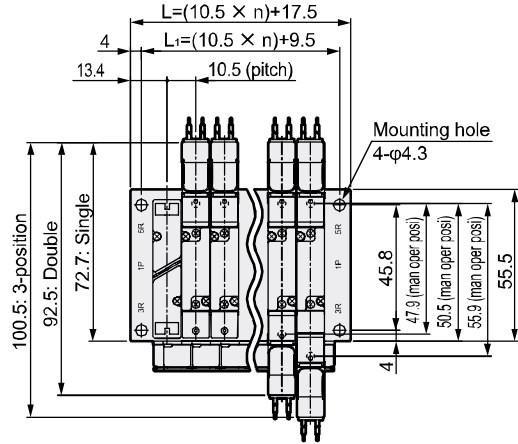
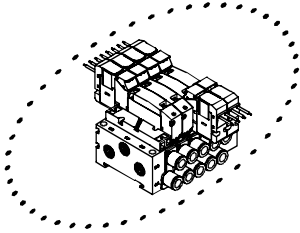
Individual wiring manifold; base piping

## Dimensions



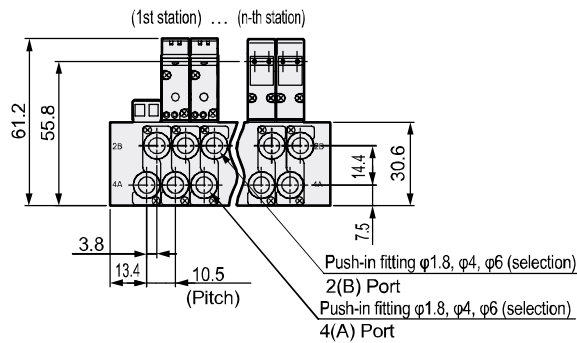
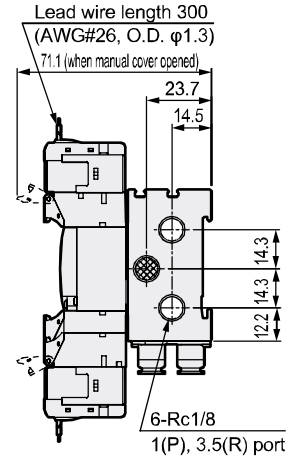
### M4GB1

- Direct mount installation
- Grommet lead wire (blank)



\*1: Dedicated for direct mounting.  
This cannot be changed to DIN rail specifications.

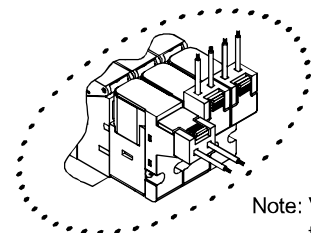
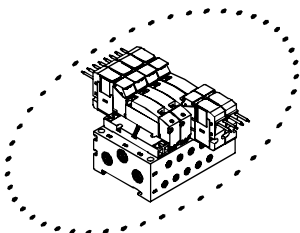
\*2: The two 3-port valve integrated has the same dimensions as the double.



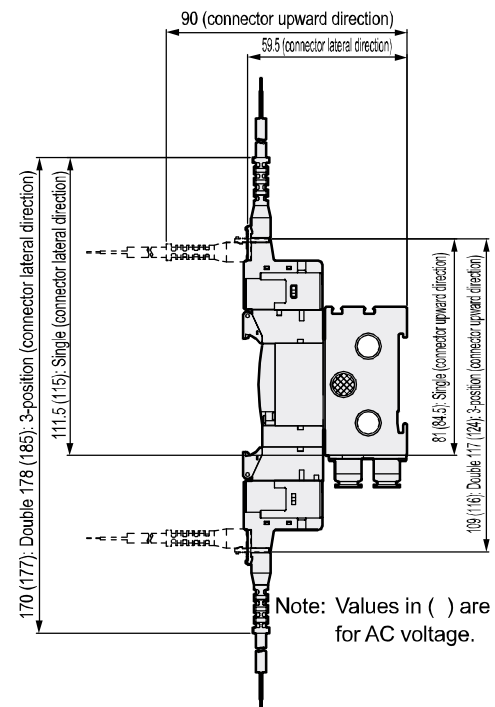
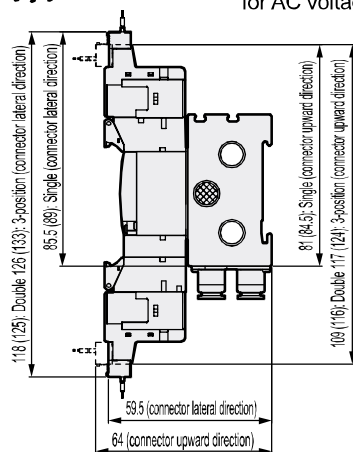
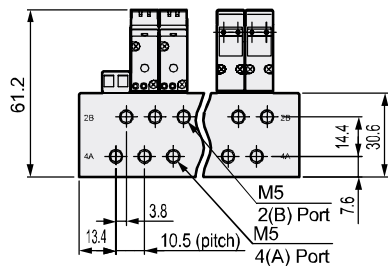
- M5 female thread (M5)

- E type connector (E)

- EJ type connector (E\*\*J)



Note: Values in ( ) are for AC voltage.



Strn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	38.5	49.0	59.5	70.0	80.5	91.0	101.5	112.0	122.5	133.0	143.5	154.0	164.5	175.0	185.5	196.0	206.5	217.0	227.5
L <sub>1</sub>	30.5	41.0	51.5	62.0	72.5	83.0	93.5	104.0	114.5	125.0	135.5	146.0	156.5	167.0	177.5	188.0	198.5	209.0	219.5

# M4GB1-D Series

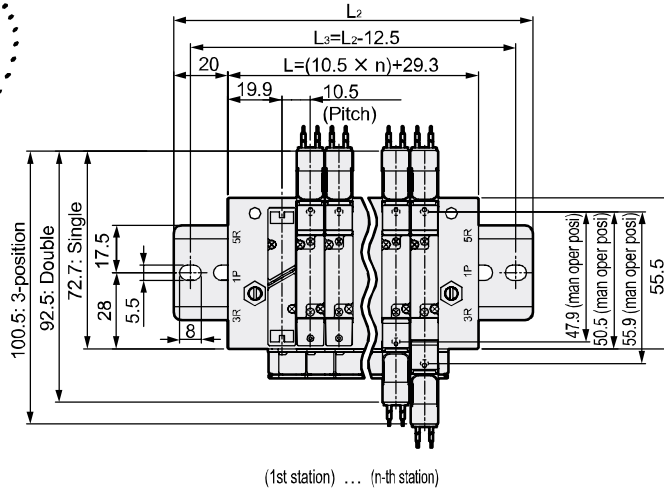
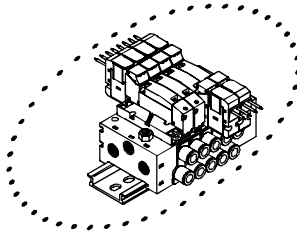
Individual wiring manifold; base piping

## Dimensions

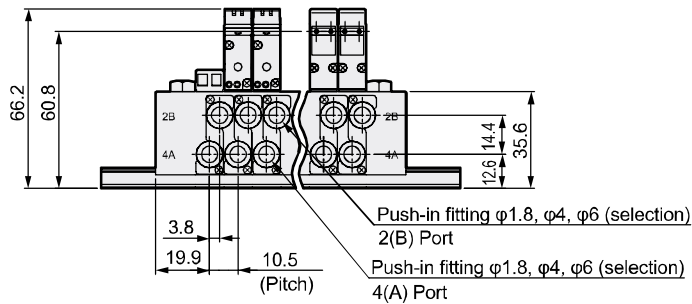
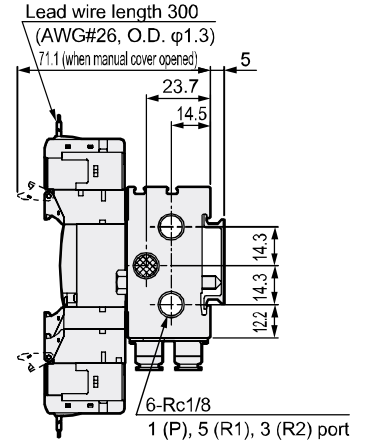


### M4GB1

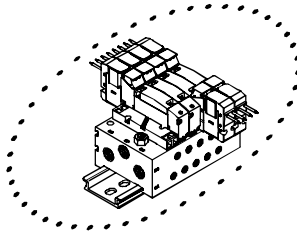
- DIN rail installation (D)  
Grommet lead wire (blank)



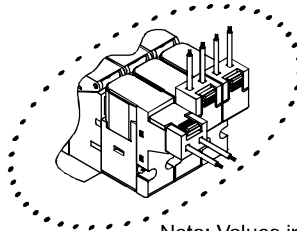
- \*1: This can be changed to direct mount specifications.
- \*2: The two 3-port valve integrated has the same dimensions as the double.



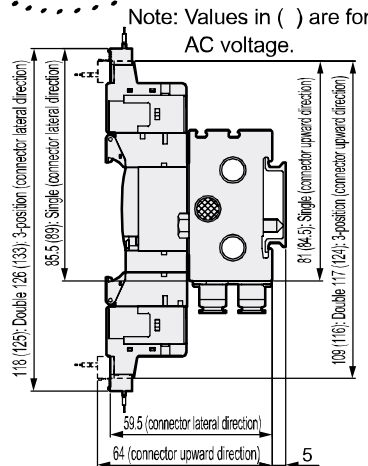
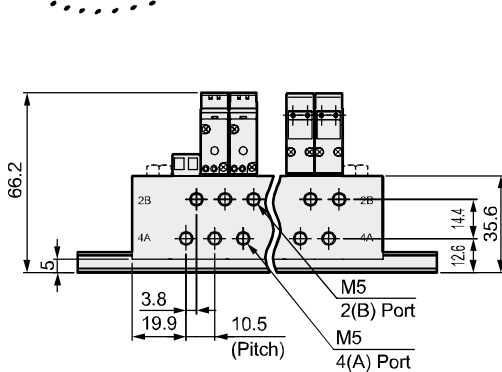
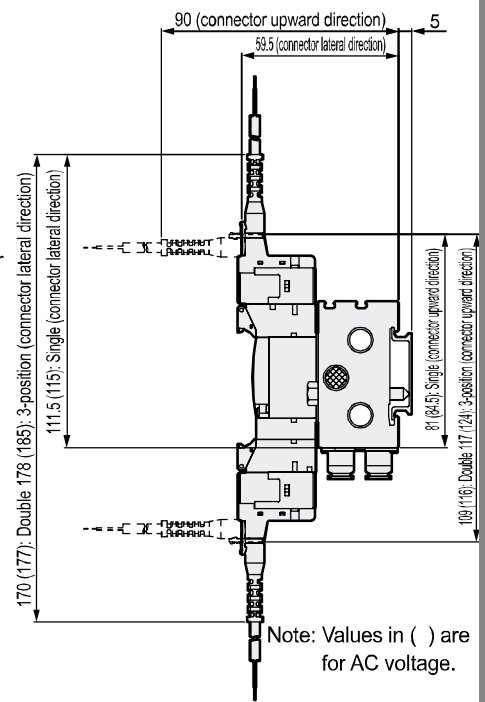
- DIN rail installation (D)  
M5 female thread (M5)



- DIN rail installation (D)  
E type connector (E)



- EJ type connector (E\*\*J)



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	50.3	60.8	71.3	81.8	92.3	102.8	113.3	123.8	134.3	144.8	155.3	165.8	176.3	186.8	197.3
L <sub>2</sub>	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0	212.5	225.0	237.5	237.5
L <sub>3</sub>	87.5	100.0	100.0	112.5	125.0	137.5	150.0	162.5	162.5	175.0	187.5	200.0	212.5	225.0	225.0

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

# M4GB1 Series

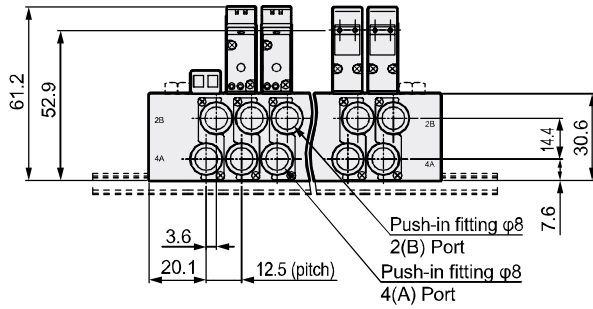
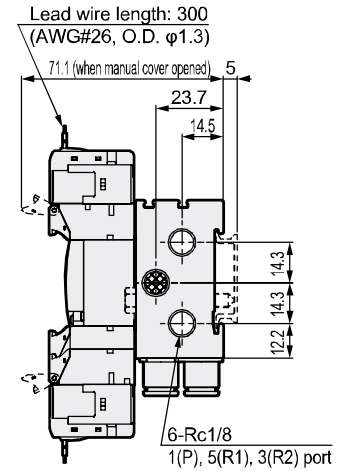
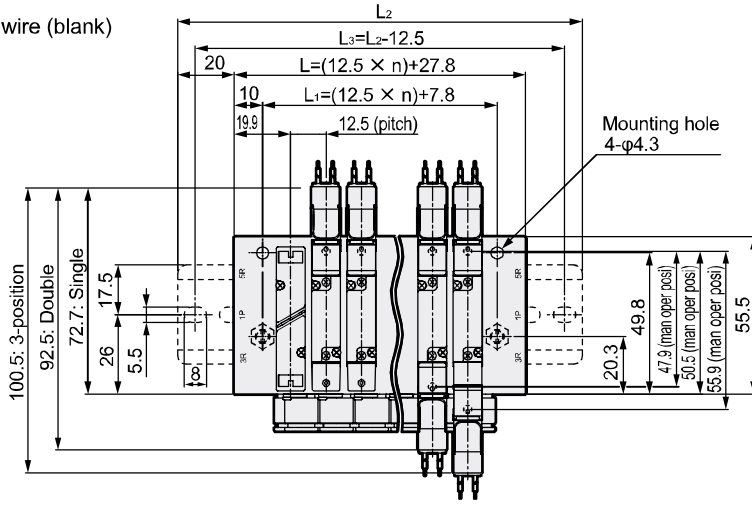
Individual wiring manifold; base piping

## Dimensions



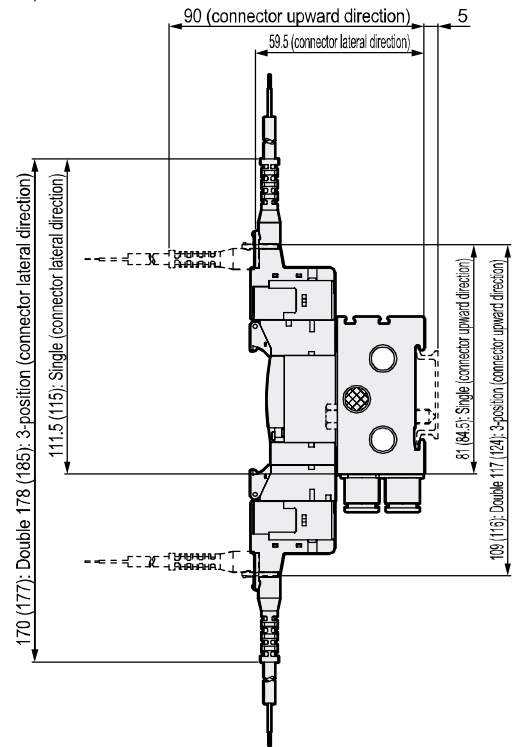
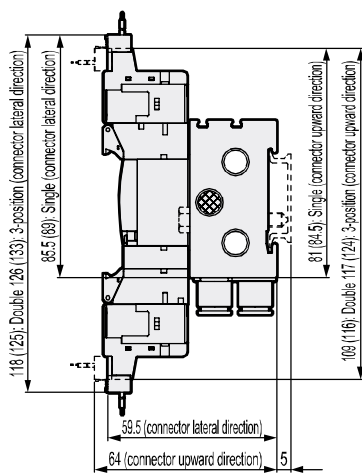
### M4GB1-C8

● Grommet lead wire (blank)



● E type connector (E)

● EJ type connector (E\*\*J)



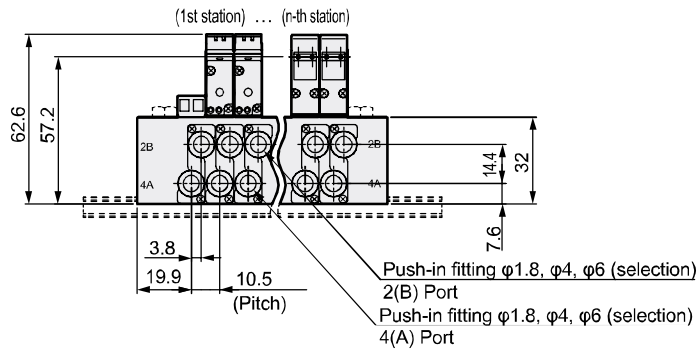
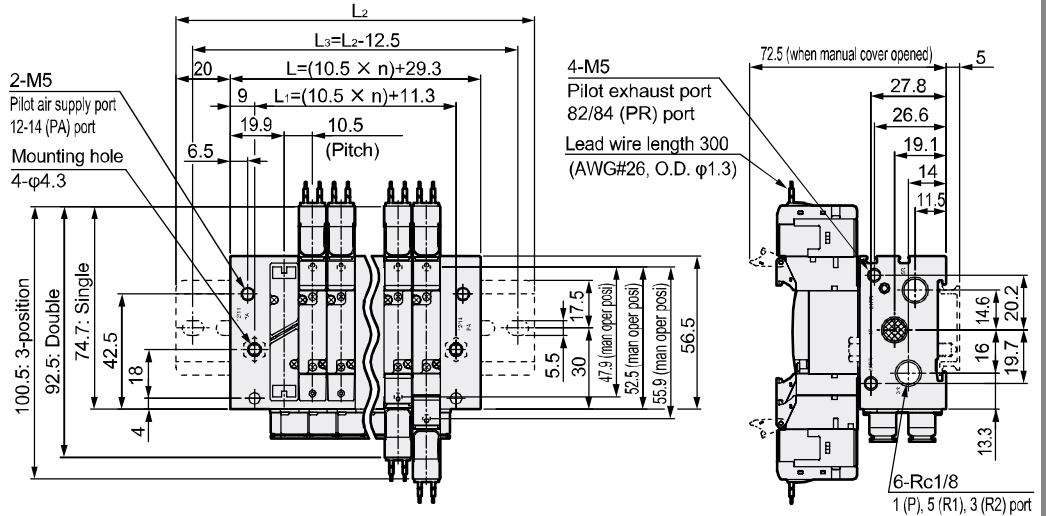
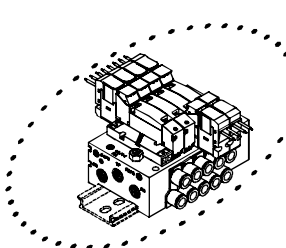
Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	52.8	65.3	77.8	90.3	102.8	115.3	127.8	140.3	152.8	165.3	177.8	190.3	202.8	215.3	227.8	240.3	252.8	265.3	277.8
L <sub>1</sub>	32.8	45.3	57.8	70.3	82.8	95.3	107.8	120.3	132.8	145.3	157.8	170.3	182.8	195.3	207.8	220.3	232.8	245.3	257.8
L <sub>2</sub>	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0				
L <sub>3</sub>	87.5	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5				

## Dimensions

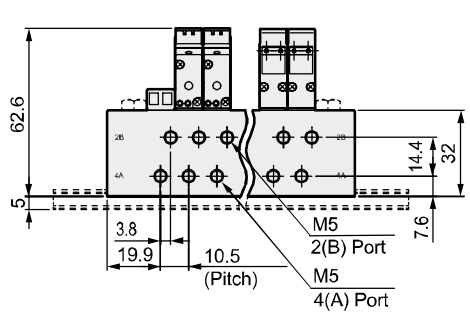
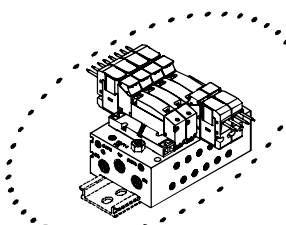


### M4GB1

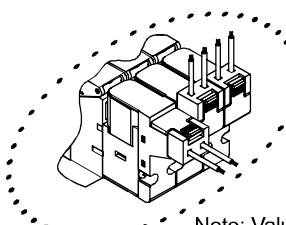
- External pilot (K)  
Grommet lead wire (blank)



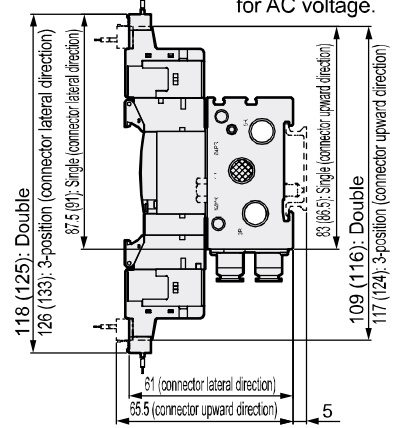
- External pilot (K)  
M5 female thread (M5)



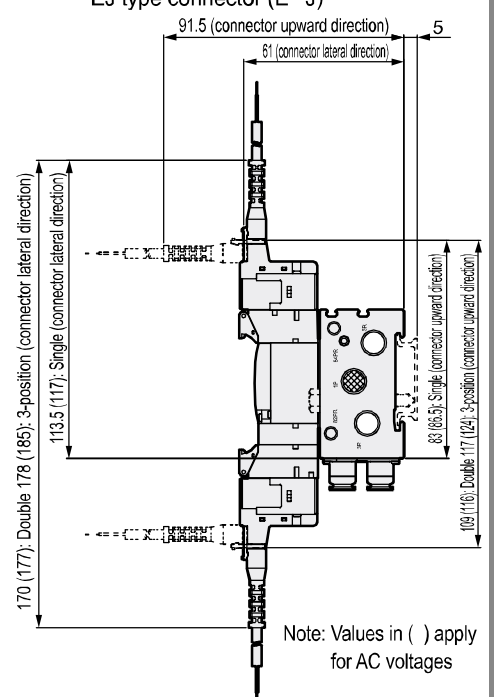
- External pilot (K)  
E type connector (E)



Note: Values in ( ) are for AC voltage.



- External pilot (K)  
EJ type connector (E\*\*J)



Stn No.	2	3	4	5	6	7	8	9	10	11	12
L	50.3	60.8	71.3	81.8	92.3	102.8	113.3	123.8	134.3	144.8	155.3
L <sub>1</sub>	32.3	42.8	53.3	63.8	74.3	84.8	95.3	105.8	116.3	126.8	137.3
L <sub>2</sub>	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0
L <sub>3</sub>	87.5	100.0	100.0	112.5	125.0	137.5	150.0	162.5	162.5	175.0	187.5

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

# M4GB1 Series

Individual wiring manifold; base piping

## Dimensions

4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E  
MN4E

W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0  
MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G  
GMF

PV5  
GMF

PV5S-0

3QR  
3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

4F\*0E

HMV  
HSV

2QV  
3QV

SKH

PCD

Silencer

TotAirSys  
(TotalAir)

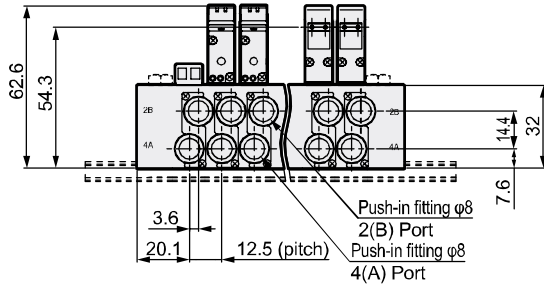
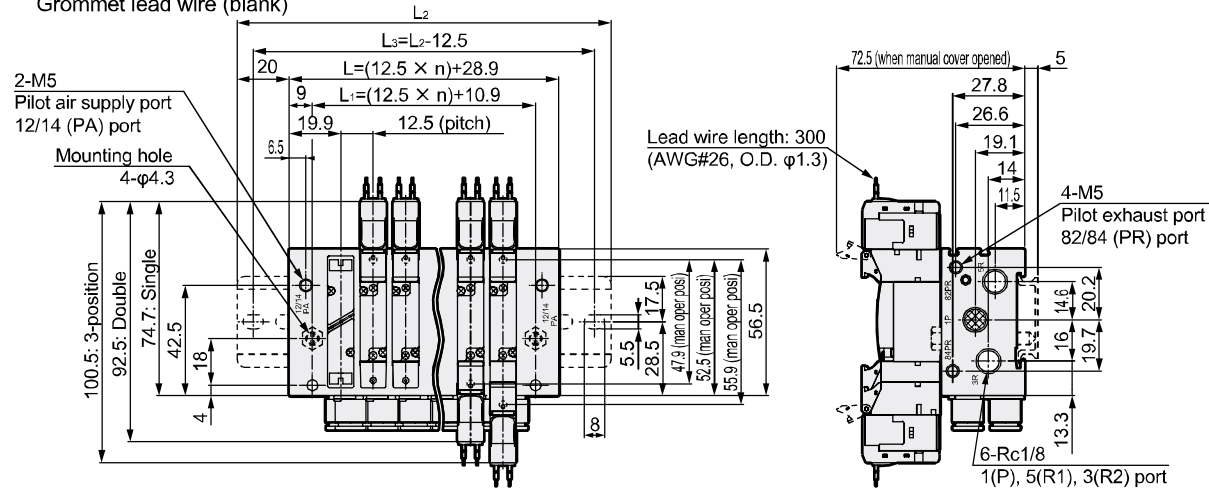
TotAirSys  
(Gamma)

Ending

### M4GB1-C8-K

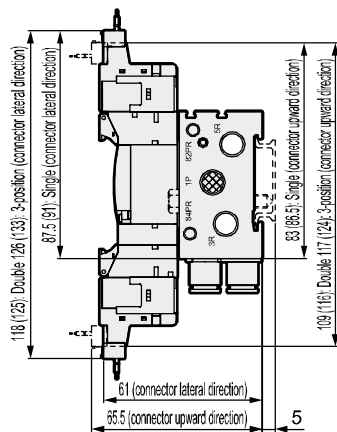
● External pilot (K)

Grommet lead wire (blank)



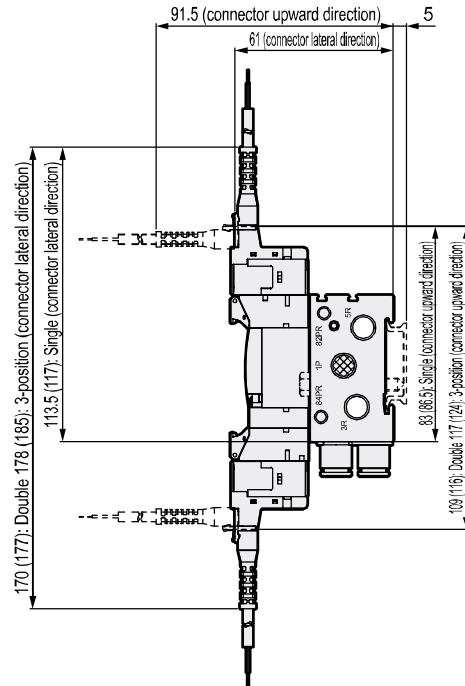
● External pilot (K)

E type connector (E)



● External pilot (K)

EJ type connector (E\*\*J)



Stn No.	2	3	4	5	6	7	8	9	10	11	12
L	53.9	66.4	78.9	91.4	103.9	116.4	128.9	141.4	153.9	166.4	178.9
L <sub>1</sub>	35.9	48.4	60.9	73.4	85.9	98.4	110.9	123.4	135.9	148.4	160.9
L <sub>2</sub>	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0
L <sub>3</sub>	87.5	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5



## Dimensions



● Fitting straight

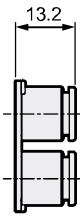
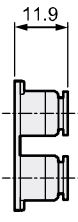
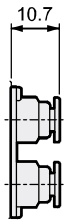
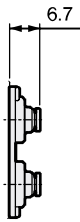
●  $\phi 1.8$ (CF)

●  $\phi 1.8$ (C18)

●  $\phi 4$ (C4)

●  $\phi 6$ (C6)

●  $\phi 8$ (C8)



● Fitting straight, single plug

●  $\phi 1.8$   
(CFNC)

●  $\phi 1.8$   
(C18NC)

●  $\phi 4$   
(C4NC)

●  $\phi 6$   
(C6NC)

●  $\phi 8$   
(C8NC)

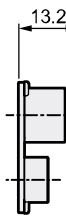
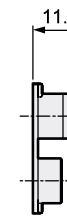
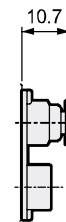
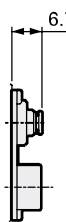
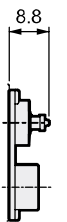
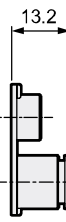
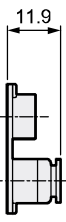
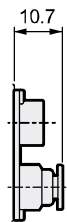
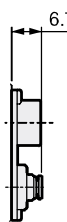
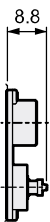
●  $\phi 1.8$   
(CFNO)

●  $\phi 1.8$   
(C18NO)

●  $\phi 4$   
(C4NO)

●  $\phi 6$   
(C6NO)

●  $\phi 8$   
(C8NO)



● L Fitting (upward)

●  $\phi 1.8$ (CL18)

●  $\phi 4$ (CL4)

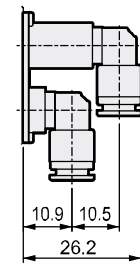
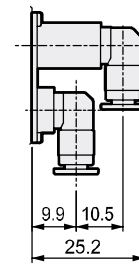
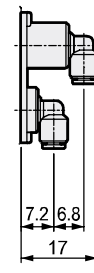
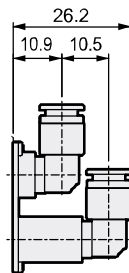
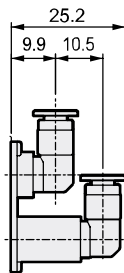
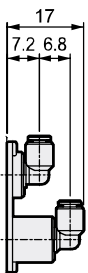
●  $\phi 6$ (CL6)

● L Fitting (downward)

●  $\phi 1.8$ (CD18)

●  $\phi 4$ (CD4)

●  $\phi 6$ (CD6)



● L Fitting (upward), single plug

●  $\phi 1.8$ (CL18NC)

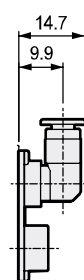
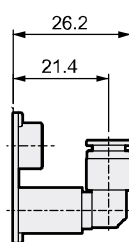
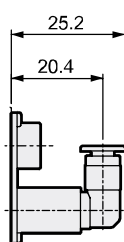
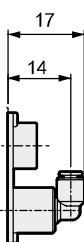
●  $\phi 4$ (CL4NC)

●  $\phi 6$ (CL6NC)

●  $\phi 1.8$ (CL18NO)

●  $\phi 4$ (CL4NO)

●  $\phi 6$ (CL6NO)



● Push-in L Fitting (downward), single plug

●  $\phi 1.8$ (CD18NC)

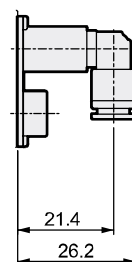
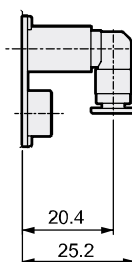
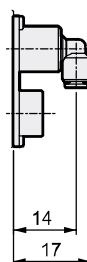
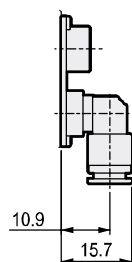
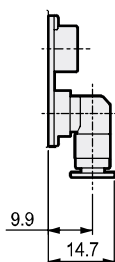
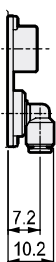
●  $\phi 4$ (CD4NC)

●  $\phi 6$ (CD6NC)

●  $\phi 1.8$ (CD18NO)

●  $\phi 4$ (CD4NO)

●  $\phi 6$ (CD6NO)



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

# M4GB1 Series

Individual wiring manifold; base piping

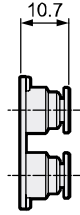
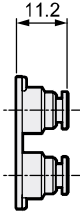
## Dimensions

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

● Fitting straight

●  $\phi 1/8"$  (C3N)

●  $\phi 5/32"$  (C4N)



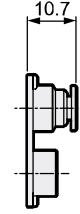
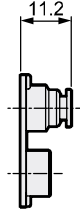
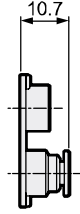
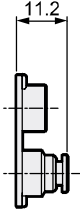
● Fitting straight, single plug

●  $\phi 1/8"$  (C3NCN)

●  $\phi 5/32"$  (C4NCN)

●  $\phi 1/8"$  (C3NON)

●  $\phi 5/32"$  (C4NON)



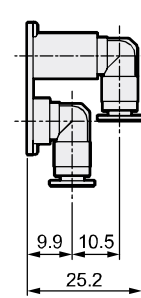
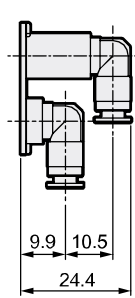
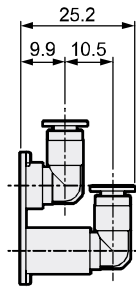
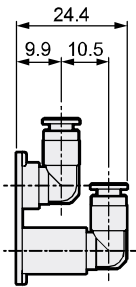
● L Fitting (upward)

●  $\phi 1/8"$  (CL3N)

●  $\phi 5/32"$  (CL4N)

●  $\phi 1/8"$  (CD3N)

●  $\phi 5/32"$  (CD4N)



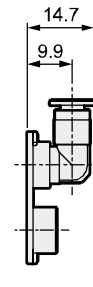
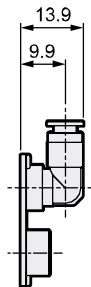
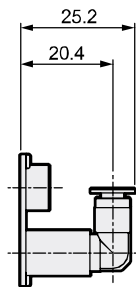
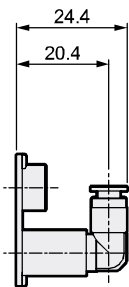
● L Fitting (upward), single plug

●  $\phi 1/8"$  (CL3NCN)

●  $\phi 5/32"$  (CL4NCN)

●  $\phi 1/8"$  (CL3NON)

●  $\phi 5/32"$  (CL4NON)



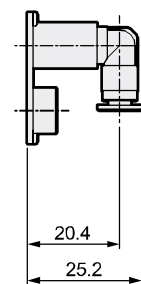
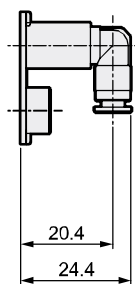
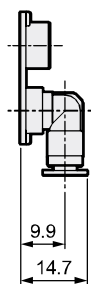
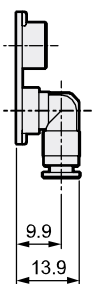
● Push-in L Fitting (downward), single plug

●  $\phi 1/8"$  (CD3NCN)

●  $\phi 5/32"$  (CD4NCN)

●  $\phi 1/8"$  (CD3NON)

●  $\phi 5/32"$  (CD4NON)



# MEMO

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

# M4GB2 Series

Individual wiring manifold; base piping

## Dimensions

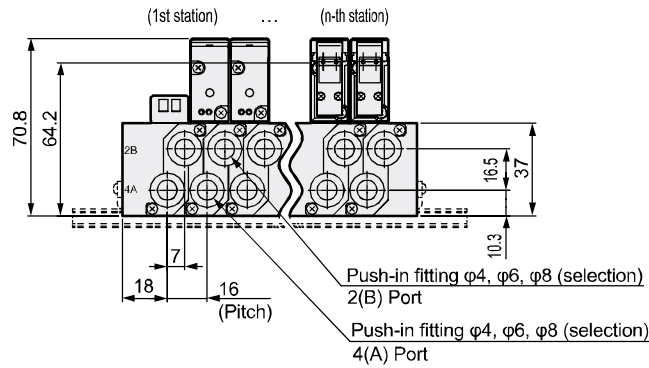
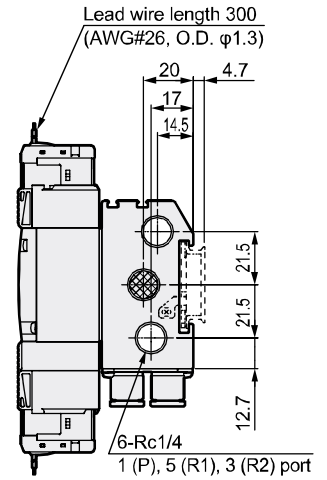
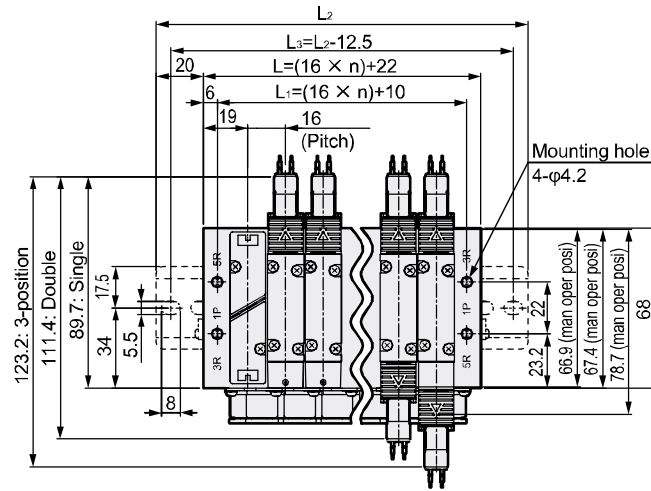
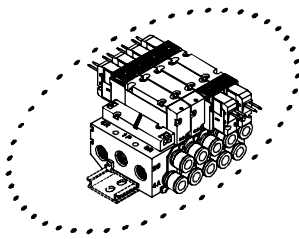


- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E  
MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/  
LMF0
- MN3S0  
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G  
GMF
- PV5  
GMF
- Rc1/8 female thread (06)
- PV5S-0
- 3QR  
3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/  
NVP
- 4F\*0EX
- 4F\*0E
- HMV  
HSV
- 2QV  
3QV
- SKH
- PCD
- Silencer
- TotAirSys (TotalAir)
- TotAirSys (Gamma)
- Ending

### M4GB2

- Grommet lead wire (blank)

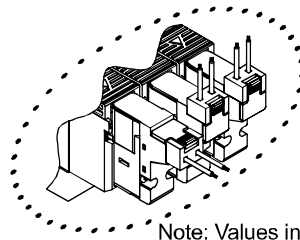
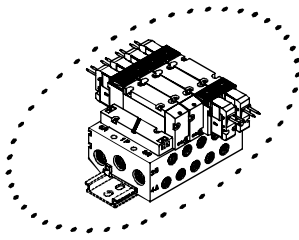
Note: The two 3-port valve integrated has the same dimensions as the double.



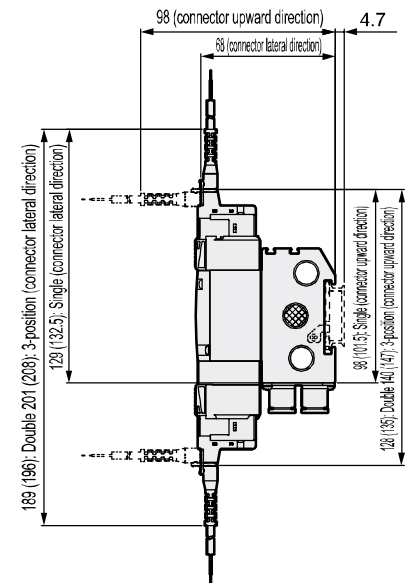
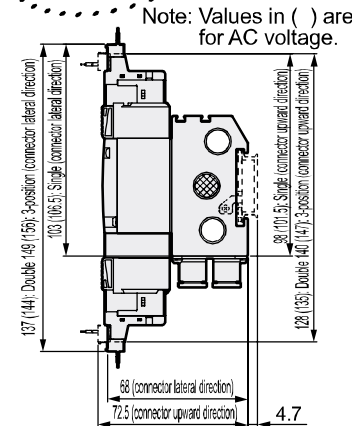
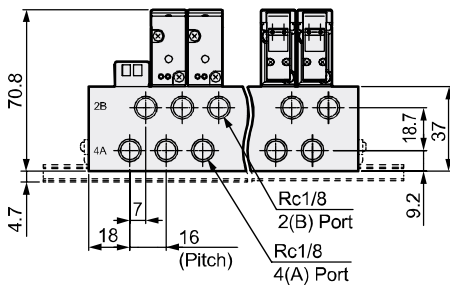
- Rc1/8 female thread (06)

- E type connector (E)

- EJ type connector (E\*\*J)



Note: Values in ( ) are for AC voltage.

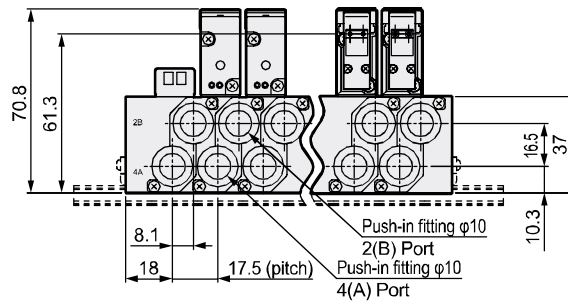
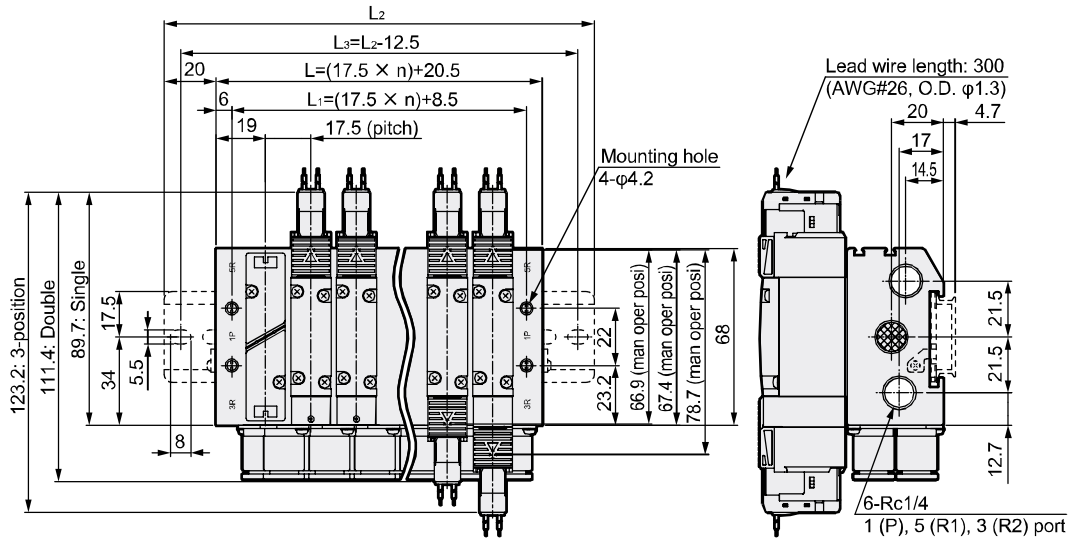


Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	54.0	70.0	86.0	102.0	118.0	134.0	150.0	166.0	182.0	198.0	214.0	230.0	246.0	262.0	278.0	294.0	310.0	326.0	342.0
L <sub>1</sub>	42.0	58.0	74.0	90.0	106.0	122.0	138.0	154.0	170.0	186.0	202.0	218.0	234.0	250.0	266.0	282.0	298.0	314.0	330.0
L <sub>2</sub>	100.0	112.5	137.5	150.0	162.5	175.0	200.0	212.5	225.0	250.0	262.5	275.0	287.5	312.5	325.0				
L <sub>3</sub>	87.5	100.0	125.0	137.5	150.0	162.5	187.5	200.0	212.5	237.5	250.0	262.5	275.0	300.0	312.5				

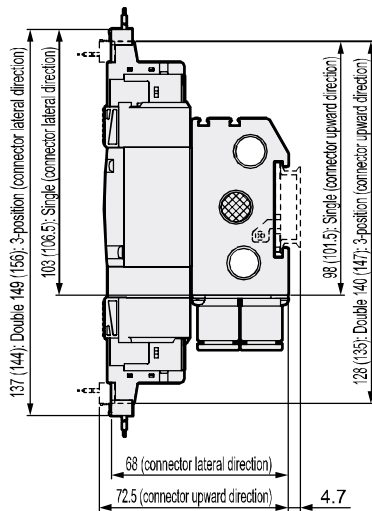
## Dimensions

### M4GB2-C10

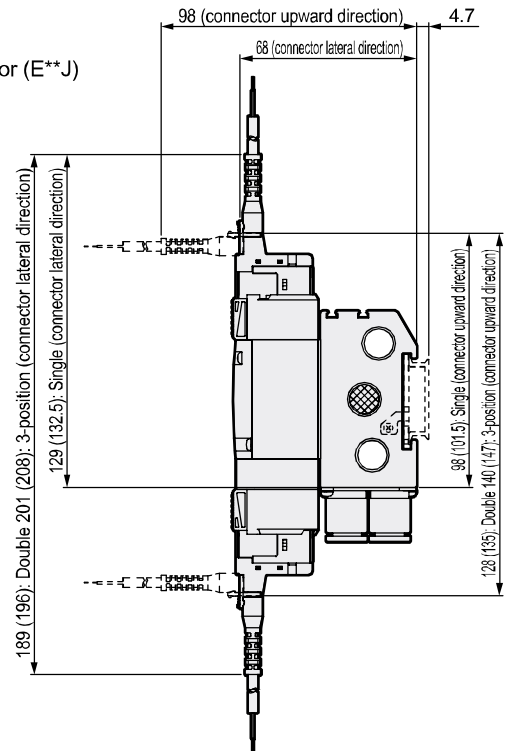
- Grommet lead wire (blank)



- E type connector (E)



- EJ type connector (E\*\*J)



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	55.5	73.0	90.5	108.0	125.5	143.0	160.5	178.0	195.5	213.0	230.5	248.0	265.5	283.0	300.5	318.0	335.5	353.0	370.5
L <sub>1</sub>	43.5	61.0	78.5	96.0	113.5	131.0	148.5	166.0	183.5	201.0	218.5	236.0	253.5	271.0	288.5	306.0	323.5	341.0	358.5
L <sub>2</sub>	100.0	125.0	137.5	150.0	175.0	187.5	212.5	225.0	237.5	262.5	275.0	300.0	312.5	325.0					
L <sub>3</sub>	87.5	112.5	125.0	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5					

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

# M4GB2 Series

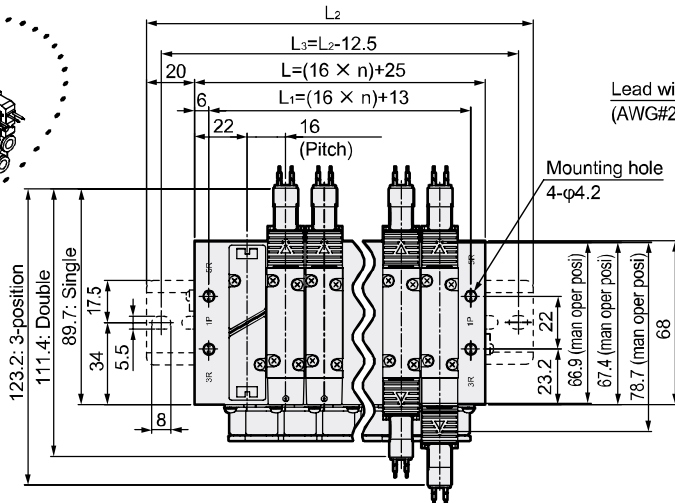
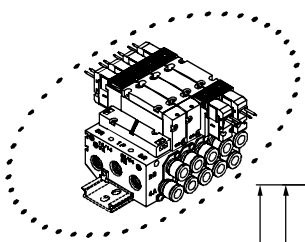
Individual wiring manifold; base piping

## Dimensions

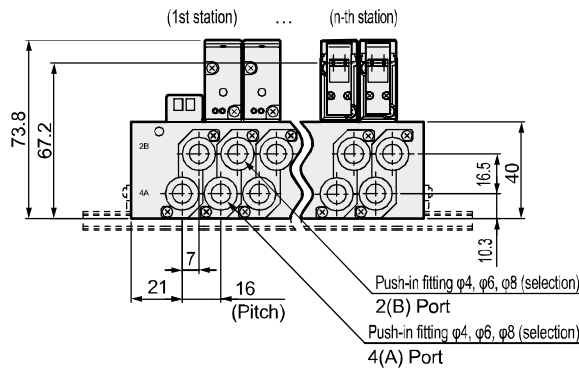
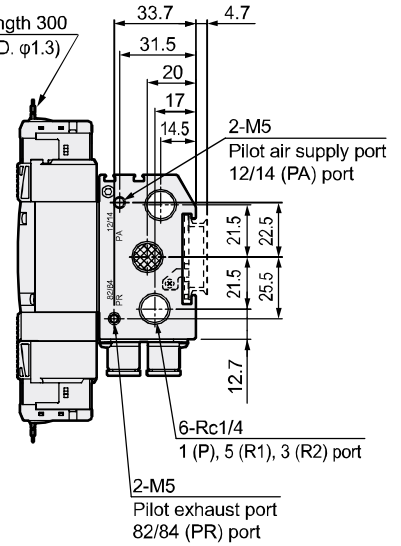


### M4GB2

- External pilot (K)  
Grommet lead wire (blank)



Lead wire length 300  
(AWG#26, O.D. φ1.3)

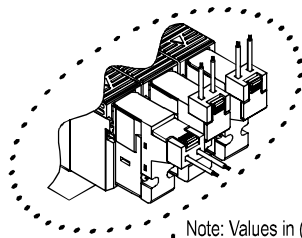
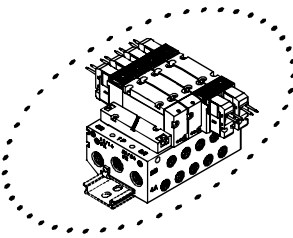


- External pilot (K)  
Rc1/8 female thread (06)

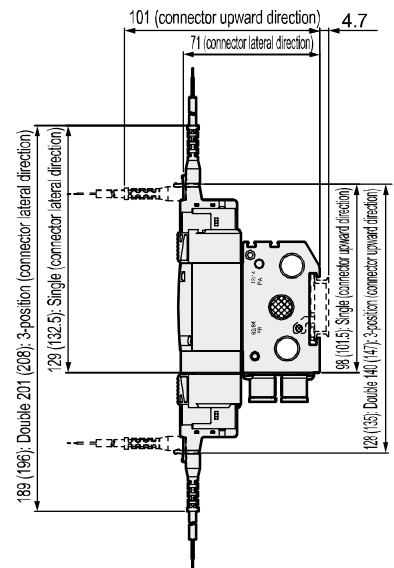
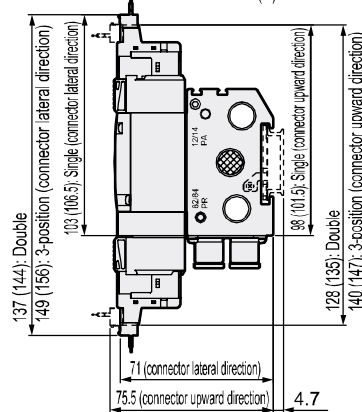
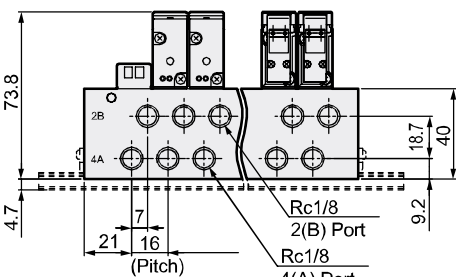
- External pilot (K)  
E type connector (E)

- External pilot (K)  
EJ type connector (E\*\*J)

Note: Values in ( ) are for AC voltage.



Note: Values in ( ) are for AC voltage.

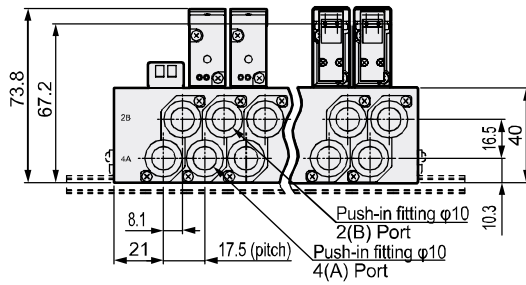
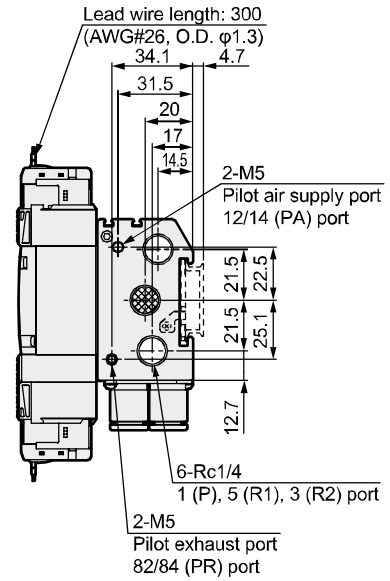
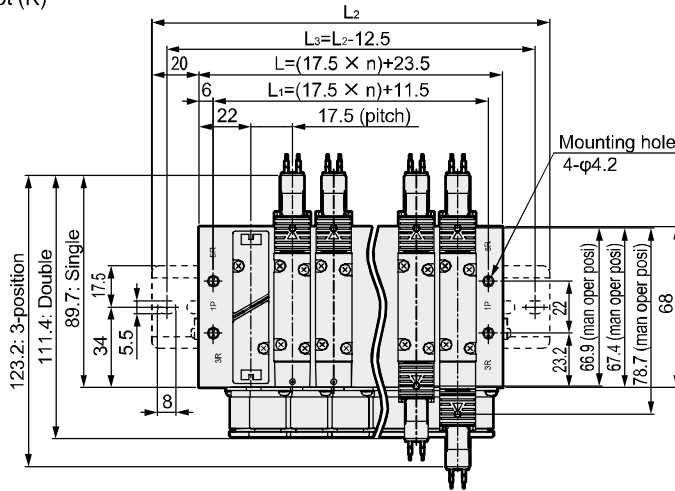


Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
TotAirSys (TotalAir)	L	57.0	73.0	89.0	105.0	121.0	137.0	153.0	169.0	185.0	201.0	217.0	233.0	249.0	265.0	281.0	297.0	313.0	329.0	345.0
TotAirSys (Gamma)	L <sub>1</sub>	45.0	61.0	77.0	93.0	109.0	125.0	141.0	157.0	173.0	189.0	205.0	221.0	237.0	253.0	269.0	285.0	301.0	317.0	333.0
	L <sub>2</sub>	100.0	125.0	137.5	150.0	162.5	187.5	200.0	212.5	225.0	250.0	262.5	275.0	300.0	312.5	325.0				
	L <sub>3</sub>	87.5	112.5	125.0	137.5	150.0	175.0	187.5	200.0	212.5	237.5	250.0	262.5	287.5	300.0	312.5				

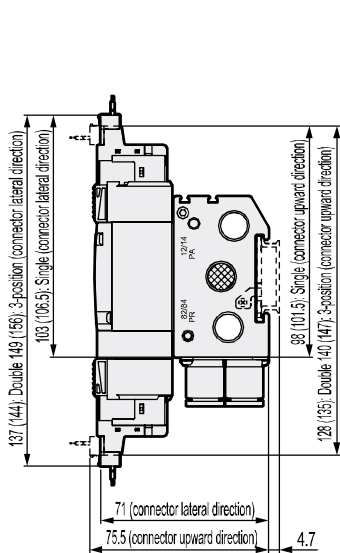
## Dimensions

### M4GB2-C10-K

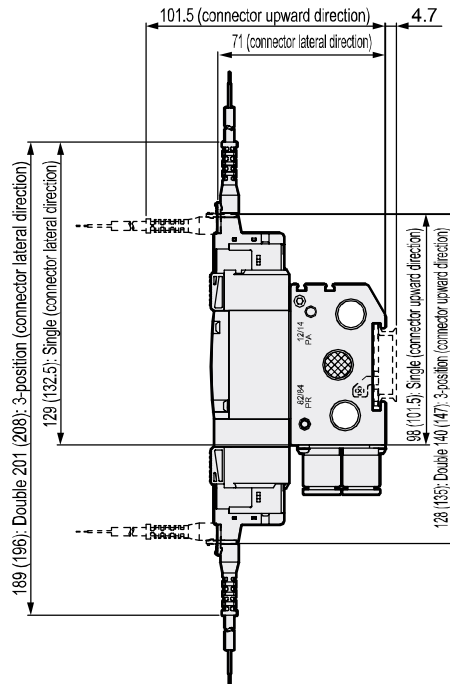
- Grommet lead wire (blank)
- External pilot (K)



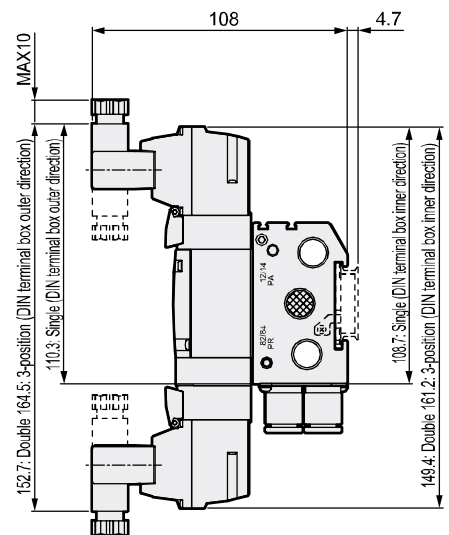
- External pilot (K)
- E type connector (E)



- External pilot (K)
- EJ type connector (E\*\*J)



- External pilot (K)
- DIN terminal box (B)



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	58.5	76.0	93.5	111.0	128.5	146.0	163.5	181.0	198.5	216.0	233.5	251.0	268.5	286.0	303.5	321.0	338.5	356.0	373.5
L <sub>1</sub>	46.5	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5
L <sub>2</sub>	100.0	125.0	137.5	162.5	175.0	187.5	212.5	225.0	250.0	262.5	275.0	300.0	312.5	337.5	350.0				
L <sub>3</sub>	87.5	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5				

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

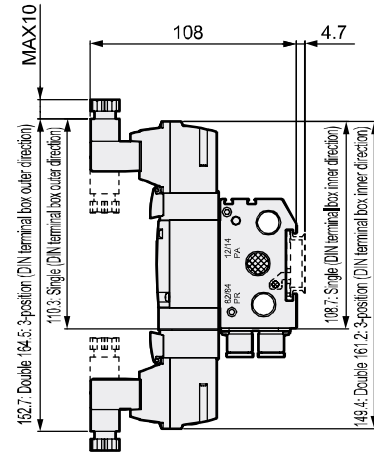
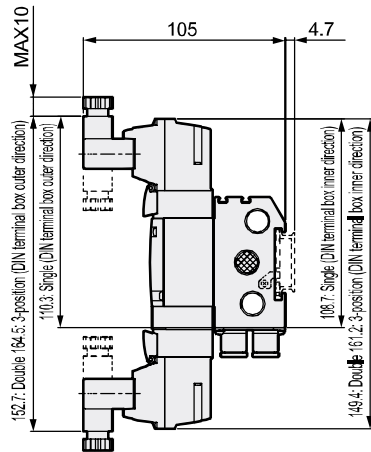
# M4GB2 Series

Individual wiring manifold; base piping

## Dimensions

● DIN terminal box (B)

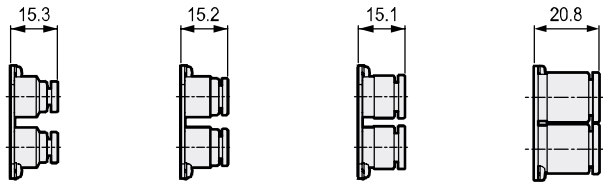
● External pilot  
DIN terminal box (B)



Note: DIN terminal box assembly is shipped facing inward.

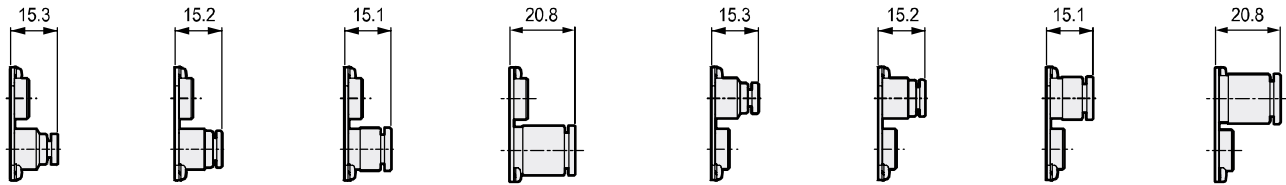
● Fitting straight

●  $\phi 4$ (C4)    ●  $\phi 6$ (C6)    ●  $\phi 8$ (C8)    ●  $\phi 10$ (C10)



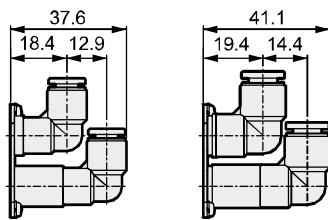
● Fitting straight, single plug

●  $\phi 4$ (C4NC)    ●  $\phi 6$ (C6NC)    ●  $\phi 8$ (C8NC)    ●  $\phi 10$ (C10NC)    ●  $\phi 4$ (C4NO)    ●  $\phi 6$ (C6NO)    ●  $\phi 8$ (C8NO)    ●  $\phi 10$ (C10NO)



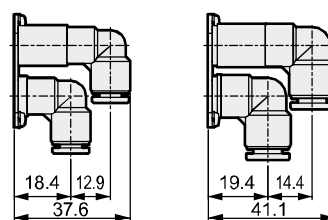
● L Fitting (upward)

●  $\phi 6$ (CL6)    ●  $\phi 8$ (CL8)



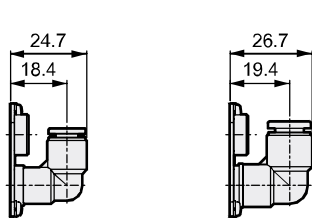
● L Fitting (downward)

●  $\phi 6$ (CD6)    ●  $\phi 8$ (CD8)

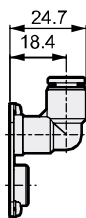


● L Fitting (upward), single plug

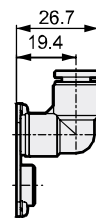
●  $\phi 6$ (CL6NC)    ●  $\phi 8$ (CL8NC)



●  $\phi 6$ (CL6NO)

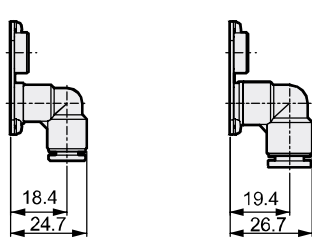


●  $\phi 8$ (CL8NO)

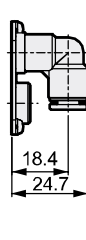


● L Fitting (downward), single plug

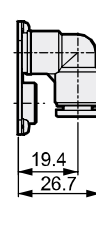
●  $\phi 6$ (CD6NC)    ●  $\phi 8$ (CD8NC)



●  $\phi 6$ (CD6NO)



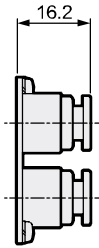
●  $\phi 8$ (CD8NO)



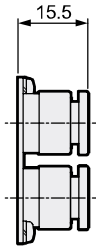


## Dimensions

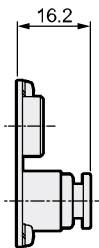
- Fitting straight
- $\phi 1/4"$  (C6N)



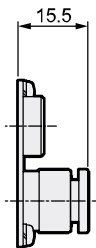
- $\phi 5/16"$  (C8N)



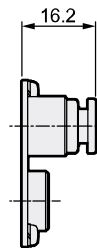
- Fitting straight, single plug
- $\phi 1/4"$  (C6NCN)



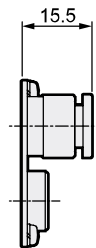
- $\phi 5/16"$  (C8NCN)



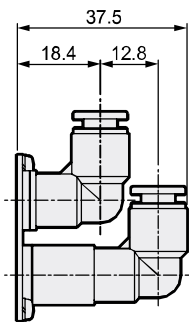
- $\phi 1/4"$  (C6NON)



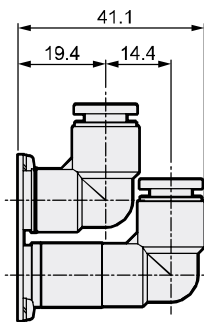
- $\phi 5/16"$  (C8NON)



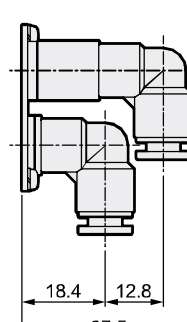
- L Fitting (upward)
- $\phi 1/4"$  (CL6N)



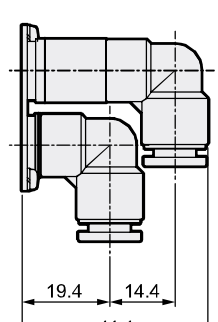
- $\phi 5/16"$  (CL8N)



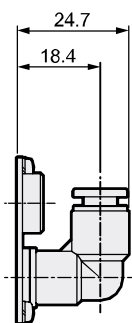
- $\phi 1/8"$  (CD6N)



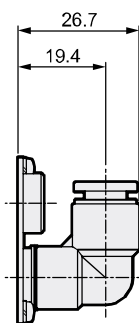
- $\phi 5/32"$  (CD8N)



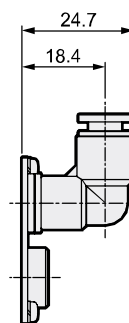
- L Fitting (upward), single plug
- $\phi 1/4"$  (CL6NCN)



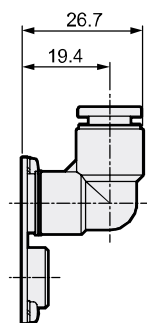
- $\phi 5/16"$  (CL8NCN)



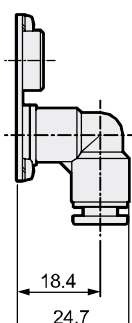
- $\phi 1/4"$  (CL6NON)



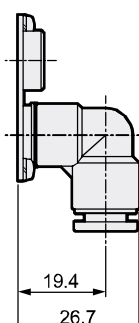
- $\phi 5/16"$  (CL8NON)



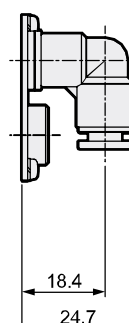
- L Fitting (downward), single plug
- $\phi 1/4"$  (CD6NCN)



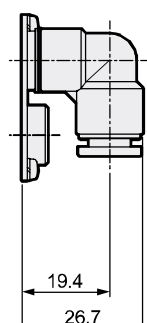
- $\phi 5/16"$  (CD8NCN)



- $\phi 1/4"$  (CD6NON)



- $\phi 5/16"$  (CD8NON)



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

# M4GB3 Series

Individual wiring manifold; base piping

## Dimensions



4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E  
MN4E

W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0  
MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

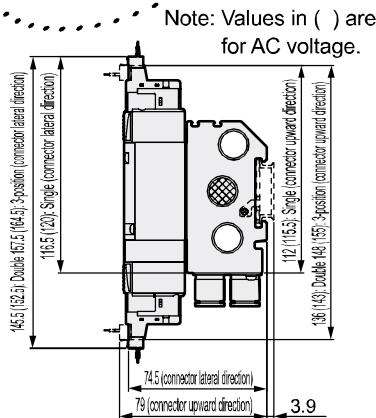
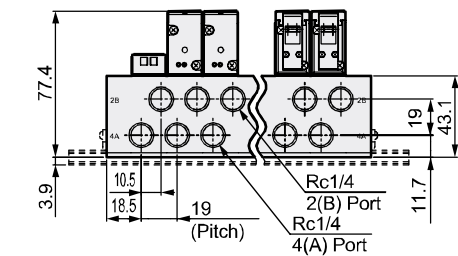
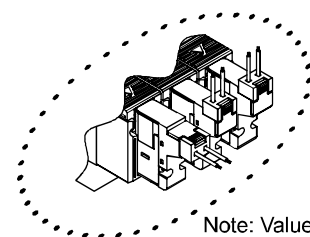
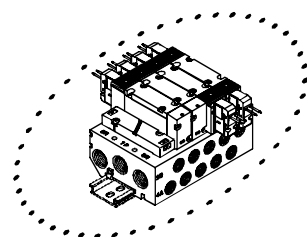
PV5G  
GMF

PV5  
GMF

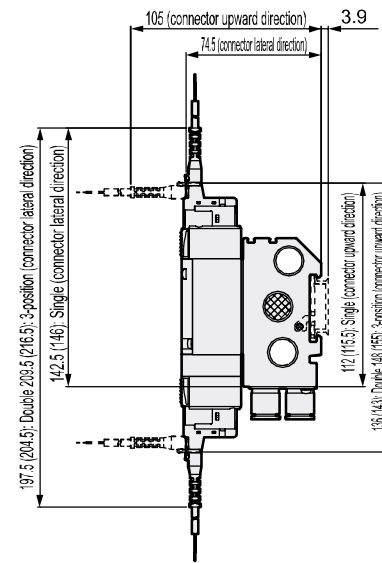
● Rc1/4 female thread (08)

● E type connector (E)

● EJ type connector (E\*\*J)

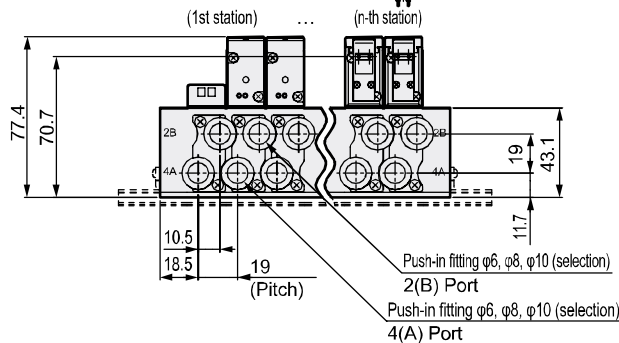
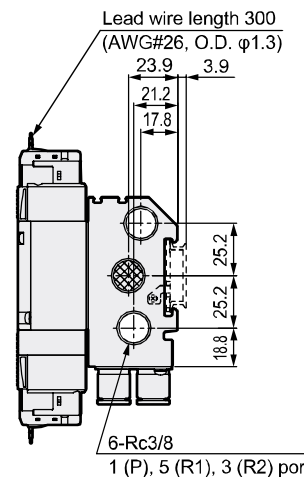
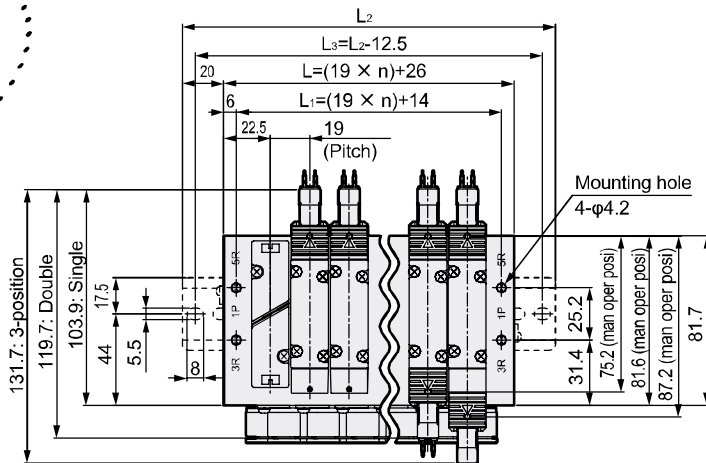
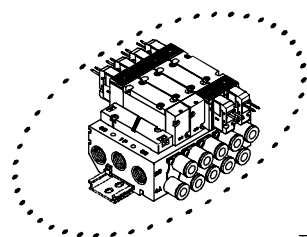


Note: Values in ( ) are for AC voltage.



## M4GB3

● Grommet lead wire (blank)

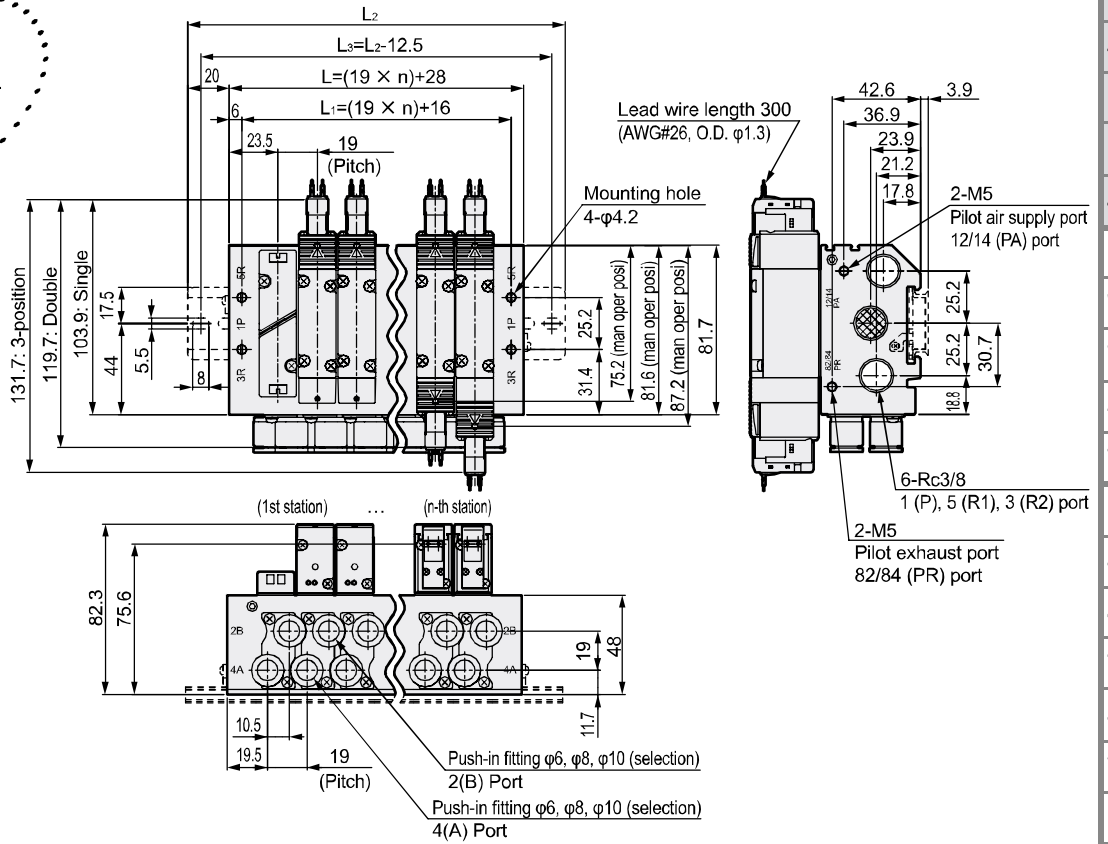
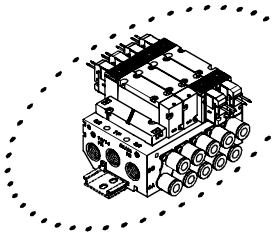


Station No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	83.0	102.0	121.0	140.0	159.0	178.0	197.0	216.0	235.0	254.0	273.0	292.0	311.0	330.0	349.0	368.0	387.0	406.0
L1	52.0	71.0	90.0	109.0	128.0	147.0	166.0	185.0	204.0	223.0	242.0	261.0	280.0	299.0	318.0	337.0	356.0	375.0	394.0
L2	112.5	125.0	150.0	162.5	187.5	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	375.0				
L3	100.0	112.5	137.5	150.0	175.0	187.5	212.5	225.0	250.0	262.5	287.5	312.5	325.0	350.0	362.5				

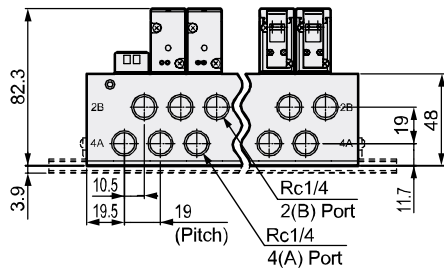
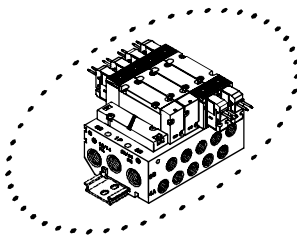
## Dimensions

### M4GB3

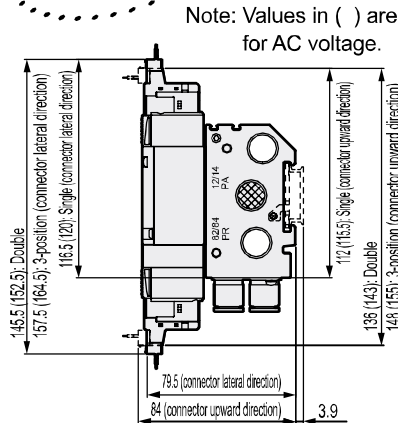
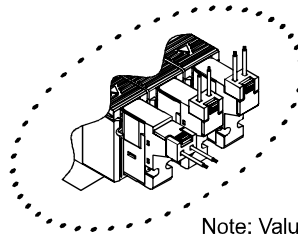
- External pilot (K)  
Grommet lead wire (blank)



- External pilot (K)  
Rc1/4 female thread (08)

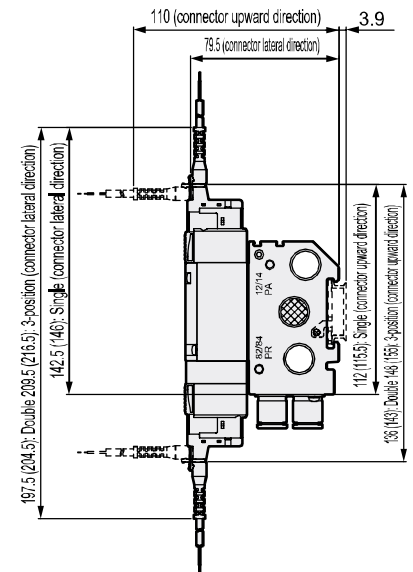


- External pilot (K)  
E type connector (E)



- External pilot (K)  
EJ type connector (E\*\*J)

Note: Values in ( ) are for AC voltage.



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	66.0	85.0	104.0	123.0	142.0	161.0	180.0	199.0	218.0	237.0	256.0	275.0	294.0	313.0	332.0	351.0	370.0	389.0	408.0
L <sub>1</sub>	54.0	73.0	92.0	111.0	130.0	149.0	168.0	187.0	206.0	225.0	244.0	263.0	282.0	301.0	320.0	339.0	358.0	377.0	396.0
L <sub>2</sub>	112.5	125.0	150.0	175.0	187.5	212.5	225.0	250.0	262.5	287.5	300.0	325.0	337.5	362.5	375.0				
L <sub>3</sub>	100.0	112.5	137.5	162.5	175.0	200.0	212.5	237.5	250.0	275.0	287.5	312.5	325.0	350.0	362.5				

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

# M4GB3 Series

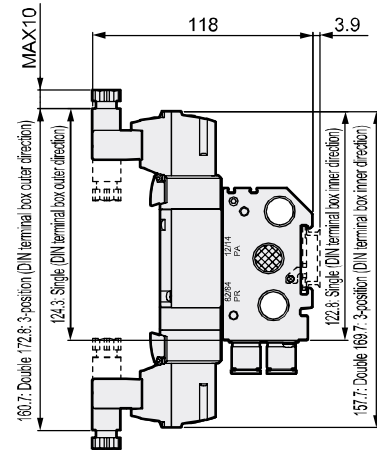
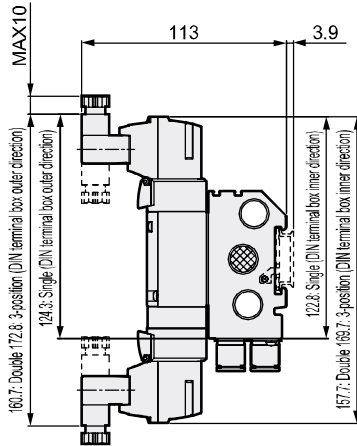
Individual wiring manifold; base piping

## Dimensions

● DIN terminal box (B)

● External pilot (K)

DIN terminal box (B)



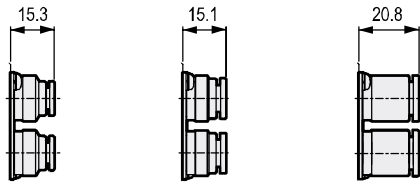
Note: DIN terminal box assembly is shipped facing inward.

● Fitting straight

●  $\phi 6$ (C6)

●  $\phi 8$ (C8)

●  $\phi 10$ (C10)



● Fitting straight, single plug

●  $\phi 6$ (C6NC)

●  $\phi 8$ (C8NC)

●  $\phi 10$ (C10NC)

●  $\phi 6$ (C6NO)

●  $\phi 8$ (C8NO)

●  $\phi 10$ (C10NO)



● L Fitting (upward)

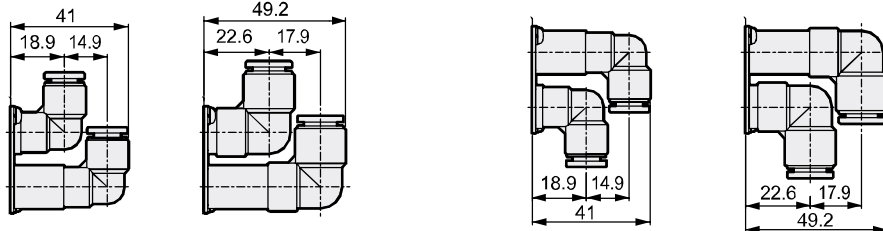
●  $\phi 8$ (CL8)

●  $\phi 10$ (CL10)

● L Fitting (downward)

●  $\phi 8$ (CD8)

●  $\phi 10$ (CD10)



● L Fitting (upward), single plug

●  $\phi 8$ (CL8NC)

●  $\phi 10$ (CL10NC)

●  $\phi 8$ (CL8NO)

●  $\phi 10$ (CL10NO)



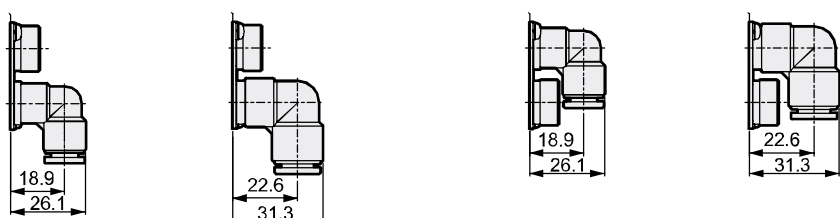
● L Fitting (downward), single plug

●  $\phi 8$ (CD8NC)

●  $\phi 10$ (CD10NC)

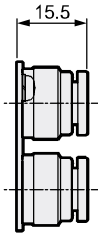
●  $\phi 8$ (CD8NO)

●  $\phi 10$ (CD10NO)

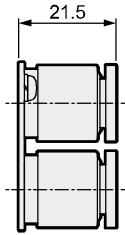


## Dimensions

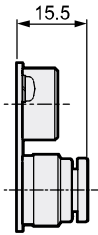
- Fitting straight
- $\phi 5/16"$  (C8N)



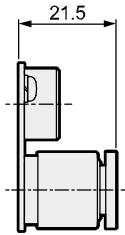
- $\phi 3/8"$  (C10N)



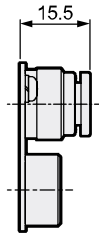
- Fitting straight, single plug
- $\phi 5/16"$  (C8NCN)



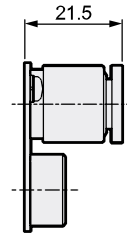
- $\phi 3/8"$  (C10NCN)



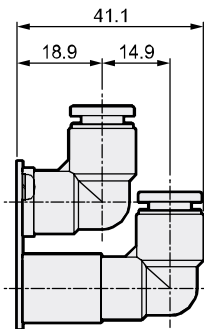
- $\phi 5/16"$  (C8NON)



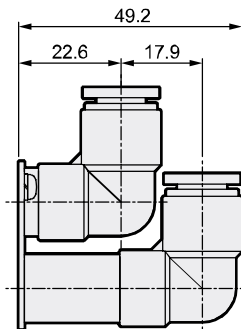
- $\phi 3/8"$  (C10NON)



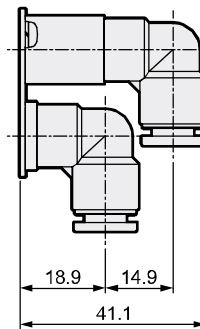
- L Fitting (upward)
- $\phi 5/16"$  (CL8N)



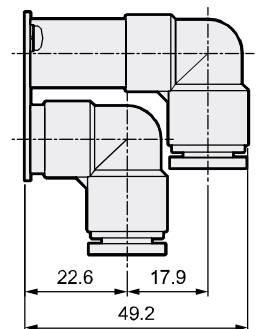
- $\phi 3/8"$  (CL10N)



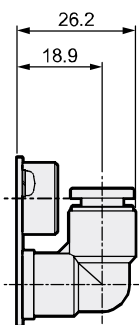
- $\phi 5/16"$  (CD8N)



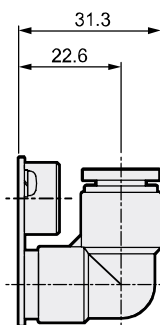
- $\phi 3/8"$  (CD10N)



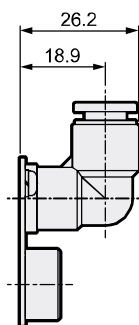
- L Fitting (upward), single plug
- $\phi 5/16"$  (CL8NCN)



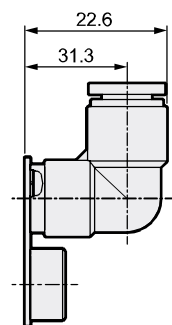
- $\phi 3/8"$  (CL10NCN)



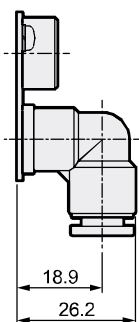
- $\phi 5/16"$  (CL8NON)



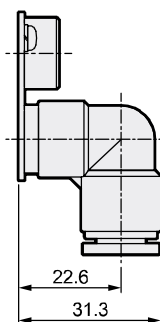
- $\phi 3/8"$  (CL10NON)



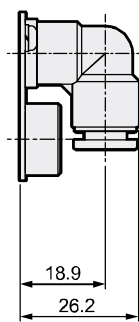
- L Fitting (downward), single plug
- $\phi 5/16"$  (CD8NCN)



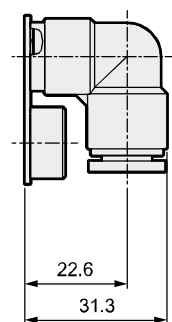
- $\phi 3/8"$  (CD10NCN)



- $\phi 5/16"$  (CD8NON)



- $\phi 3/8"$  (CD10NON)



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

Reduced wiring manifold  
Body piping  
Direct mount/DIN rail mount

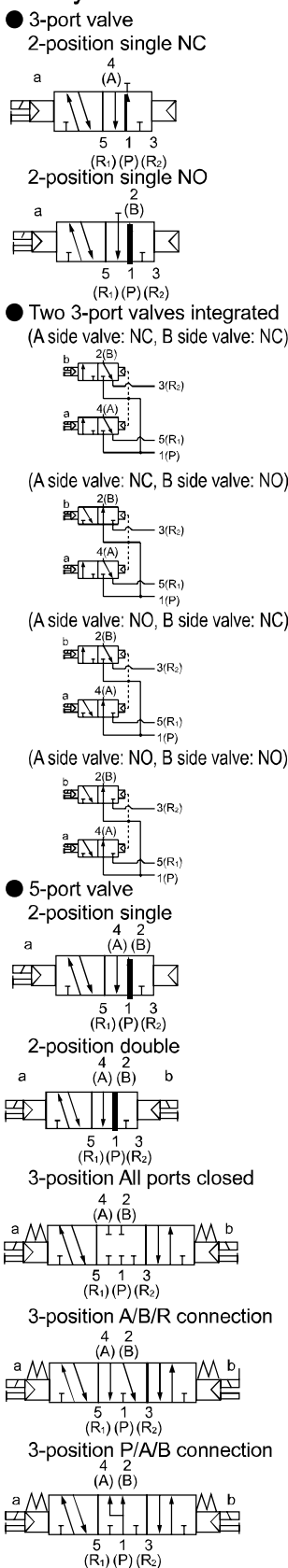
# M3GA1/2/3-T\*(D) Series M4GA1/2/3-T\*(D) Series

• Cylinder bore size: φ20 to φ100



- 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  
(TotalAir)
- TotAirSys  
(Gamma)
- Ending

## JIS symbol



## Manifold common specifications

Descriptions	Content	
Manifold	Reduced wiring integrated base	
Mounting method	Direct mount/DIN rail mount	
Supply and exhaust method	Common supply/common exhaust (With internal exhaust check valve)	
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (Pilot exhaust check valve built-in)
	External pilot	Main valve/pilot valve individual exhaust
Piping direction	Valve top direction	
Valve and operation	Pilot operated soft spool valve	
Working fluid	Compressed air	
Max. working pressure MPa	0.7 (≈100 psi, 7 bar)	
Min. working pressure MPa	0.2 (≈29 psi, 2 bar) (*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 type (standard)	
Lubrication (*1)	Not required	
Degree of protection (*2)	Dust-proof	
Vibration resistance m/s <sup>2</sup>	50 or less	
Shock resistance m/s <sup>2</sup>	300 or less	
Atmosphere	Cannot be used in corrosive gas environments	

\*1 Use turbine oil Class 1 ISO VG32 for lubrication. Excessive or intermittent lubrication results in unstable operation.  
\*2 Avoid dripping water or oil, etc., during use.  
\*3 The working pressure range is 0 to 0.7 MPa when the external pilot (option code: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.

## Electrical specifications

Descriptions	Content			
	T1□, T30□, T5□	T6□, T8□		
Rated voltage V	DC24	DC12	DC24	
Voltage fluctuation range (*4)	±10%		+10%, -5%	
Holding current A	Standard	0.017	0.034	0.017
	Low exoergic/energy circuit	0.005	0.010	0.005
Power consumption W	Standard	0.4		
	Low exoergic/energy circuit	0.1		
Thermal class	B			
Surge suppressor (*5)	Zener diode			
Indicator	LED			

\*4 : T6□ and T8□ (serial transmission) may experience voltage drops due to internal circuitry, so care should be taken when regulating voltages.  
\*5 : If low exoergic/energy saving circuit or surgeless types are selected then there will be a diode.

## Common specifications

Descriptions	M3GA1/M4GA1	M3GA2/M4GA2	M3GA3/M4GA3	
Port size	A/B Port	Barbed fitting φ1.8 Push-in fitting φ1.8, φ4, φ6 M5	Push-in fitting φ4, φ6, φ8 Rc1/8	Push-in fitting φ6, φ8, φ10 Rc1/4
	P/R1/R2 port	Rc1/8	Rc1/4	Rc3/8

T1□, T30□, T5□

Descriptions		M3GA1/M4GA1		M3GA2/M4GA2		M3GA3/M4GA3	
		Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount
Max. station No.	Standard (Internal pilot) External pilot	20 12	16 12	20 16	16 12	16	
Manifold base weight	Standard	29n+215	31n+228	54n+264	56n+297	84n+320	86n+354
Calculation formula (n: Station No.)g	External pilot	44n+334	46n+347	96n+433	96n+468	149n+554	151n+583

T6□

Descriptions		M3GA1/M4GA1	M3GA2/M4GA2	M3GA3/M4GA3
		DIN rail mount	DIN rail mount	DIN rail mount
Max. station No.	Standard (Internal pilot) External pilot	16 12	16 12	16
Manifold base weight	Standard	31n+375	56n+444	86n+501
Calculation formula (n: Station No.)g	External pilot	46n+494	98n+615	151n+731

T8□

Descriptions		M3GA1/M4GA1		M3GA2/M4GA2		M3GA3/M4GA3	
		Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount
Max. station No.	Standard (Internal pilot) External pilot	20 12	16 12	20 16	16 12	16	
Manifold base weight	Standard	50n+305	52n+332	57n+259	60n+290	150n+384	153n+416
Calculation formula (n: Station No.)g	External pilot	51n+313	54n+340	102n+336	105n+368	169n+417	173n+449

The manifold base weight is the value for screw connection specifications with DIN rail, wiring block or slave unit.  
The max. station number of the manifold is limited by the max. number of solenoid for each of the following wiring specifications.

# M<sup>3</sup>GA1/2/3-T\*(D) Series

Reduced wiring manifold; body piping

## Flow characteristics

Model No.	Solenoid position	P→A/B		A/B→R1/R2		
		C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
M3GA1 M4GA1	Two 3-port valves integrated	0.86	0.31	1.1(0.66)	0.19(0.22)	
	2-position	0.99	0.20	1.2(0.70)	0.20(0.12)	
	3-position	All ports closed	0.94	0.23	1.1 -	0.20 -
		ABR connection	0.93	0.18	1.3(0.70)	0.23(0.02)
	PAB connection	1.1	0.28	1.1 -	0.23 -	
M3GA2 M4GA2	Two 3-port valves integrated	1.7	0.40	2.3(1.7)	0.29(0.32)	
	2-position	2.3	0.36	2.9(1.7)	0.24(0.33)	
	3-position	All ports closed	2.1	0.35	2.5 -	0.32 -
		ABR connection	2.2	0.37	2.9(1.8)	0.32(0.29)
	PAB connection	2.4	0.34	2.5 -	0.33 -	
M3GA3 M4GA3	2-position	3.2	0.37	3.8(2.5)	0.13(0.28)	
	3-position	All ports closed	2.9	0.35	3.3 -	0.35 -
		ABR connection	3.0	0.34	3.8(2.6)	0.12(0.27)
		PAB connection	3.3	0.30	3.3 -	0.32 -

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

\*2: Values in ( ) are with the exhaust check valve.

## Wiring specifications

Descriptions	T10□	T11□	T30□	T50□	T51□	T52□	T53□																																
Connector and terminal block specifications	M3 thread fastening 18 terminals	Clamping 26 terminals	D sub-connector 25-pin	MIL-C-83503 standard compliant pressure welding socket 20-pin	MIL-C-83503 standard compliant pressure welding socket 20-pin	MIL-C-83503 standard compliant pressure welding socket 10-pin	MIL-C-83503 standard compliant pressure welding socket 26-pin																																
Max. number of solenoids	16 points	24 points	24 points	16 points	18 points	8 points	24 points																																
Manifold internal wiring	Details on pages 718 to 725																																						
Wiring block position	Left side: T□ a solenoid side 				Right side: T□ R a solenoid side 																																		
Blank: Left side R: Right side																																							
Array method	(Example) For T50□ Manifold specifications 		Standard wiring (sequential): Blank <table border="1"> <tr> <td>Connector pin No.</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td> </tr> <tr> <td>Valve solenoid No.</td> <td>1a</td><td>2a</td><td>2b</td><td>3a</td><td>4a</td><td>4b</td> </tr> </table>		Connector pin No.	1	2	3	4	5	6	Valve solenoid No.	1a	2a	2b	3a	4a	4b	Double wiring: W <table border="1"> <tr> <td>Connector pin No.</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> <tr> <td>Valve solenoid No.</td> <td>1a</td><td>Blank</td><td>2a</td><td>2b</td><td>3a</td><td>Blank</td><td>4a</td><td>4b</td> </tr> </table>			Connector pin No.	1	2	3	4	5	6	7	8	Valve solenoid No.	1a	Blank	2a	2b	3a	Blank	4a	4b
Connector pin No.	1	2	3	4	5	6																																	
Valve solenoid No.	1a	2a	2b	3a	4a	4b																																	
Connector pin No.	1	2	3	4	5	6	7	8																															
Valve solenoid No.	1a	Blank	2a	2b	3a	Blank	4a	4b																															
Blank: Standard sequential W: Double wiring																																							

## Serial transmission slave unit specifications

Descriptions	T6G1 <sup>*1</sup>	T6C0 <sup>*2</sup> T6C1	T6A0 <sup>*3</sup> T6A1	T6E0 T6E1	T6J0 <sup>*3</sup> T6J1
Network name	CC-Link	CompoBus/S	UNIWIRESYSTEM	S-LINK	UNIWIRESYSTEM
Power supply voltage	Unit side: 24 VDC ±10% Valve side: 24 VDC +10% -5%	24 VDC +10% -5% (Unit power supply/valve power supply common terminal)			
Current consumption	Unit side: 100 mA or less (when all output points are ON) Valve side: 15 mA or less (when all output points are OFF)	100 mA or less (when all output points are ON) Load current is not included			
Output points	16 points	T6□0: 8 points T6□1: 16 points			
Occupied number	1 station	T6C0: 1 node address (in 8-point mode) T6C1: 2 node address (8-point mode)	T6A0: Output 8 points T6A1: Output 16 points	T6E0:FAN-in:3 T6E1:FAN-in:3	T6J0: Output 8 points T6J1: Output 16 points
Operation display	LED (power supply and communication status)				

\*1: CC-Link is ver. 1.10.

\*2: Long-distance communication mode is not supported. Contact CKD for details on support.

\*3: Transmission point count of 128 points and transmission distance of 200 m are supported, Contact CKD for other specifications.

## Serial transmission slave unit specifications

Descriptions	T8G1	T8GP1	T8P1	T8PP1	T8EC1	T8ECP1	T8EN1	T8ENP1
	T8G2	T8GP2	T8P2	T8PP2	T8EC2	T8ECP2	T8EN2	T8ENP2
Communication system name	CC-Link ver1.10		PROFIBUS-DP(V0)		EtherCAT		EtherNet/IP	
Power supply voltage	Unit side: 24 VDC ±10% Valve side: 24 VDC +10%, -5%							
Current consumption	60 mA or less (when all output points are ON)		60 mA or less (when all output points are ON)		110 mA or less (when all output points are ON)		120 mA or less (when all output points are ON)	
Valve side	T8□1: 15 mA or less T8□2: 20 mA or less (When all output points are ON) Load current is not included							
Output points	T8□1: 16 points T8□2: 32 points							
Occupied number	1 station							
Operation display	LED (power supply and communication status)							
Output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output

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

# M<sup>3</sup><sub>4</sub>GA1/2/3-T\*(D) Series

Reduced wiring manifold; body piping

## How to order

Manifold model No.

**M** **4GA1** **1** **0R** - **C6** - **T30** **W** **H** **D** - **3**

3 port manifold model No.

**M** **3GA1** **1** **0R** - **C6** - **T30** **W** **H** **D** - **3**

● Single valve for mounting base

**4GA1** **1** **9R** - **C6** - **A2N** **H** - **3**

● 3-port discrete valve for mounting base

**3GA1** **1** **9R** - **C6** - **A2N** **H** - **3**

**B** Solenoid position

A2N indicates the A type (downward) connector, with lamp/surge suppressor and without lead wire.

**A** Model No.

**C** Port size

- Refer to page 721 for the model No. of cables with D sub-connector.
- Refer to page 717 for the model No. of cables for flat cable connector.

### ⚠ Precautions for model No. selection

- \*1 Select M4GA\*80R when mixing with 3, 5-port valves. Further, select M3GA\*80R when mixing with masking plate.
- \*2 Not compatible with combination with external pilot (K). Dimensions are the same as those of the respective 2-position double solenoid.
- \*3 The push-in fitting cannot be mixed with the single valve's 4(A) or 2(B) port.
- \*4 Blank...The wiring will be based on the type of valve used. W\*...All wired for double solenoid valves regardless of the type of valve used.
- \*5 Spare wiring (A type socket assembly) is included on the cap side for single types. A holder for retaining the socket assembly is included for single unit valves (A2N). Refer to page 194 for details.
- \*6 3-position all ports closed and PAB connection are not provided with the exhaust check valve specifications (H). Refer to page 751 for details on the exhaust check valve.
- \*7 Contact CKD when using a vacuum with the external pilot (K).
- \*8 Surgeless "S" and low exoergic/energy-saving circuit "E" cannot be selected together.
- \*9 Surgeless specifications.
- \*10 A filter is built into the P-port as standard.
- \*11 Specify the spacer mounting position/quantity in manifold specifications sheet. Stacking of spacers is not possible. Combination with the masking plate is not supported. Refer to pages 186 to 190 for details.
- \*12 Not compatible with combination with external pilot (K).

**D** Reduced wiring connection  
Zener diode is used as a surge suppressor.

**E** Terminal/connector pin array

**F** Option

**G** Mount

**H** Station No.

**I** Voltage

\* Be sure to fill in the "Manifold specifications sheet" (pages 206 to 220).

**A** Model No.

Code	Content	3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
<b>B Solenoid position</b>							
1	2-position single				●	●	●
2	2-position double				●	●	●
3	3-position all ports closed				●	●	●
4	3-position ABR connection				●	●	●
5	3-position PAB connection				●	●	●
1	2-position single normally closed *1	●	●	●			
11	2-position single normally open *1	●	●	●			
66	Two 3-port valves integrated *1/*2	A side valve: Normally closed B side valve: Normally closed		●	●		
67		A side valve: Normally closed B side valve: Normally open		●	●		
76		A side valve: Normally open B side valve: Normally closed		●	●		
77	A side valve: Normally open B side valve: Normally open		●	●			
8	Mix manifold (when there are multiple solenoid positions)	●	●	●	●	●	●
<b>C Port size</b>							
Port	4(A)/2(B) port	P/R1/R2 port (2) = Rc1/8, (3) = Rc1/4, (4) = Rc3/8					
CF	φ1.8 barbed fitting (compatible tube UP-9102-**) (2)			(2)			
C18	φ1.8 push-in fitting (compatible tube UP-9402-**) (2)			(2)			
C4	φ4 push-in fitting (2) (3)			(2)	(3)		
C6	φ6 push-in fitting (2) (3) (4)			(2)	(3)	(4)	
C8	φ8 push-in fitting (3) (4)			(3)	(4)		
C10	φ10 push-in fitting (4)			(4)			
CX	Push-in fitting mix *3 (2) (3) (4)			(2)	(3)	(4)	
M5	M5 (2)			(2)			
06	Rc1/8 (3)			(3)			
08	Rc1/4 (4)			(4)			
<b>D Reduced wiring (lamp and surge suppressor provided as standard)</b> Refer to the next page for electrical connections.							
<b>E Terminal/connector pin array</b>							
Blank	Standard wiring *4	●	●	●	●	●	●
W	Double wiring *4	●	●	●	●	●	●
W1	Double wiring (with single spare wiring) *4, *5	●	●	●	●	●	●
<b>F Option</b>							
Blank	Non-locking/locking common manual override	●	●	●	●	●	●
M	Non-locking manual override	●	●	●	●	●	●
H	With exhaust check valve *6	●	●	●	●	●	●
K	External pilot *7	●	●	●	●	●	●
A	Ozone/coolant proof	●	●	●	●	●	●
S	Surgeless *8	●	●	●	●	●	●
E	Low exoergic/energy saving circuit *8, *9	●	●	●	●	●	●
F	A/B port filter built in *10	●	●	●	●	●	●
Z1	Air supply spacer *11	●	●	●	●	●	●
Z2	In-stop valve spacer *11, *12	●	●	●	●	●	●
Z3	Exhaust spacer *11	●	●	●	●	●	●
<b>G Mount</b>							
Blank	Direct mount	●	●	●	●	●	●
D	DIN rail mount	●	●	●	●	●	●
<b>H Station No.</b>							
2	2 stations						
to	to	●	●	●	●	●	●
20	Refer to page 136 for the max. station number per model.						
<b>I Voltage</b>							
3	24 VDC	●	●	●	●	●	●
4	12 VDC	●	●	●	●	●	●

is not available.



# M<sub>4</sub>GA1/2/3-T\*(D) Series

Reduced wiring manifold; body piping

			A Model No.					
			3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
<b>D Reduced wiring (lamp and surge suppressor provided as standard) 12/24 VDC</b>								
<b>T10</b>	Common terminal block (M3 thread)	Left-sided specifications	●	●	●	●	●	●
<b>T10R</b>		Right-sided specifications	●	●	●	●	●	●
<b>T11</b>	Common terminal block (clamping)	Left-sided specifications	●	●	●	●	●	●
<b>T11R</b>		Right-sided specifications	●	●	●	●	●	●
<b>T30</b>	D sub-connector	Left-sided specifications	●	●	●	●	●	●
<b>T30R</b>		Right-sided specifications	●	●	●	●	●	●
<b>T50</b>	20-pin flat cable connector	Left-sided specifications	●	●	●	●	●	●
<b>T50R</b>		(with power supply terminal) Right-sided specifications	●	●	●	●	●	●
<b>T51</b>	20-pin flat cable connector	Left-sided specifications	●	●	●	●	●	●
<b>T51R</b>		(without power supply terminal) Right-sided specifications	●	●	●	●	●	●
<b>T52</b>	10-pin flat cable connector	Left-sided specifications	●	●	●	●	●	●
<b>T52R</b>		(without power supply terminal) Right-sided specifications	●	●	●	●	●	●
<b>T53</b>	26-pin flat cable connector	Left-sided specifications	●	●	●	●	●	●
<b>T53R</b>		(without power supply terminal) Right-sided specifications	●	●	●	●	●	●
<b>D Serial transmission (lamp/surge suppressor provided as standard) 24 VDC</b>								
<b>T6A0</b>	UNIWIRESYSTEM	NPN 8 points	●	●	●	●	●	●
<b>T6A1</b>		NPN 16 points	●	●	●	●	●	●
<b>T6C0</b>	CompoBus/S	NPN 8 points	●	●	●	●	●	●
<b>T6C1</b>		NPN 16 points	●	●	●	●	●	●
<b>T6E0</b>	S-LINK	NPN 8 points	●	●	●	●	●	●
<b>T6E1</b>		NPN 16 points	●	●	●	●	●	●
<b>T6G1</b>	CC-Link	NPN 16 points	●	●	●	●	●	●
<b>T6J0</b>		UNIWIRESYSTEM H	NPN 8 points	●	●	●	●	●
<b>T6J1</b>	NPN 16 points		●	●	●	●	●	●
<b>T8G1</b>	CC-Link	NPN 16 points	●	●	●	●	●	●
<b>T8G2</b>		NPN 32 points	●	●	●	●	●	●
<b>T8GP1</b>	(thin)	PNP 16 points	●	●	●	●	●	●
<b>T8GP2</b>		PNP 32 points	●	●	●	●	●	●
<b>T8P1</b>	PROFIBUS-DP	NPN 16 points	●	●	●	●	●	●
<b>T8P2</b>		NPN 32 points	●	●	●	●	●	●
<b>T8PP1</b>	(thin)	PNP 16 points	●	●	●	●	●	●
<b>T8PP2</b>		PNP 32 points	●	●	●	●	●	●
<b>T8EC1</b>	EtherCAT	NPN 16 points	●	●	●	●	●	●
<b>T8EC2</b>		NPN 32 points	●	●	●	●	●	●
<b>T8ECP1</b>	(thin)	PNP 16 points	●	●	●	●	●	●
<b>T8ECP2</b>		PNP 32 points	●	●	●	●	●	●
<b>T8EN1</b>	EtherNet/IP	NPN 16 points	●	●	●	●	●	●
<b>T8EN2</b>		NPN 32 points	●	●	●	●	●	●
<b>T8ENP1</b>	(thin)	PNP 16 points	●	●	●	●	●	●
<b>T8ENP2</b>		PNP 32 points	●	●	●	●	●	●
<b>A2N</b>	Without lead wire (without socket)	with surge suppressor/indicator lamp	●	●	●	●	●	●

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

Ozone-proof specifications · Coolant proof specifications

Can be selected with "How to order" Item (F) option "A" on page 138.

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

- Anti-dust generation structure for use in cleanrooms
- For use in the rechargeable battery manufacturing process, materials used for air path and sliding section are limited

\*\* - Voltage - **P7\***

\*\* - Voltage - **P4**

CE marking specifications

\*\* - Voltage - **ST**

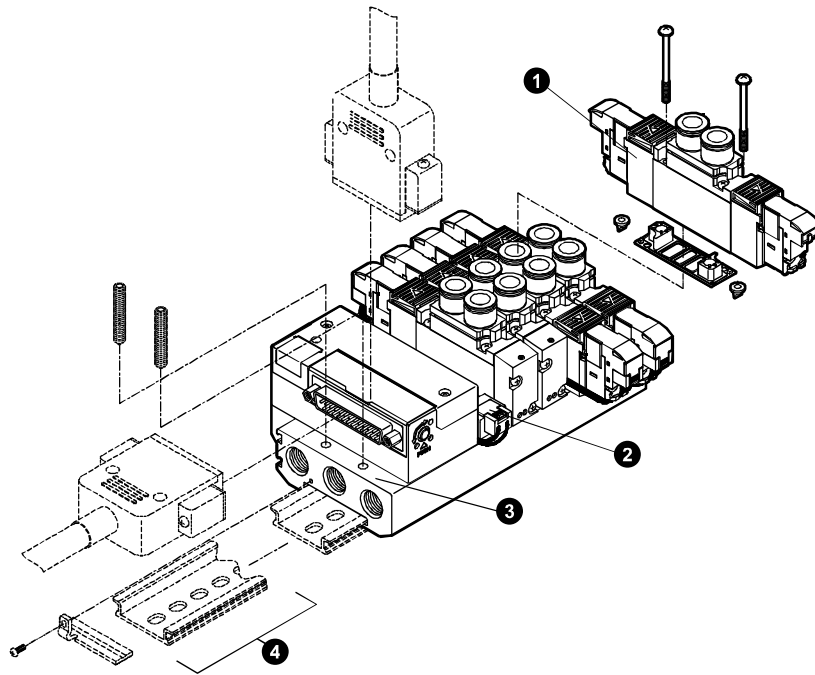
# M4GA1/2/3-T\*(D) Series

Reduced wiring manifold; body piping

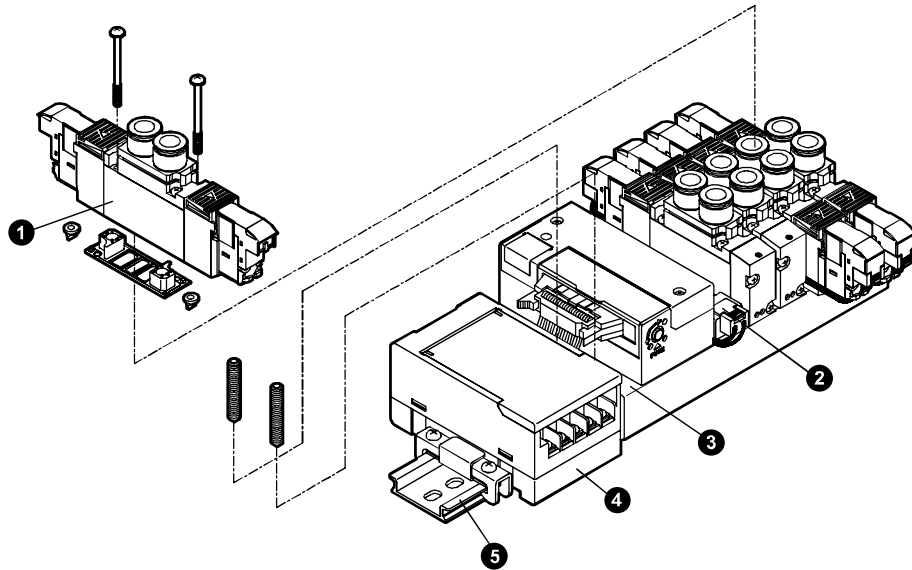
## Manifold components explanation and parts list

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

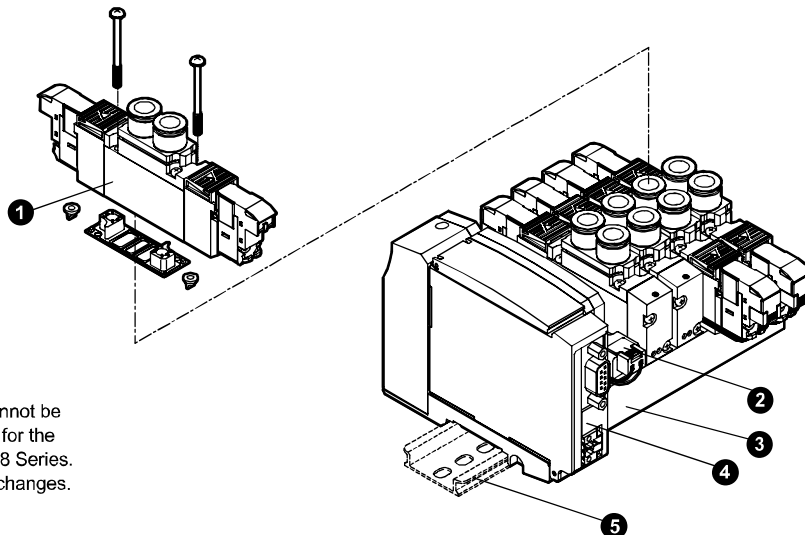
### ●T30



### ●T6D



### ●T8\*



\* Mount (direct, DIN rail) cannot be changed after purchasing for the M4GA2-T8 and M4GA3-T8 Series. M4GA1-T8 Series allows changes.

# M<sub>4</sub>GA1/2/3-T\*(D) Series

Reduced wiring manifold; body piping; serial transmission

## Main parts list

No.	Component name	Model No.	Content	Remarks
1	Discrete valve for mounting base	4GA □ □ 9R- <input type="checkbox"/> Port size -A2N <input type="checkbox"/> Option <input type="checkbox"/> Voltage <input type="checkbox"/> <div style="margin-left: 40px;"> <input type="checkbox"/> Solenoid position  <input type="checkbox"/> Series flow rate size                 </div>	Single valve Gasket Mounting screws 2 PR check valve 2	Details on page 138
2	Masking plate	3G1/4G1	4G1R-MP	Masking plate
		3G2/4G2	4G2R-MP	Gasket
		3G3/4G3	4G3R-MP	Mounting screws 2
3	Manifold base assembly	M4GA □ □ R-00- <input type="checkbox"/> T56 <input type="checkbox"/> -Option <input type="checkbox"/> -Station No. <input type="checkbox"/> <div style="margin-left: 40px;"> <input type="checkbox"/> Series flow rate size                 </div>	Manifold base Wiring block	
4	Serial transmission slave unit	4GR-OPP3 - <input type="checkbox"/> wiring method	Serial transmission slave unit	Details on page 156
		4GR-OPP7 - <input type="checkbox"/> wiring method		
5	DIN rail kit			Details on page 197

## Parts list

No.	Part name	Model No.	No.	Part name	Model No.		
-	Coil assembly	4GR-A2N- <input type="checkbox"/> -COIL- <input type="checkbox"/> Voltage <input type="checkbox"/> Blank: Standard A: Ozone/coolant proof S: Surgeless E: Low exoergic/energy saving circuit	-	Cartridge push-in fitting and related parts	4G1	φ1.8 barbed	4G1R-JOINT-CF
			4G1		φ1.8 axial	4G1R-JOINT-C18	
			4G1		φ4 straight	4G1R-JOINT-C4	
			4G1		φ6 straight	4G1R-JOINT-C6	
			4G1		Plug cartridge	4G1R-JOINT-CPG	
			4G2		φ4 straight	4G2R-JOINT-C4	
			4G2		φ6 straight	4G2R-JOINT-C6	
			4G2		φ8 straight	4G2R-JOINT-C8	
			4G2		Plug cartridge	4G2R-JOINT-CPG	
			4G3		φ6 straight	4G3R-JOINT-C6	
			4G3		φ8 straight	4G3R-JOINT-C8	
			4G3		φ10 straight	4G3R-JOINT-C10	
			4G3		Plug cartridge	4G3R-JOINT-CPG	
	A type connector Socket assembly Details on page 737	4G □ □ R-SOCKET-ASSY-A □ □ - <input type="checkbox"/> Row No. <input type="checkbox"/> Blank: Left side, R: Right side A: aSOL side, B: bSOL side n: Specify position of valve to be connected					

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

# M4GA1-T\* Series

Reduced wiring manifold; body piping

## Dimensions

4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E  
MN4E

W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0  
MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G  
GMF

PV5  
GMF

PV5S-0

3QR  
3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

4F\*0E

HMV  
HSV

2QV  
3QV

SKH

PCD

Slencer

TotAirSys  
(TotalAir)

TotAirSys  
(Gamma)

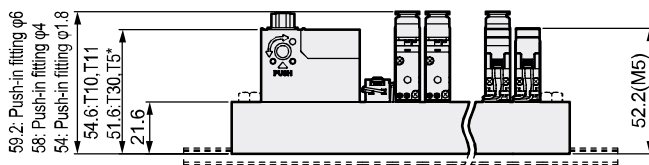
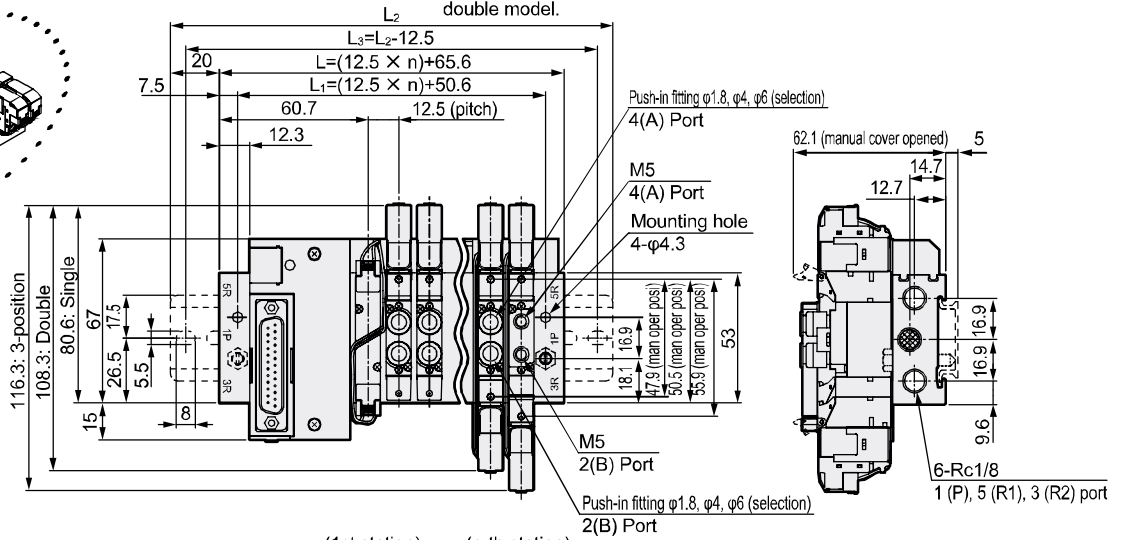
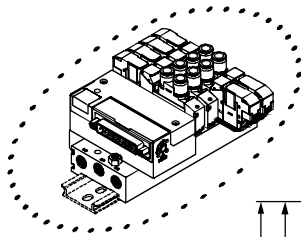
Ending

### M4GA1

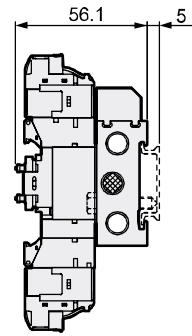
● Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)

\* Figure shows T30. Refer to pages 154 to 155 for detailed wiring block dimensions.

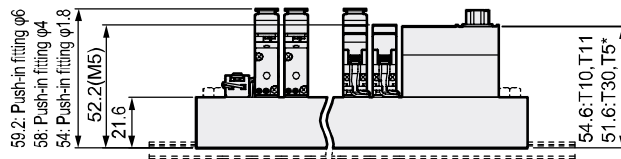
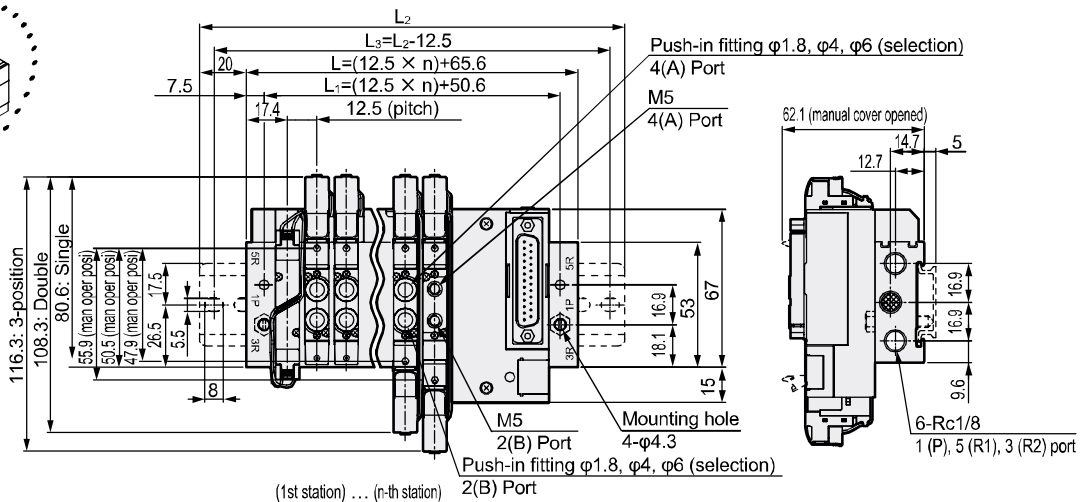
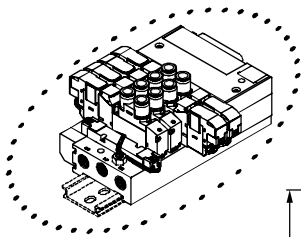
\* For the 2-position single 3-port valve, either A port or B port is a plug. In addition, the two 3-port valve integrated has the same dimensions as the double model.



●  $\phi 1.8$  barbed fitting (CF)



● Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Strn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	90.6	103.1	115.6	128.1	140.6	153.1	165.6	178.1	190.6	203.1	215.6	228.1	240.6	253.1	265.6	278.1	290.6	303.1	315.6
L <sub>1</sub>	75.6	88.1	100.6	113.1	125.6	138.1	150.6	163.1	175.6	188.1	200.6	213.1	225.6	238.1	250.6	263.1	275.6	288.1	300.6
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

### Dimensions

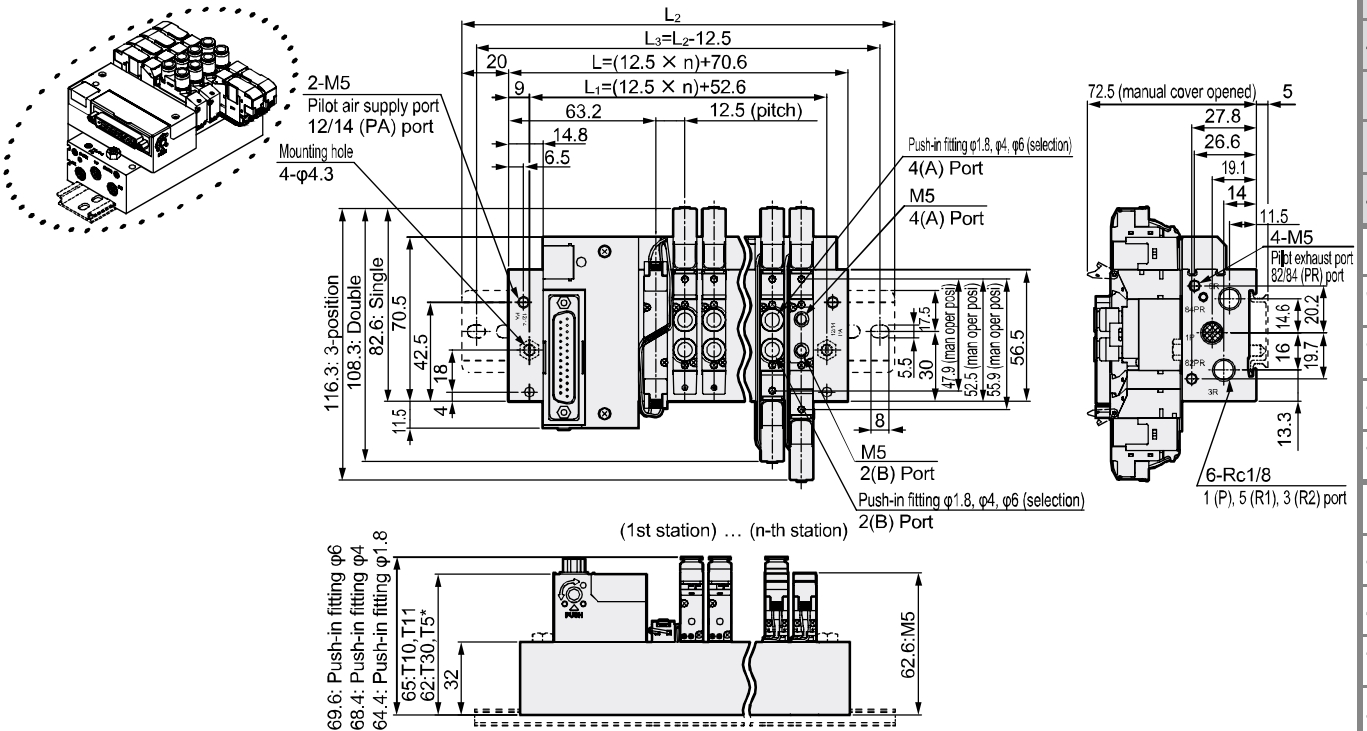


### M4GA1

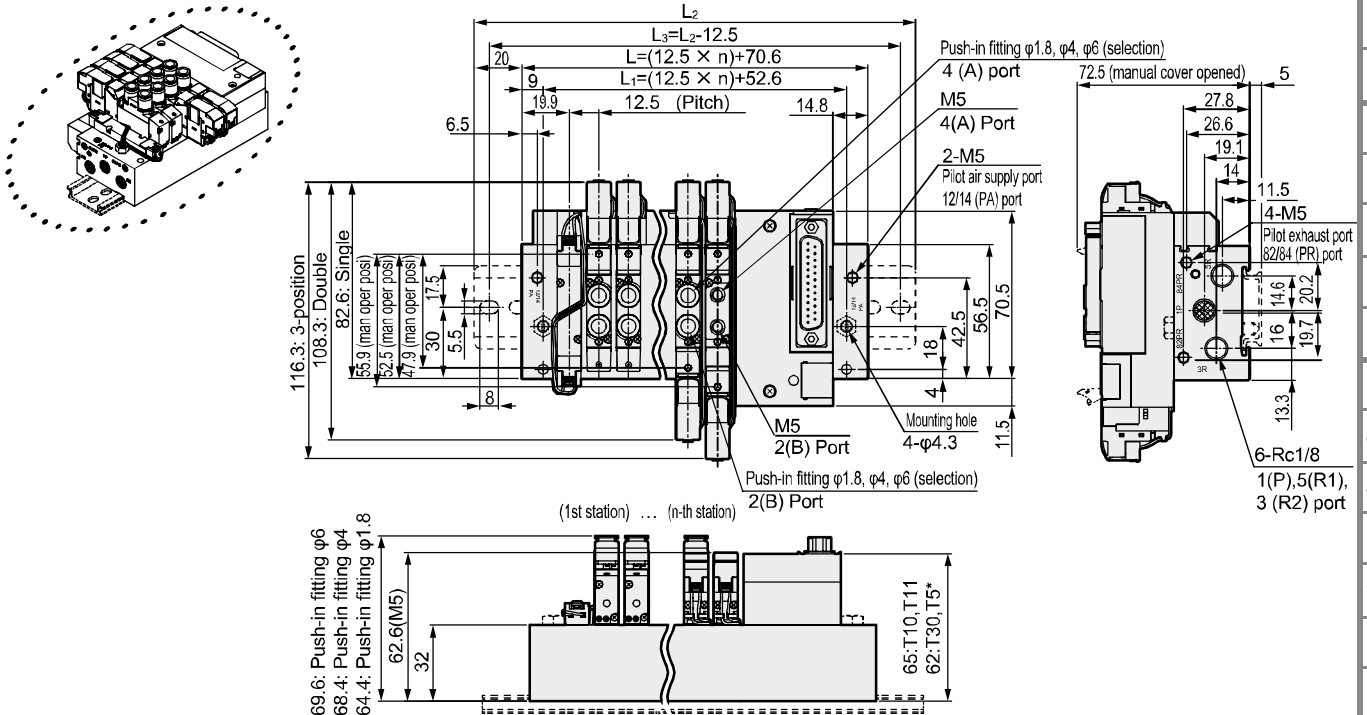
- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)

\* Figure shows T30. Refer to pages 154 to 155 for detailed wiring block dimensions.

\* For the 2-position single 3-port valve, either A port or B port is a plug.



- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



Stn No.	2	3	4	5	6	7	8	9	10	11	12
L	95.6	108.1	120.6	133.1	145.6	158.1	170.6	183.1	195.6	208.1	220.6
L <sub>1</sub>	77.6	90.1	102.6	115.1	127.6	140.1	152.6	165.1	177.6	190.1	202.6
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

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

# M4GA1-T6D Series

Reduced wiring manifold; body piping; serial transmission

## Dimensions

4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA1/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

Slencer

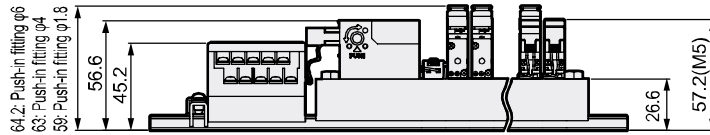
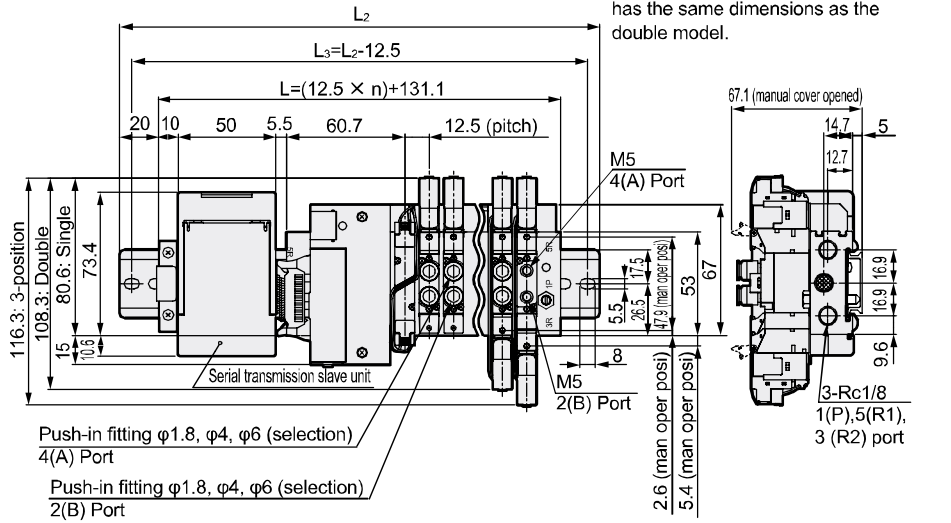
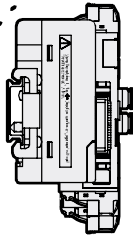
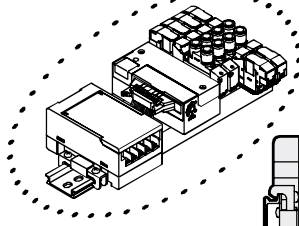
TotAirSys  
(TotalAir)

TotAirSys  
(Gamma)

Ending

### M4GA1

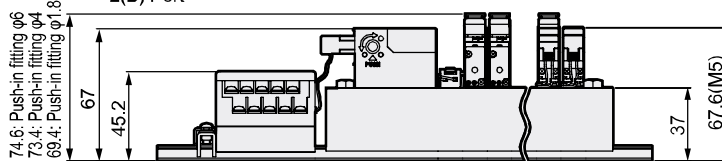
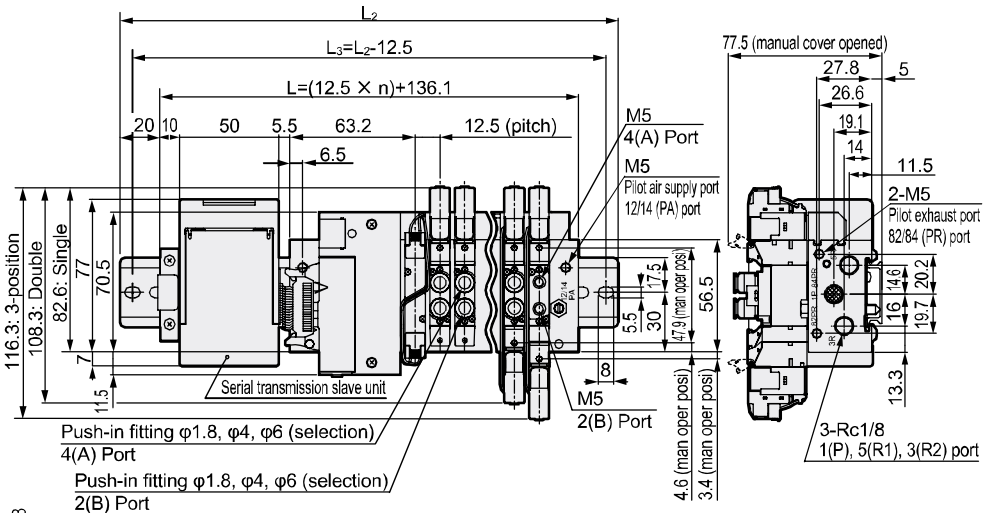
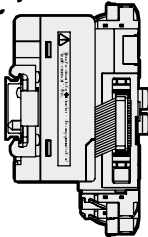
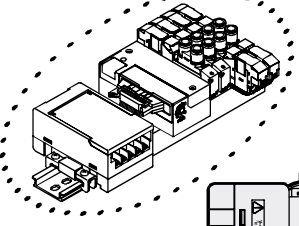
- Serial transmission (T6□)  
DIN rail mounting (D)



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	156.1	168.6	181.1	193.6	206.1	218.6	231.1	243.6	256.1	268.6	281.1	293.6	306.1	318.6	331.1
L <sub>2</sub>	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0
L <sub>3</sub>	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5

### M4GA1

- Serial transmission (T6□)  
DIN rail mounting (D); external pilot (K)

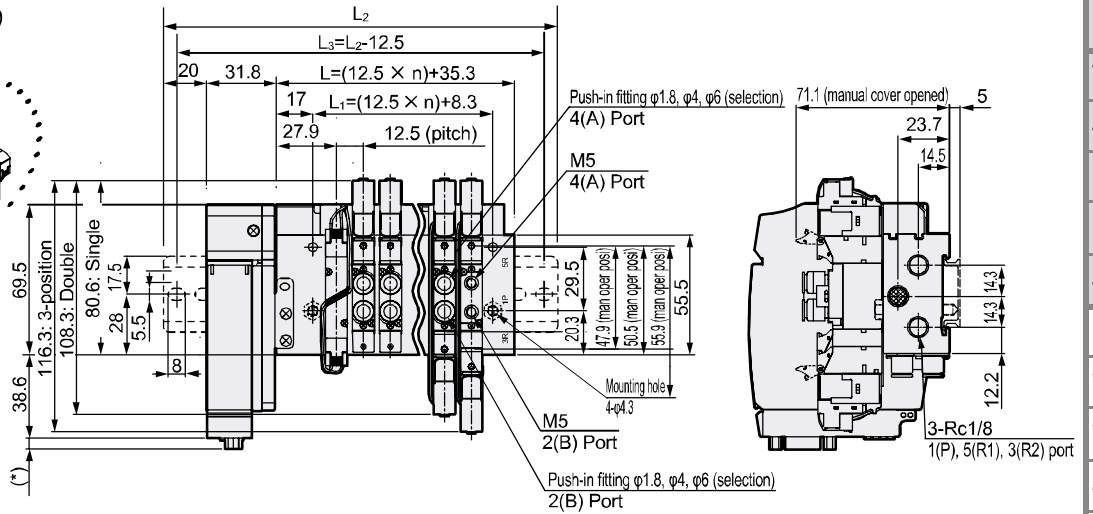
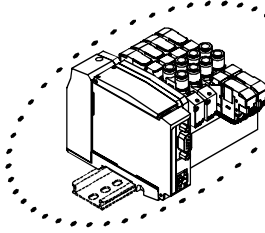


Stn No.	2	3	4	5	6	7	8	9	10	11	12
L	161.1	173.6	186.1	198.6	211.1	223.6	236.1	248.6	261.1	273.6	286.1
L <sub>2</sub>	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5
L <sub>3</sub>	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0

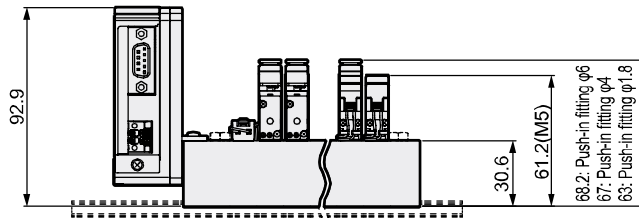
## Dimensions

### M4GA1

- Serial transmission (T8  )
- DIN rail mounting (D)



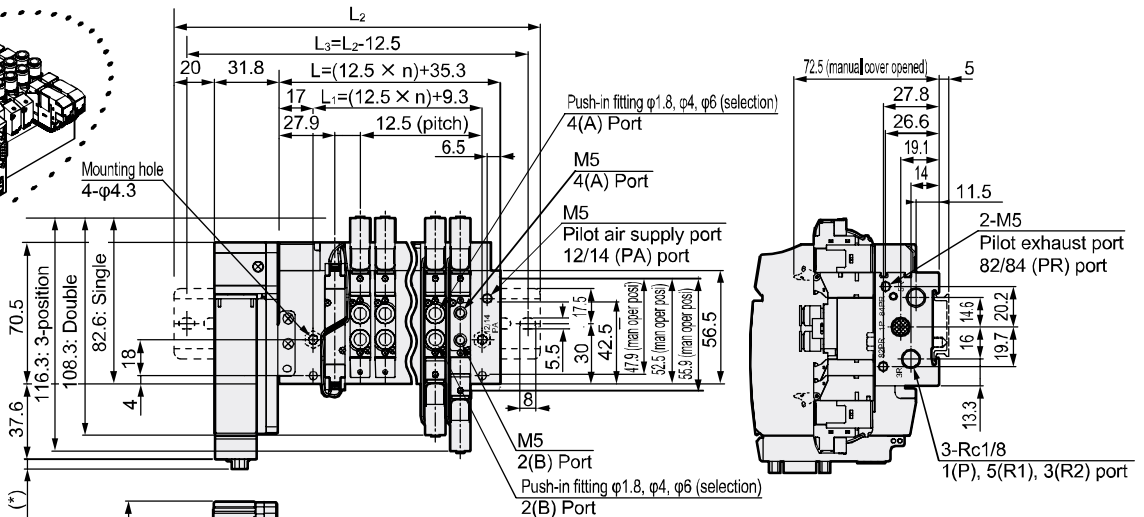
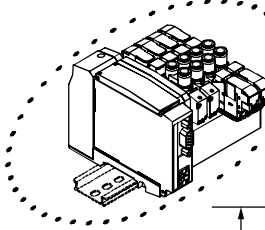
Serial transmission	(*) Dimensions
T8G <span style="border: 1px solid black; padding: 0 2px;"> </span>	1.0
T8P <span style="border: 1px solid black; padding: 0 2px;"> </span>	4.9
T8E <span style="border: 1px solid black; padding: 0 2px;"> </span>	1.5



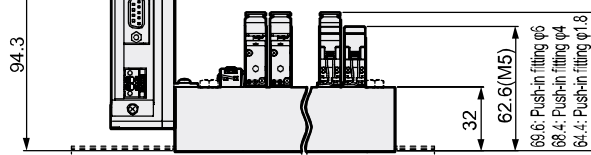
Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3	197.8	210.3	222.8	235.3	247.8	260.3	272.8	285.3
L <sub>1</sub>	33.3	45.8	58.3	70.8	83.3	95.8	108.3	120.8	133.3	145.8	158.3	170.8	183.3	195.8	208.3	220.8	233.3	245.8	258.3
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

### M4GA1

- Serial transmission (T8  )
- DIN rail mounting (D); external pilot (K)



Serial transmission	(*) Dimensions
T8G <span style="border: 1px solid black; padding: 0 2px;"> </span>	1.0
T8P <span style="border: 1px solid black; padding: 0 2px;"> </span>	4.9
T8E <span style="border: 1px solid black; padding: 0 2px;"> </span>	1.5



Stn No.	2	3	4	5	6	7	8	9	10	11	12
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3
L <sub>1</sub>	34.3	46.8	59.3	71.8	84.3	96.8	109.3	121.8	134.3	146.8	159.3
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

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

# M4GA2-T\* Series

Reduced wiring manifold; body piping

## Dimensions



4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

4TB

4L2-4/

LMF0

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G

GMF

PV5

GMF

PV5S-0

3QR

3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/

NVP

4F\*0EX

4F\*0E

HMV

HSV

2QV

3QV

SKH

PCD

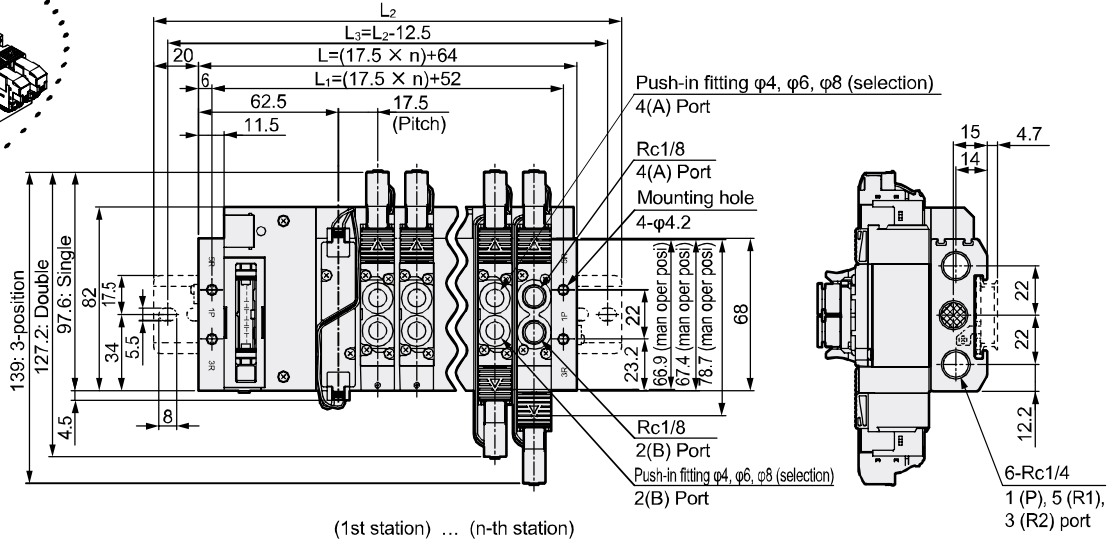
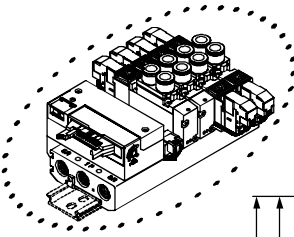
Silencer

### M4GA2

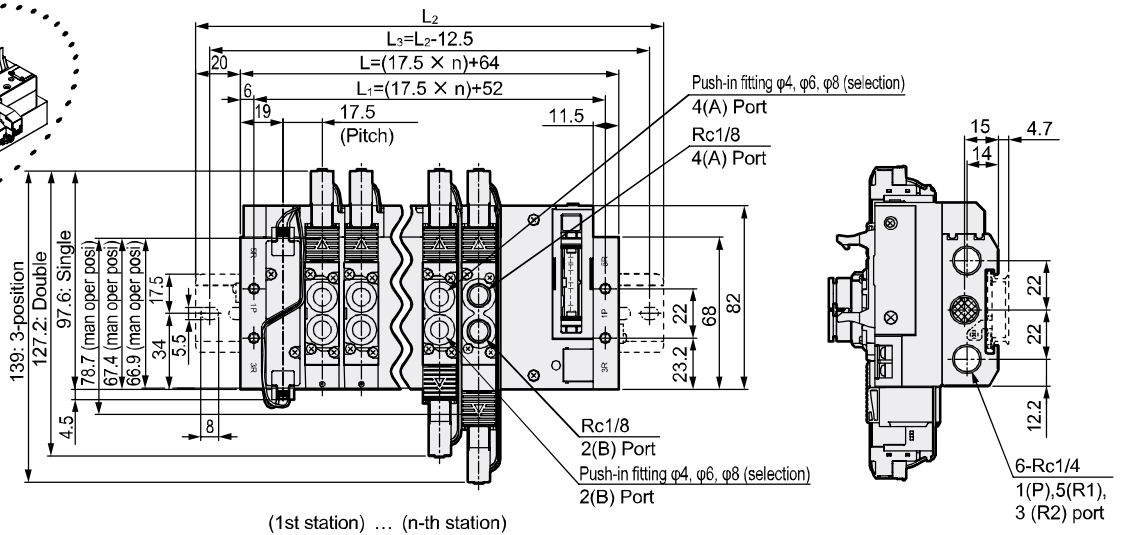
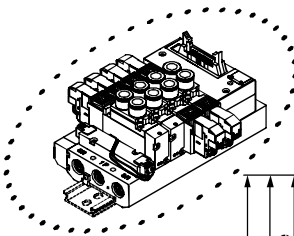
● Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)

\* Figure shows T50. Refer to pages 154 to 155 for detailed wiring block dimensions.

\* For the 2-position single 3-port valve, either A port or B port is a plug. In addition, the two 3-port valve integrated has the same dimensions as the double model.



● Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Strn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0	396.5	414.0
L <sub>1</sub>	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0	384.5	402.0
L <sub>2</sub>	150.0	162.5	175.0	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5				
L <sub>3</sub>	137.5	150.0	162.5	187.5	200.0	225.0	237.5	250.0	275.0	287.5	312.5	325.0	337.5	362.5	375.0				

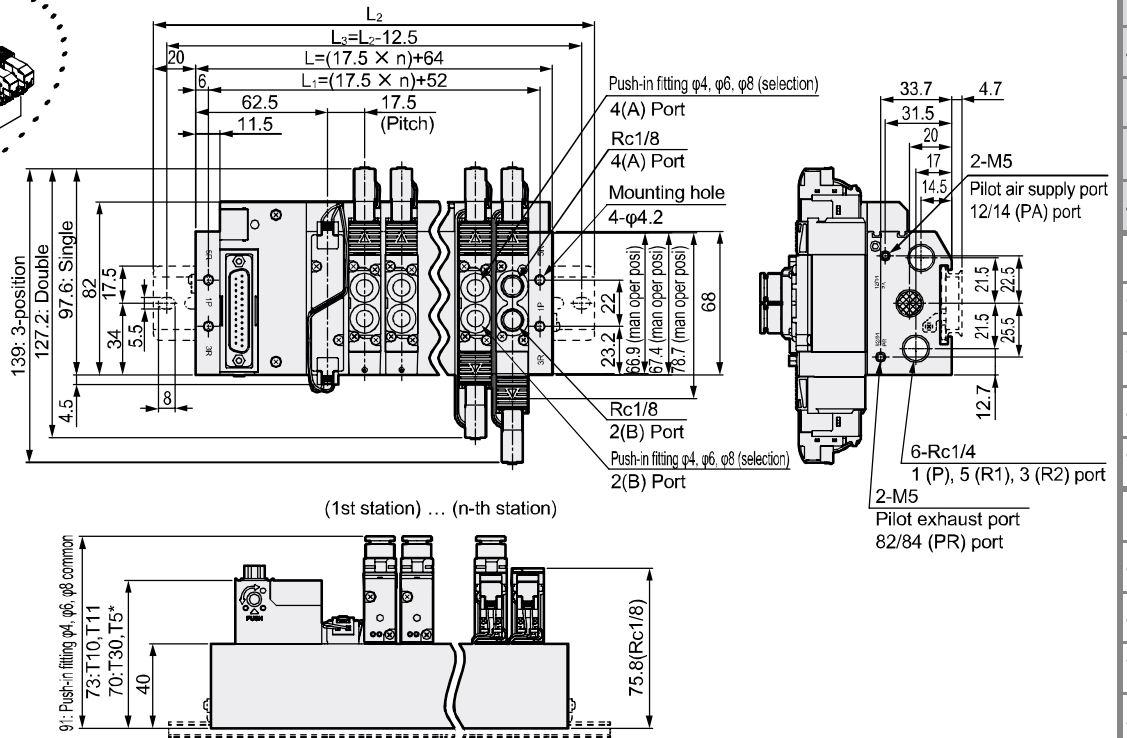
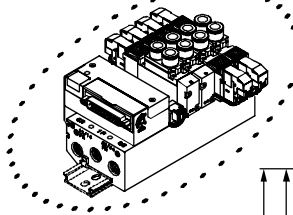


### Dimensions

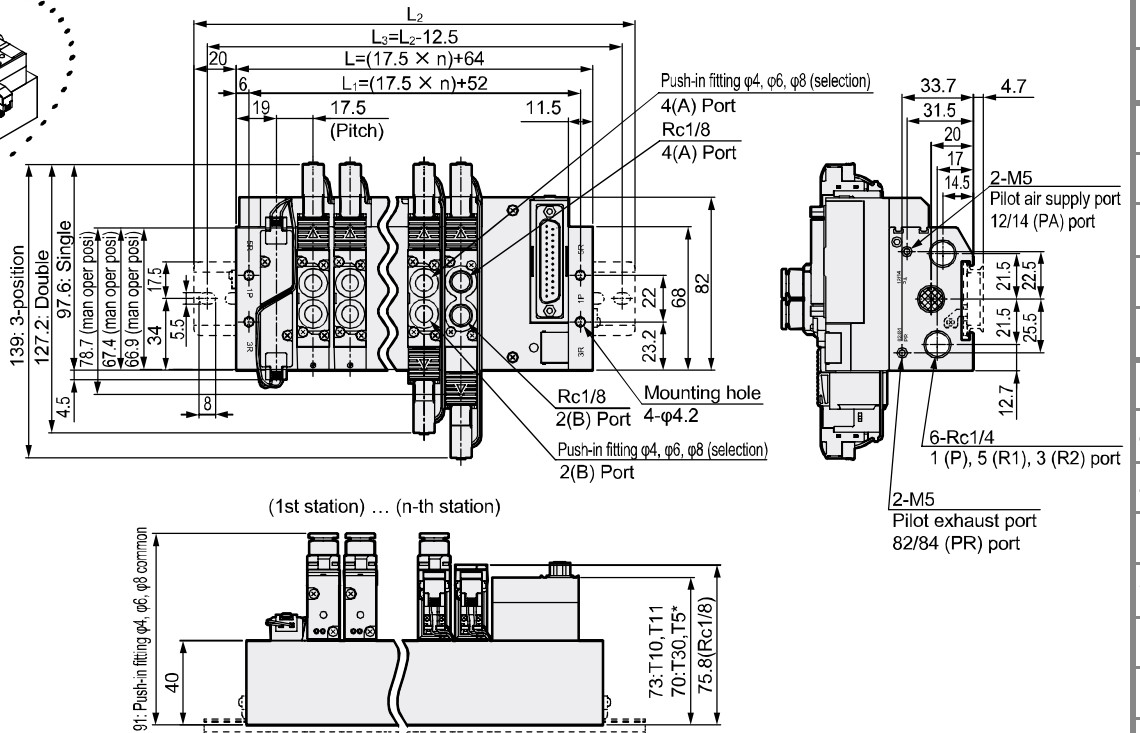
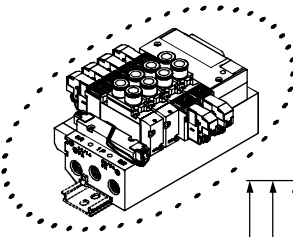


### M4GA2

- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)



- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0	396.5	414.0
L <sub>1</sub>	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0	384.5	402.0
L <sub>2</sub>	150.0	162.5	175.0	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5				
L <sub>3</sub>	137.5	150.0	162.5	187.5	200.0	225.0	237.5	250.0	275.0	287.5	312.5	325.0	337.5	362.5	375.0				

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

# M4GA2-T6D Series

Reduced wiring manifold; body piping; serial transmission

## Dimensions



4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E  
MN4E

W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0  
MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G  
GMF

PV5  
GMF

PV5S-0

3QR  
3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

4F\*0E

HMV  
HSV

2QV  
3QV

SKH

PCD

Silencer

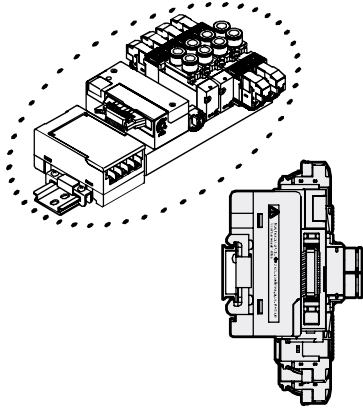
TotAirSys  
(TotalAir)

TotAirSys  
(Gamma)

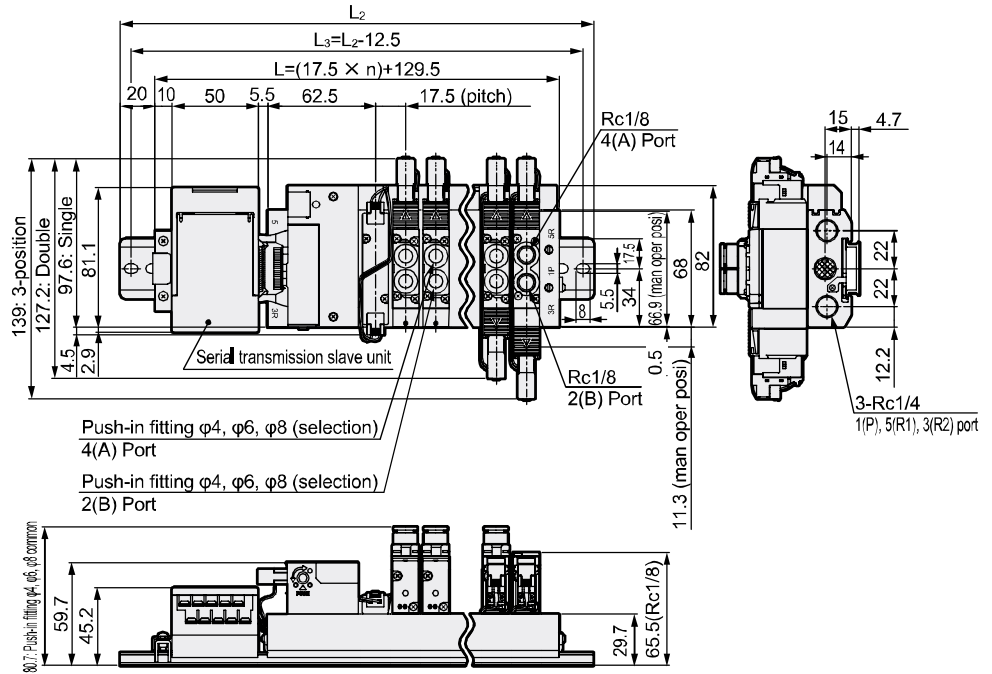
Ending

### M4GA2

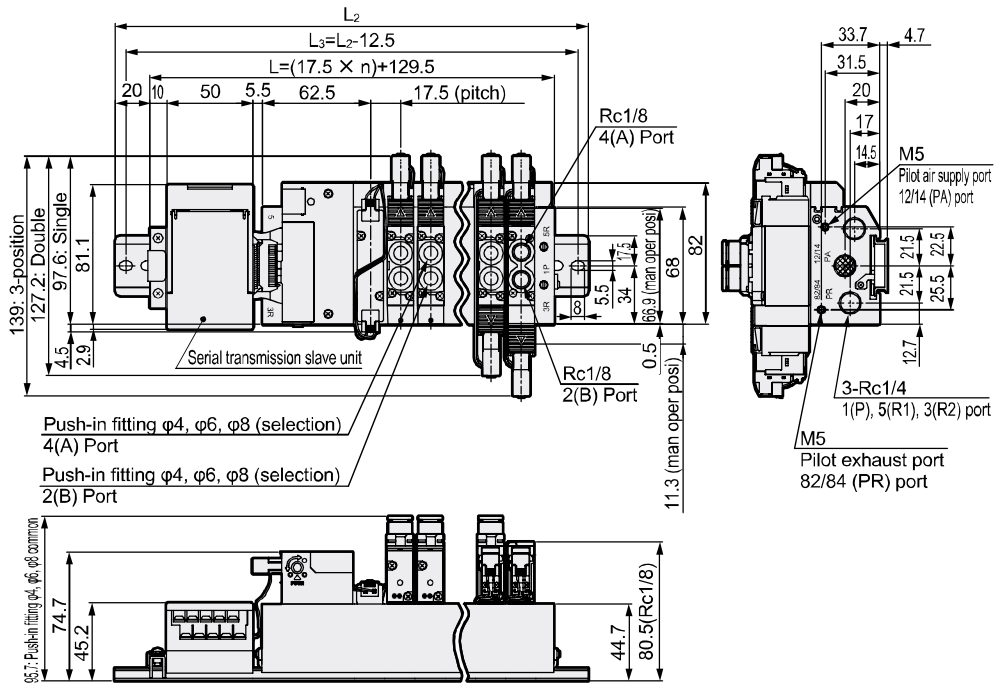
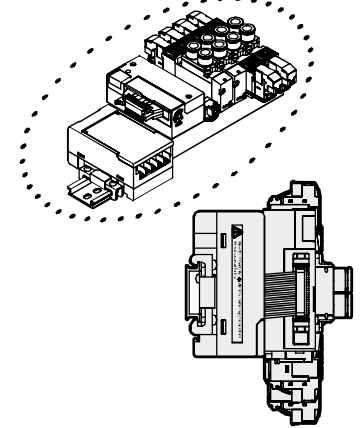
- Serial transmission (T6□)  
DIN rail mounting (D)



\* For the 2-position single 3-port valve, either A port or B port is a plug. In addition, the two 3-port valve integrated has the same dimensions as the double model.



- Serial transmission (T6□)  
DIN rail mounting (D); external pilot (K)



Strn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	164.5	182.0	199.5	217.0	234.5	252.0	269.5	287.0	304.5	322.0	339.5	357.0	374.5	392.0	409.5
L <sub>2</sub>	212.5	225.0	250.0	262.5	275.0	300.0	312.5	337.5	350.0	362.5	387.5	400.0	425.0	437.5	450.0
L <sub>3</sub>	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5	412.5	425.0	437.5

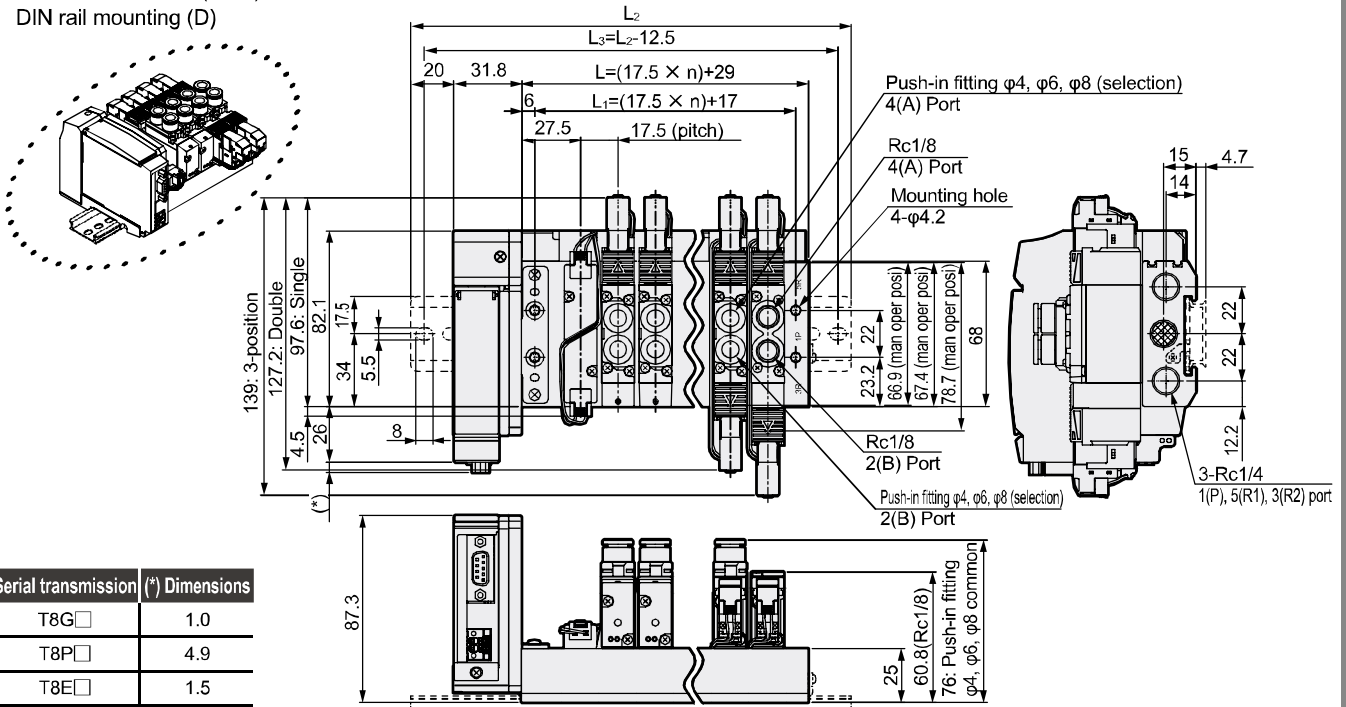
# M4GA2-T8\* Series

Reduced wiring manifold; body piping; serial transmission

## Dimensions

### M4GA2

- Serial transmission (T8□)
- DIN rail mounting (D)

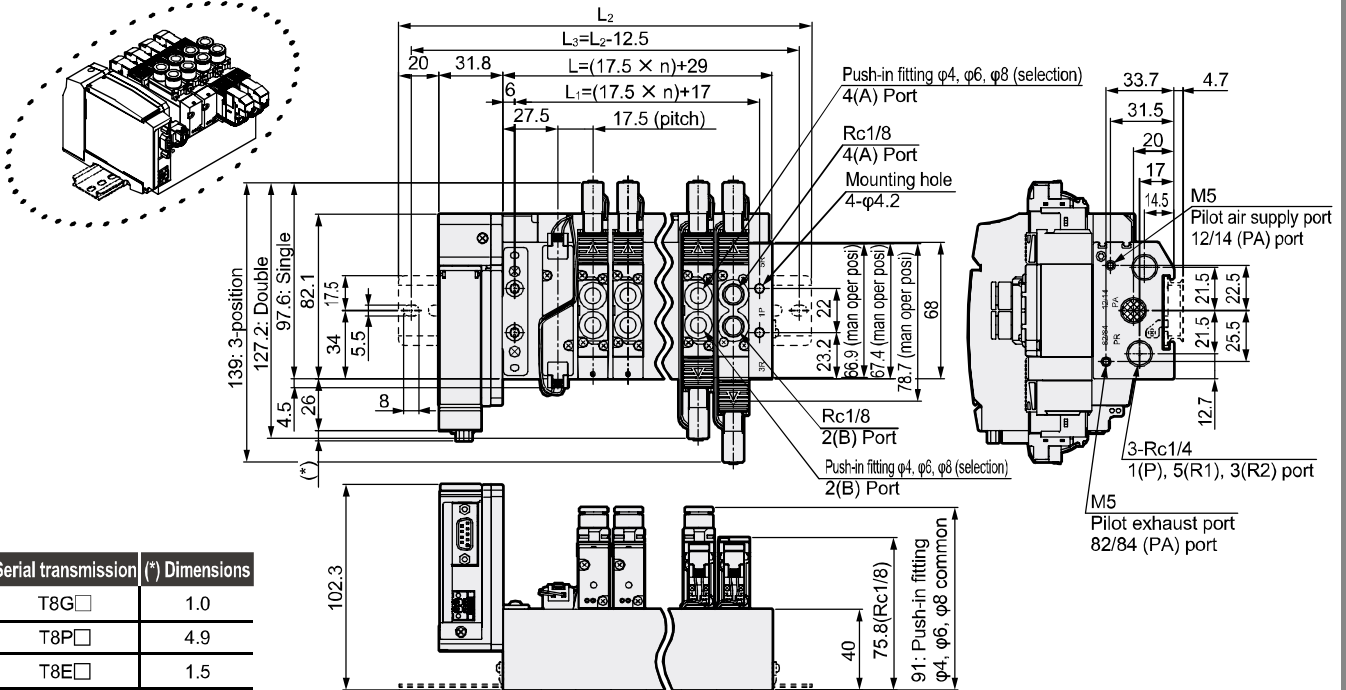


Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L <sub>1</sub>	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L <sub>2</sub>	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L <sub>3</sub>	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

### M4GA2

- Serial transmission (T8□)
- DIN rail mounting (D); external pilot (K)



Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L <sub>1</sub>	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L <sub>2</sub>	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L <sub>3</sub>	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

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

# M4GA3-T\* Series

Reduced wiring manifold; body piping

## Dimensions

4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E  
MN4E

W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0  
MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G  
GMF

PV5  
GMF

PV5S-0

3QR  
3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

4F\*0E

HMV  
HSV

2QV  
3QV

SKH

PCD

Slencer

TotAirSys  
(TotalAir)

TotAirSys  
(Gamma)

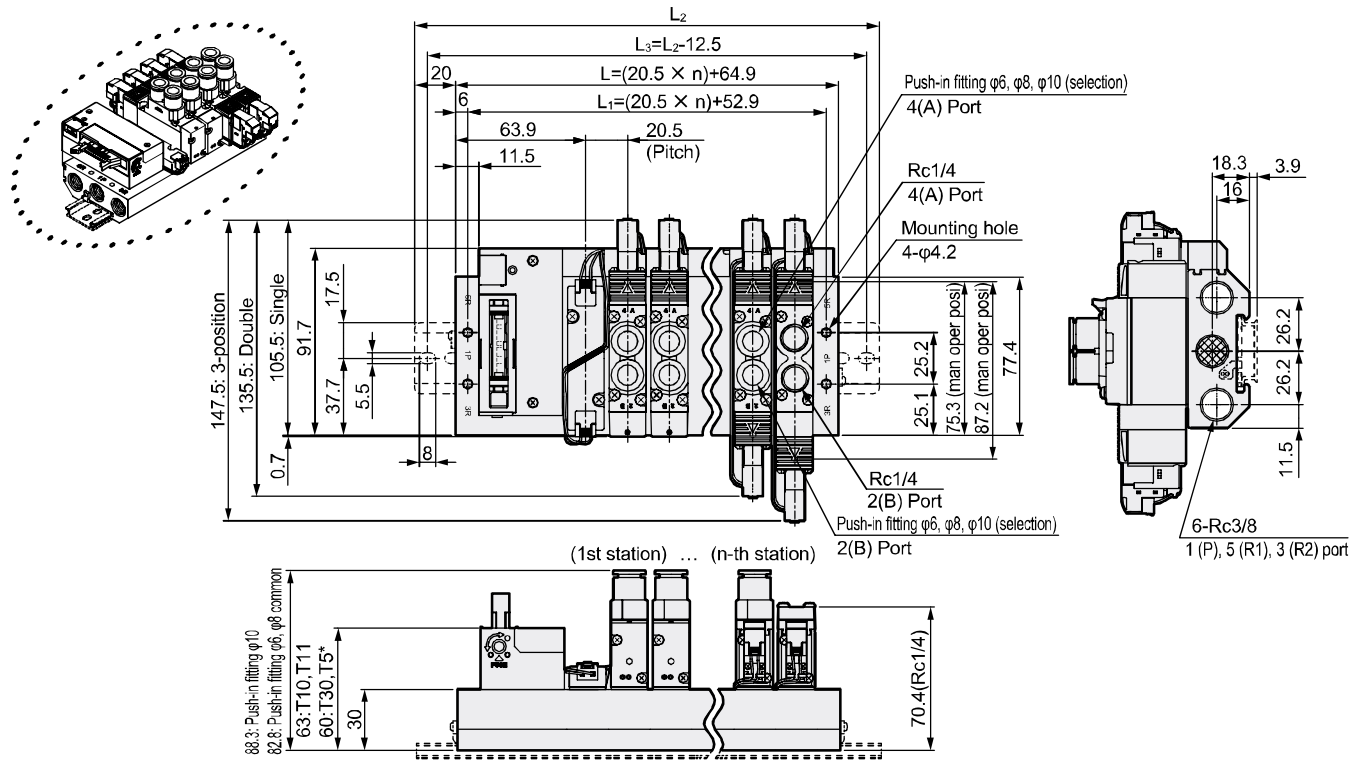
Ending

### M4GA3

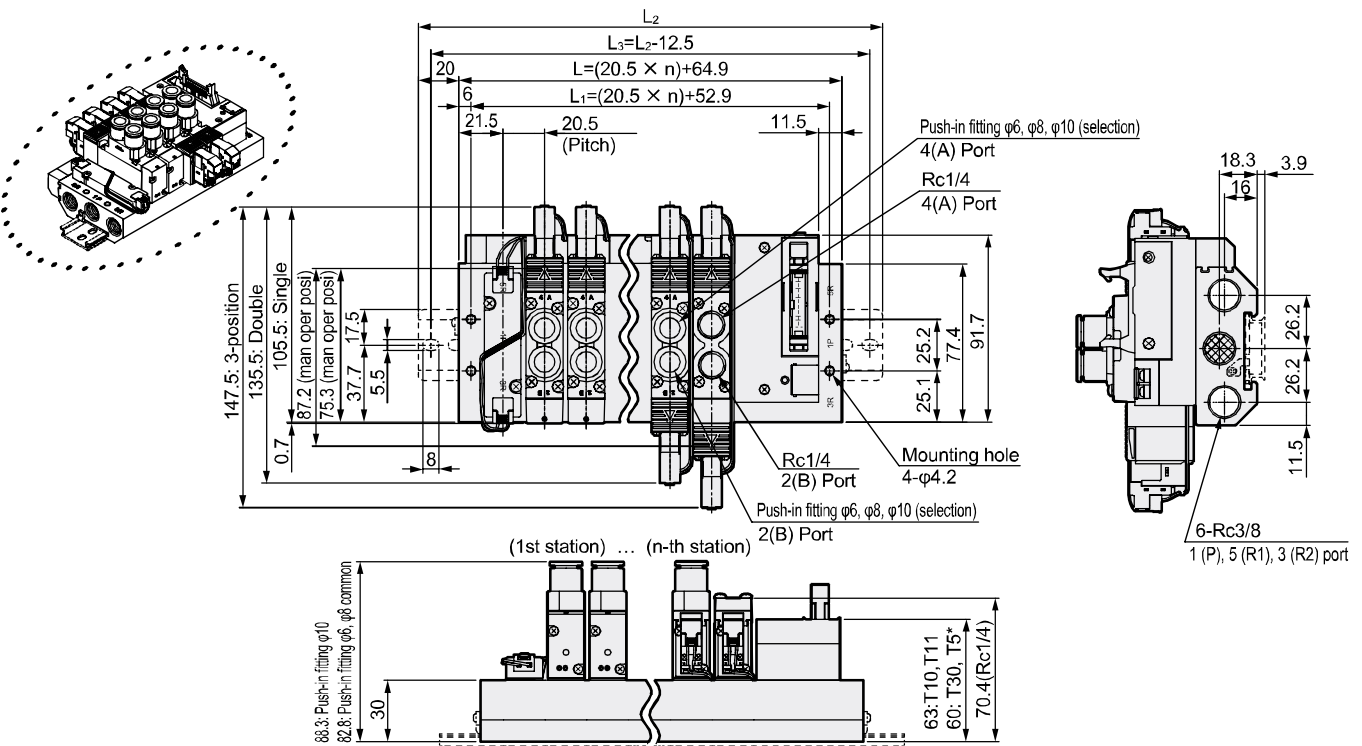
● Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)

\* Figure shows T50. Refer to pages 154 to 155 for detailed wiring block dimensions.

\* For the 2-position single 3-port valve, either A port or B port is a plug.



● Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Strn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	105.9	126.4	146.9	167.4	187.9	208.4	228.9	249.4	269.9	290.4	310.9	331.4	351.9	372.4	392.9
L <sub>1</sub>	93.9	114.4	134.9	155.4	175.9	196.4	216.9	237.4	257.9	278.4	298.9	319.4	339.9	360.4	380.9
L <sub>2</sub>	150.0	175.0	187.5	212.5	237.5	250.0	275.0	300.0	312.5	337.5	362.5	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	175.0	200.0	225.0	237.5	262.5	287.5	300.0	325.0	350.0	362.5	387.5	400.0	425.0

# M4GA3-T\* Series

Reduced wiring manifold; body piping

## Dimensions

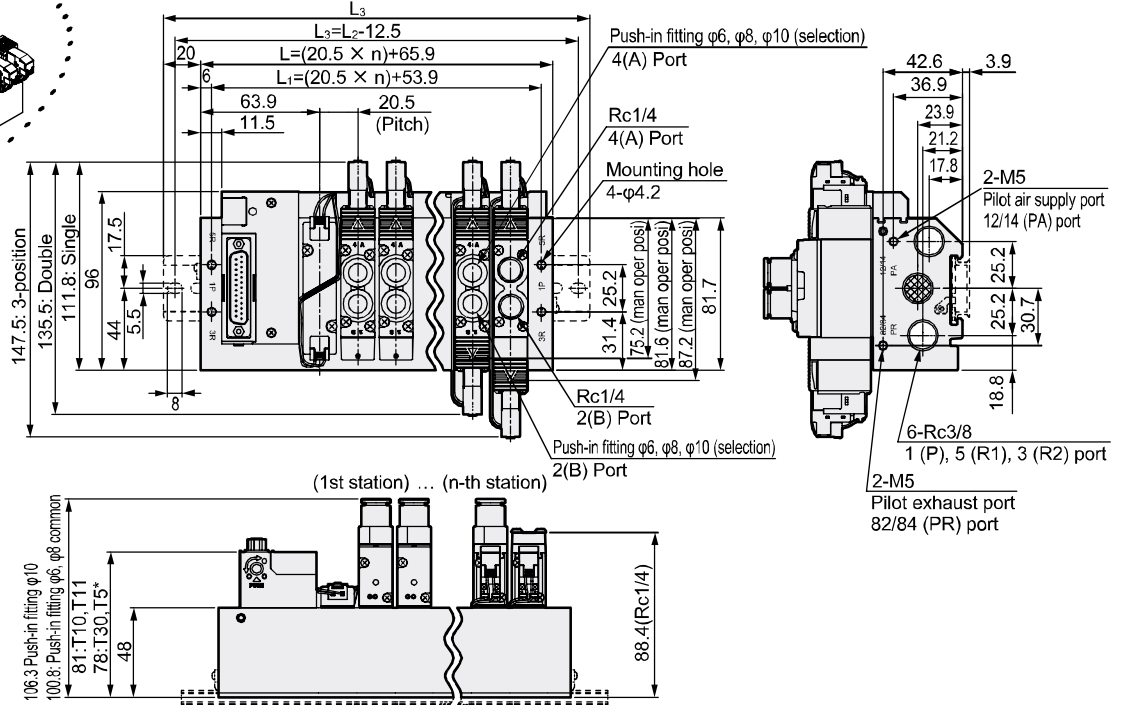
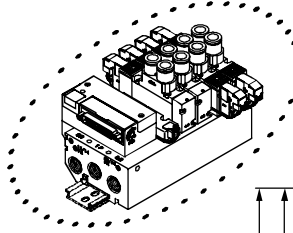


### M4GA3

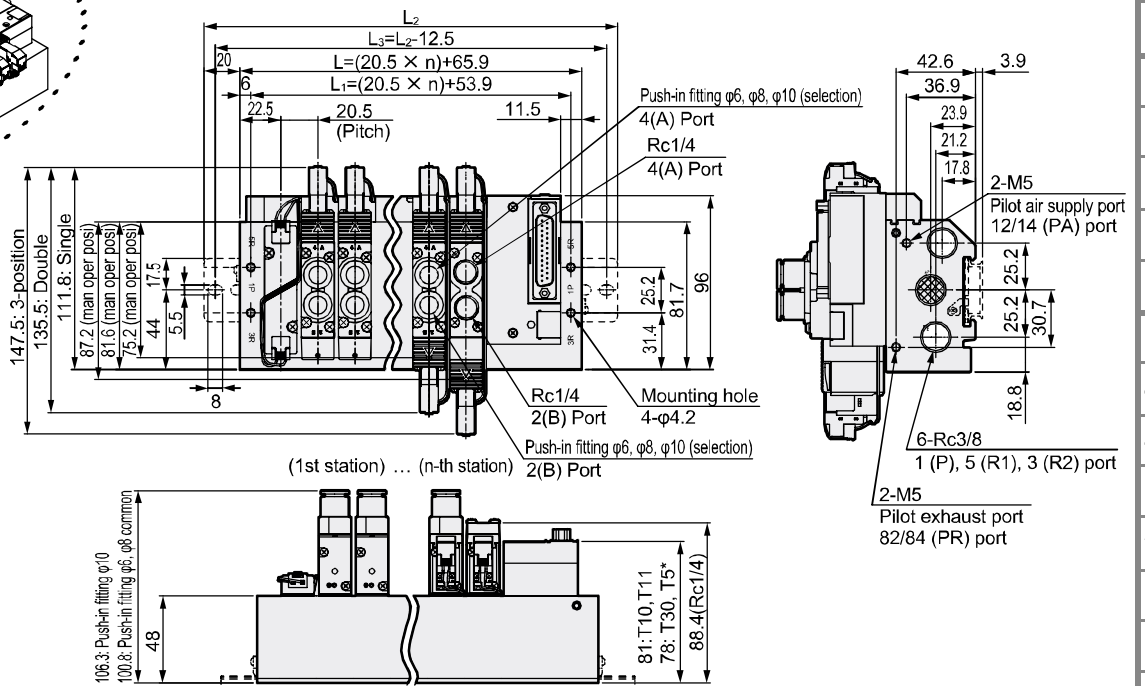
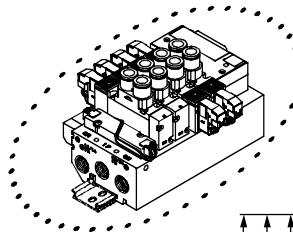
- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)

\* Figure shows T30. Refer to pages 154 to 155 for detailed wiring block dimensions.

\* For the 2-position single 3-port valve, either A port or B port is a plug.



- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	106.9	127.4	147.9	168.4	188.9	209.4	229.9	250.4	270.9	291.4	311.9	332.4	352.9	373.4	393.9
L <sub>1</sub>	94.9	115.4	135.9	156.4	176.9	197.4	217.9	238.4	258.9	279.4	299.9	320.4	340.9	361.4	381.9
L <sub>2</sub>	150.0	175.0	200.0	225.0	250.0	275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0	500.0
L <sub>3</sub>	137.5	162.5	187.5	212.5	237.5	262.5	287.5	312.5	337.5	362.5	387.5	412.5	437.5	462.5	487.5

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

# M4GA3-T6D Series

Reduced wiring manifold; body piping; serial transmission

## Dimensions



4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E  
MN4E

W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0  
MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G  
GMF

PV5  
GMF

PV5S-0

3QR  
3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

4F\*0E

HMV  
HSV

2QV  
3QV

SKH

PCD

Silencer

TotAirSys  
(TotalAir)

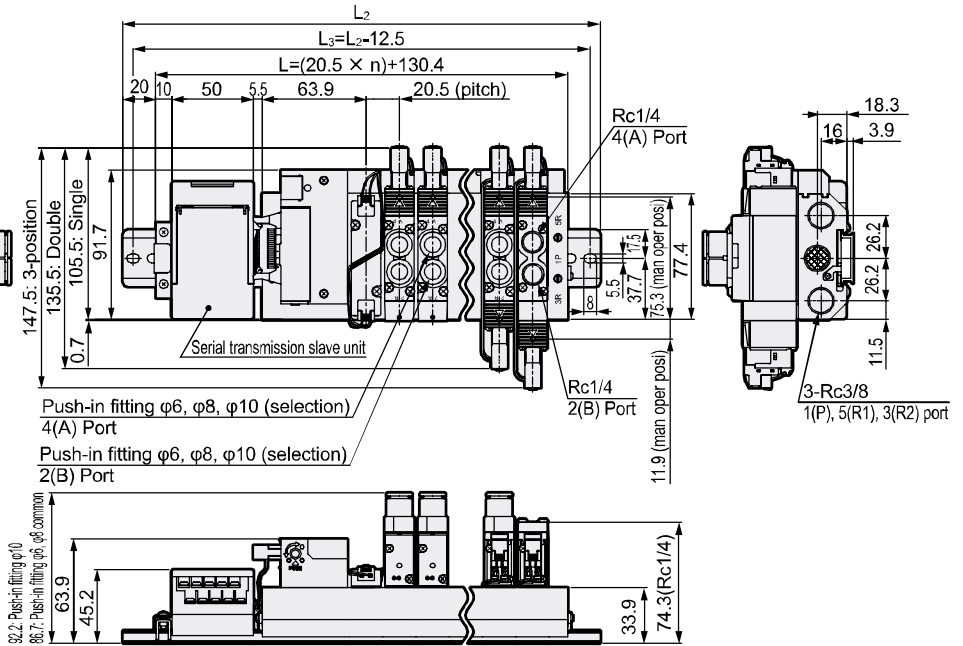
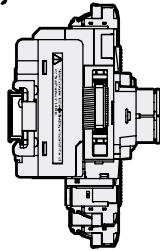
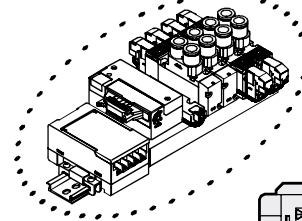
TotAirSys  
(Gamma)

Ending

### M4GA3

- Serial transmission (T6□)  
DIN rail mounting (D)

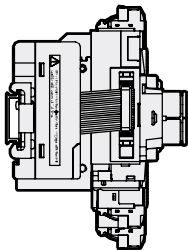
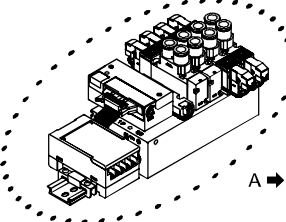
\* For the 2-position single 3-port valve, either A port or B port is a plug.



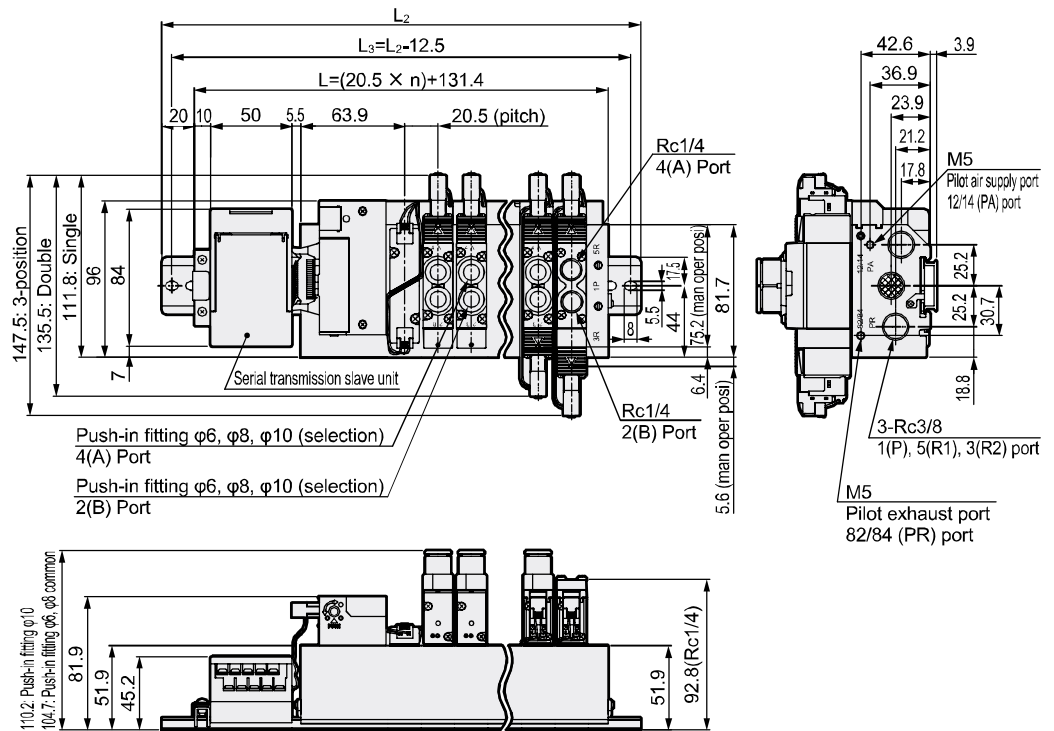
Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	171.4	191.9	212.4	232.9	253.4	273.9	294.4	314.9	335.4	355.9	376.4	396.9	417.4	437.9	458.4
L <sub>2</sub>	212.5	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0	437.5	462.5	487.5	500.0
L <sub>3</sub>	200.0	225.0	250.0	262.5	287.5	312.5	325.0	350.0	375.0	387.5	412.5	425.0	450.0	475.0	487.5

### M4GA3

- Serial transmission (T6□)  
DIN rail mounting (D);  
External pilot (K)



A arrow view



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	172.4	192.9	213.4	233.9	254.4	274.9	295.4	315.9	336.4	356.9	377.4	397.9	418.4	438.9	459.4
L <sub>2</sub>	212.5	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0	437.5	462.5	487.5	500.0
L <sub>3</sub>	200.0	225.0	250.0	262.5	287.5	312.5	325.0	350.0	375.0	387.5	412.5	425.0	450.0	475.0	487.5

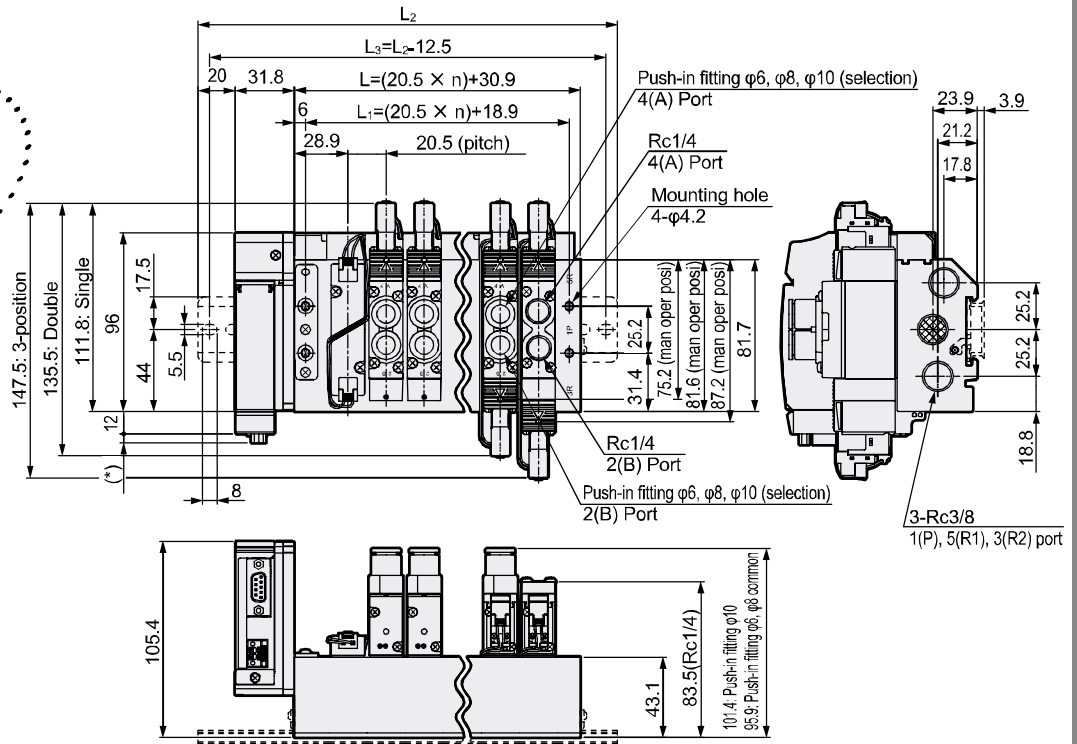
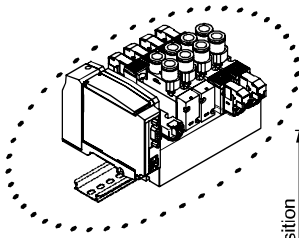
# M4GA3-T8\* Series

Reduced wiring manifold; body piping; serial transmission

## Dimensions

### M4GA3

- Serial transmission (T8□)  
DIN rail mounting (D)

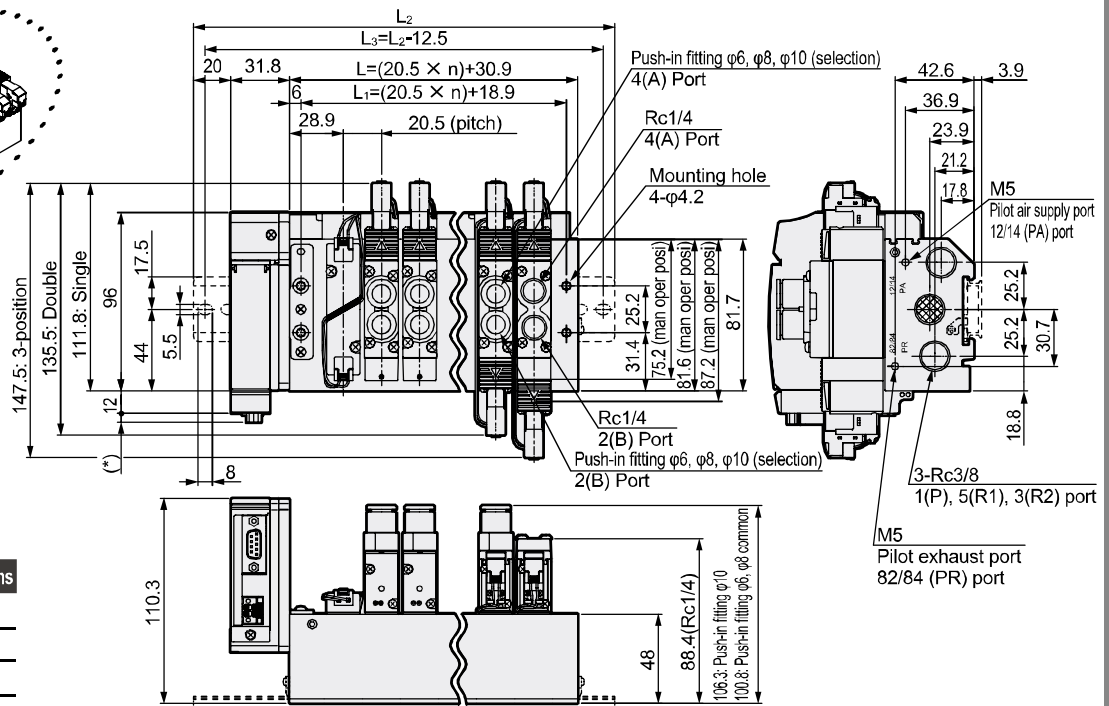
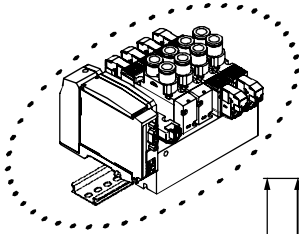


Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L <sub>1</sub>	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L <sub>2</sub>	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

### M4GA3

- Serial transmission (T8□)  
DIN rail mounting (D); external pilot (K)



Serial transmission	(*) Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L <sub>1</sub>	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L <sub>2</sub>	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

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

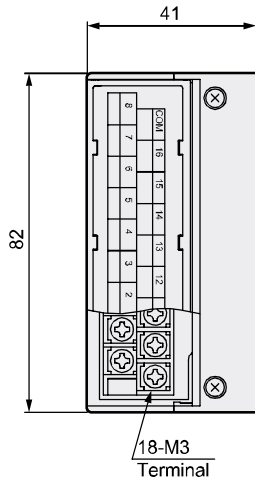
# M4GA-T\* Series

Reduced wiring manifold; body piping

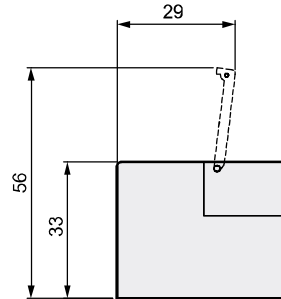
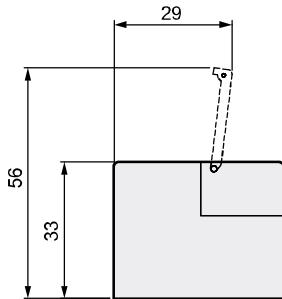
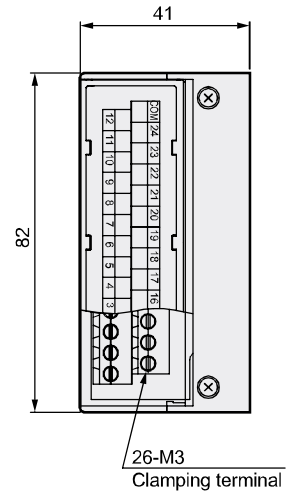
## Wiring block part: Dimensions

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

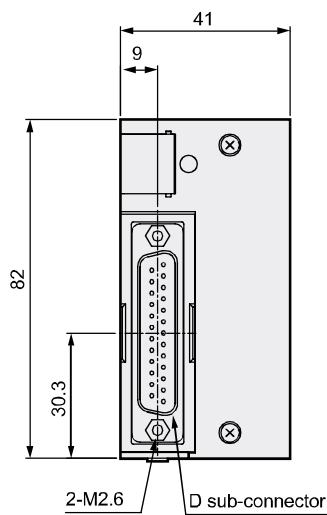
● Common terminal block (M3 thread) T10



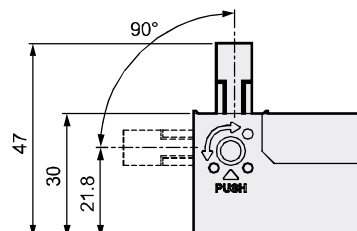
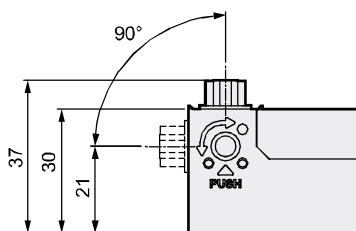
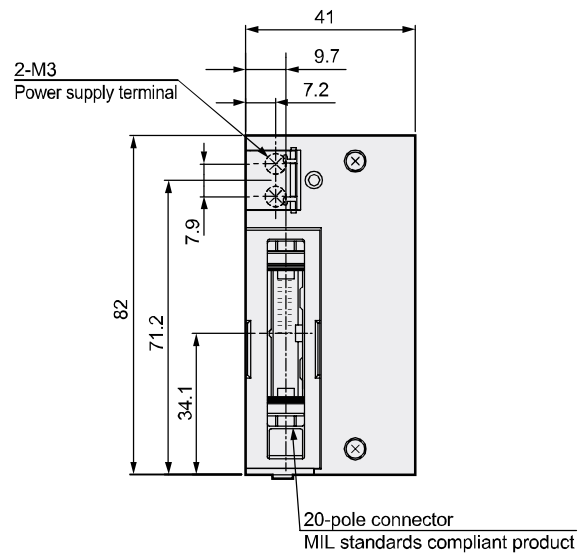
● Common terminal block (clamping) T11



● D sub-connector T30



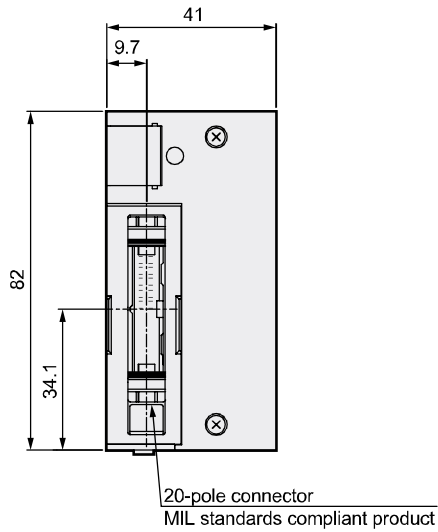
● 20-pin flat cable connector (with power supply terminal) T50



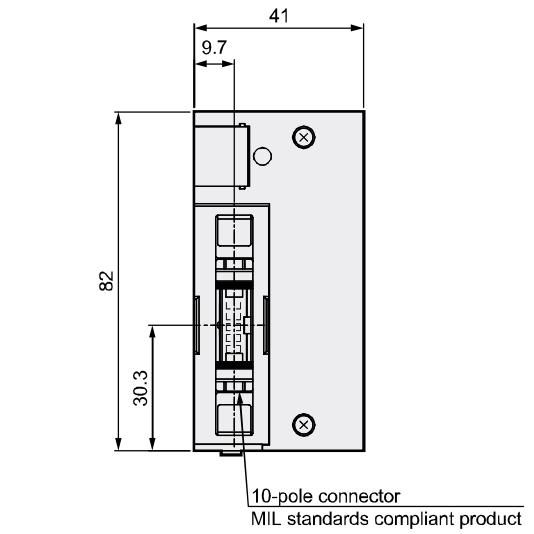


## Wiring block part: Dimensions

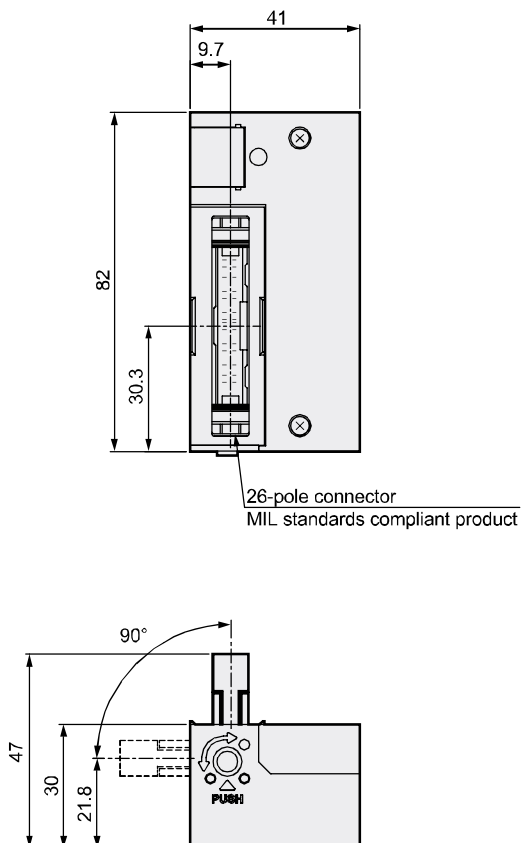
- 20-pin flat cable connector (without power supply terminal)  
T51



- 10-pin flat cable connector (without power supply terminal)  
T52



- 26-pin flat cable connector (without power supply terminal)  
T53



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

# M4GA3-T6D Series

Reduced wiring manifold; body piping; serial transmission

● Discrete serial transmission slave unit model No.

- 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  
(TotalAir)
- TotAirSys  
(Gamma)
- Ending

**4G** R - **OPP3** - **0A**

Ⓐ Wiring method

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

**4G** R - **OPP7** - **2G**

Ⓐ Wiring method

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

# MEMO

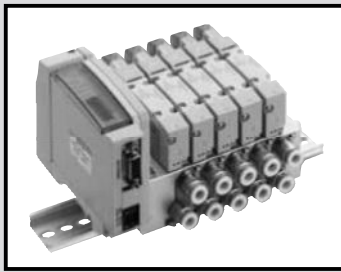
4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
TotAirSys (Total Air)
TotAirSys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

Reduced wiring manifold  
Base piping  
Direct mount/DIN rail mount

# M3GB1/2-T\*(D) Series

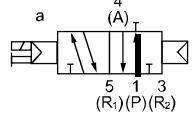
# M4GB1/2/3-T\*(D) Series

• Cylinder bore size: φ20 to φ100

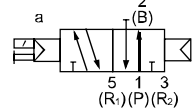


## JIS symbol

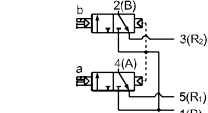
- 3-port valve  
2-position single NC



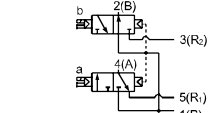
- 2-position single NO



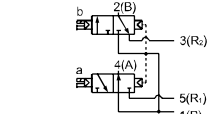
- Two 3-port valves integrated  
(A side valve: NC, B side valve: NC)



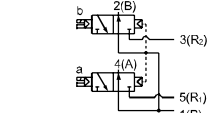
- Two 3-port valves integrated  
(A side valve: NC, B side valve: NO)



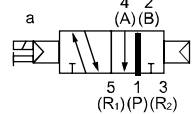
- Two 3-port valves integrated  
(A side valve: NO, B side valve: NC)



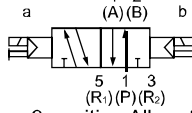
- Two 3-port valves integrated  
(A side valve: NO, B side valve: NO)



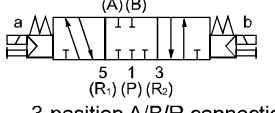
- 5-port valve  
2-position single



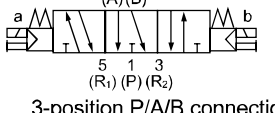
- 2-position double



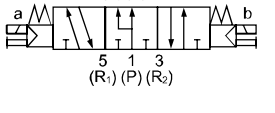
- 3-position All ports closed



- 3-position A/B/R connection



- 3-position P/A/B connection



## Manifold common specifications

Descriptions	Content	
Manifold	Reduced wiring integrated base	
Mounting method	Direct mount/DIN rail mount	
Supply and exhaust method	Common supply/common exhaust (With internal exhaust check valve)	
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (Pilot exhaust check valve built-in)
	External pilot	Main valve/pilot valve individual exhaust
Piping direction	Lateral direction from base	
Valve and operation	Pilot operated soft spool valve	
Working fluid	Compressed air	
Max. working pressure	0.7 (≈100 psi, 7 bar)	
Min. working pressure	0.2 (≈29 psi, 2 bar) (*3)	
Proof pressure	1.05 (≈150 psi, 10.5 bar)	
Ambient temperature	°C -5 (23°F) to 55 (131°F) (no freezing)	
Fluid temperature	°C 5 (41°F) to 55 (131°F)	
Manual override	Non-locking/locking common (standard)	
Lubrication (*1)	Not required	
Degree of protection (*2)	Dust-proof	
Vibration resistance	m/s <sup>2</sup> 50 or less	
Shock resistance	m/s <sup>2</sup> 300 or less	
Atmosphere	Cannot be used in corrosive gas environments	

## Electrical specifications

Descriptions	Content		
Rated voltage V	T1□, T30□, T5□	T6□, T8□	
	DC24	DC12	DC24
V fluctuation range (*4)	±10%	+10%, -5%	
Holding current A	Standard	0.017	0.034
	With low exoergic/energy saving circuit	0.005	0.010
Power (W)	Standard	0.4	
	With low exoergic/energy saving circuit	0.1	
Thermal class	B		
Surge suppressor (*5)	Zener diode		
Indicator	LED		

\*1 Use turbine oil Class 1 ISO VG32 for lubrication. Excessive or intermittent lubrication results in unstable operation.  
\*2 Avoid dripping water or oil, etc., during use.  
\*3 The working pressure range is 0 to 0.7 MPa when the external pilot (option code: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.  
\*4 T6□ and T8□ (serial transmission) may experience voltage drops due to internal circuitry, so care should be taken when regulating voltages.  
\*5 If low exoergic/energy saving circuit or surgeless types are selected then there will be a diode.

## Common specifications

Descriptions	M3GB1/M4GB1	M3GB2/M4GB2	M3GB3/M4GB3
Port size	A/B Port	Barbed fitting φ1.8 Push-in fitting φ1.8, φ4, φ6, φ8 (*6) M5	Push-in fitting φ4, φ6, φ8, φ10 (*6) Rc1/8
	P/R1/R2 port	Rc1/8	Rc1/4

\*6 Available as custom order.

## T1□, T30□, T5□

Descriptions	M3GB1/M4GB1		M3GB2/M4GB2		M3GB3/M4GB3	
	Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount
Max. station No.	Standard (Internal pilot)	20 stations	16 stations	20 stations	16 stations	16 stations
	External pilot	12 stations				
Manifold base weight calculation formula (n: station No.)	Standard	43n+335	45n+348	80n+398	82n+431	124n+548
	External pilot	44n+330	46n+344	88n+433	90n+467	129n+577

## T6□

Descriptions	M3GB1/M4GB1		M3GB2/M4GB2		M3GB3/M4GB3	
	DIN rail mount		DIN rail mount		DIN rail mount	
Max. station No.	Standard (Internal pilot)	16 stations	16 stations	16 stations	16 stations	16 stations
	External pilot	12 stations				
Manifold base weight calculation formula (n: station No.)	Standard	45n+495	82n+578	126n+729	126n+729	126n+729
	External pilot	46n+491	90n+615	131n+753	131n+753	131n+753

## T8□

Descriptions	M3GB1/M4GB1		M3GB2/M4GB2		M3GB3/M4GB3	
	Direct mount	DIN rail mount	Direct mount	DIN rail mount	Direct mount	DIN rail mount
Max. station No.	Standard (Internal pilot)	20 stations	16 stations	20 stations	16 stations	16 stations
	External pilot	12 stations				
Manifold base weight calculation formula (n: station No.)	Standard	46n+305	49n+332	83n+318	86n+350	128n+384
	External pilot	48n+312	51n+339	91n+336	94n+368	146n+417

The manifold base weight is the value for screw connection specifications with DIN rail, wiring block or slave unit. The max. station number of the manifold is limited by the max. number of solenoid for each of the following wiring specifications.

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  
(TotalAir)

TotAirSys  
(Gamma)

Ending

# M<sub>4</sub>GB1/2/3-T\*(D) Series

Reduced wiring manifold; base piping

## Flow characteristics

Model No.	Solenoid position	P→A/B		A/B→R1/R2		
		C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
M3GB1 M4GB1	Two 3-port valves integrated	0.86	0.35	1.1 (0.67)	0.22 (0.23)	
	2-position	1.1	0.22	1.2 (0.70)	0.20 (0.10)	
	3-position	All ports closed ABR connection PAB connection	0.98 0.97 1.1	0.22 0.35 0.38	1.1 - 1.3 (0.68) 1.1 -	0.24 - 0.22 (0.24) 0.21 -
M3GB2 M4GB2	Two 3-port valves integrated	1.7	0.44	2.1 (1.6)	0.32 (0.30)	
	2-position	2.4	0.34	2.7 (1.7)	0.24 (0.31)	
	3-position	All ports closed ABR connection PAB connection	2.2 2.2 2.4	0.34 0.34 0.29	2.4 - 2.8 (1.8) 2.4 -	0.29 - 0.24 (0.27) 0.29 -
M4GB3	2-position	3.5	0.34	3.8 (2.6)	0.11 (0.27)	
	3-position	All ports closed ABR connection PAB connection	3.1 3.0 3.6	0.33 0.30 0.36	3.3 - 3.8 (2.7) 3.3 -	0.22 - 0.11 (0.22) 0.28 -

\*1: Effective cross-sectional area S and sonic conductance C are converted as  $S = 5.0 \times C$ . \*2: Values in ( ) are with the exhaust check valve.

## Wiring specifications

Descriptions	T10□ Common term. block	T11□ Common term. block	T30□ D sub-connector	T50□ Flat cable 20-pin	T51□ Flat cable 20-pin	T52□ Flat cable 10-pin	T53□ Flat cable 26-pin																																					
Connector and terminal block specifications	M3 thread fastening 18 terminals	Clamping 26 terminals	D sub-connector 25-pin	MIL-C-83503 standard compliant pressure welding socket 20-pin	MIL-C-83503 standard compliant pressure welding socket 20-pin	MIL-C-83503 standard compliant pressure welding socket 10-pin	MIL-C-83503 standard compliant pressure welding socket 26-pin																																					
Max. number of solenoids	16 points	24 points	24 points	16 points	18 points	8 points	24 points																																					
Manifold internal wiring	Details on pages 718 to 725																																											
Wiring block position Blank: Left side R: Right side																																												
Array method Blank: Standard sequential W: Double wiring	<p>(Example) For T50□</p> <p>Manifold specifications</p>				<p>Standard wiring (sequential): Blank</p> <table border="1"> <tr> <td>Connector pin No.</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td> </tr> <tr> <td>Valve solenoid No.</td> <td>1a</td><td>2a</td><td>2b</td><td>3a</td><td>4a</td><td>4b</td> </tr> </table>				Connector pin No.	1	2	3	4	5	6	Valve solenoid No.	1a	2a	2b	3a	4a	4b	<p>Double wiring: W</p> <table border="1"> <tr> <td>Connector pin No.</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> <tr> <td>Valve solenoid No.</td> <td>1a</td><td>Air</td><td>2a</td><td>2b</td><td>3a</td><td>Air</td><td>4a</td><td>4b</td> </tr> </table>				Connector pin No.	1	2	3	4	5	6	7	8	Valve solenoid No.	1a	Air	2a	2b	3a	Air	4a	4b
Connector pin No.	1	2	3	4	5	6																																						
Valve solenoid No.	1a	2a	2b	3a	4a	4b																																						
Connector pin No.	1	2	3	4	5	6	7	8																																				
Valve solenoid No.	1a	Air	2a	2b	3a	Air	4a	4b																																				

## Serial transmission slave unit specifications

Descriptions	T6G1 <sup>*1</sup>	T6C0 <sup>*2</sup> T6C1	T6A0 <sup>*3</sup> T6A1	T6E0 T6E1	T6J0 <sup>*3</sup> T6J1
Network name	CC-Link	CompoBus/S	UNIWIRE System	S-LINK	UNIWIRE H system
Power supply voltage	Unit side Valve side	24 VDC ±10%		24 VDC +10% -5%	
Current consumption	Unit side Valve side	100 mA or less (when all output points are ON) 15 mA or less (when all output points are OFF)		100 mA or less (when all output points are ON) Load current is not included	
Output points	16 points	T6□0: 8 points T6□1: 16 points			
Occupied number	1 station	T6C0: 1 node address (in 8-point mode) T6C1: 2 node address (8-point mode)	T6A0: Output 8 points T6A1: Output 16 points	T6E0:FAN-in:3 T6E1:FAN-in:3	T6J0: Output 8 points T6J1: Output 16 points
Operation display	LED (power supply and communication status)				

\*1: CC-Link is ver. 1.10. \*2: Long-distance communication mode is not supported. Contact CKD for details on support.

\*3: Transmission point count of 128 points and transmission distance of 200 m are supported. Contact CKD for other specifications.

## Serial transmission slave unit specifications

Descriptions	T8G1	T8GP1	T8P1	T8PP1	T8EC1	T8ECP1	T8EN1	T8ENP1
	T8G2	T8GP2	T8P2	T8PP2	T8EC2	T8ECP2	T8EN2	T8ENP2
Communication system name	CC-Link ver1.10		PROFIBUS-DP(V0)		EtherCAT		EtherNet/IP	
Power supply voltage	Unit side Valve side	24 VDC ±10%						
Current consumption	Unit side Valve side	60 mA or less (when all output points are ON)		60 mA or less (when all output points are ON)		110 mA or less (when all output points are ON)		120 mA or less (when all output points are ON)
Output points	T8□1: 15 m or less T8□2: 20 m or less (when all output points are ON) Load current is not included							
Occupied number	T8□1: 16 points T8□2: 32 points							
Operation display	1 station LED (power supply and communication status)							
Output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output

# M4GB1/2/3-T\*(D) Series

Reduced wiring manifold; base 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
Slencer
TotAirSys (TotalAir)
TotAirSys (Gamma)
Ending

## How to order

Manifold model No.

**M** **4GB1** **1** **0R** - **C6** - **T30** **W** **H** **D** - **3**

3 port manifold model No.

**M** **3GB1** **66** **0R** - **C6** - **T30** **W** **H** **D** - **3**

● Single valve for mounting base

**4GB1** **1** **9R** - **00** - **A2N** **H** - **3**

● 3-port discrete valve for mounting base

**3GB1** **66** **9R** - **00** - **A2N** **H** - **3**

**B** Solenoid position

**A** Model No.

**C** Port size  
\*3  
\*4

**D** Reduced wiring connection

**E** Terminal/connector pin array

- Refer to page 721 for the model No. of cables with D sub-connector.
- Refer to page 717 for the model No. of cables for flat cable connector.

## Precautions for model No. selection

- \*1 Select M4GB\*80R when mixing with 3/5-port valves. Further, select M3GB\*80R when mixing with masking plate.
- \*2 Not compatible with combination with external pilot (K). Dimensions are the same as those of the respective 2-position double solenoid.
- \*3 CL\* radial push-in fitting (upward) is compatible only with the single solenoid manifold. Long elbow is for A port and short elbow for B port.
- \*4 A and B ports are the same size for radial push-in fitting.
- \*5 4G1 C8 and 4G2 C10 are available as custom orders. In addition, these do not support push-in fitting mixing.
- \*6 Blank...The wiring will be based on the type of valve used.  
W\*...All wired for double solenoid valves regardless of the type of valve used.
- \*7 Spare wiring (A type socket assembly) is included on the cap side for single types. A holder for retaining the socket assembly is included for single unit valves (A2N). Refer to page 194 for details.
- \*8 3-position all ports closed and PAB connection are not provided with the exhaust check valve specifications (H). Refer to page 751 for details on the exhaust check valve.
- \*9 Contact CKD when using a vacuum with the external pilot (K).
- \*10 E2\* type and E2\*J type connectors only support DC 12/24 V. In addition, surgeless "S" and low exoergic/energy-saving circuit "E" cannot be selected together.
- \*11 Surgeless specifications.
- \*12 A filter is built into the P-port as standard.
- \*13 Specify the spacer mounting position/quantity in manifold specifications sheet. Stacking of spacers is not possible. Combination with the masking plate is not supported. Refer to pages 186 to 190 for details.
- \*14 Not compatible with combination with external pilot (K).
- \*15 Combination with radial push-in fittings (upward) is not supported.

**F** Option

**G** Mount

**H** Station No.

**I** Voltage

A Model No.				
3GB1	3GB2	4GB1	4GB2	4GB3

B Solenoid position		3GB1	3GB2	4GB1	4GB2	4GB3
1	2-position single			●	●	●
2	2-position double			●	●	●
3	3-position all ports closed			●	●	●
4	3-position ABR connection			●	●	●
5	3-position PAB connection			●	●	●
66	Two 3-port valves integrated	A side valve: Normally closed	●	●		
		B side valve: Normally closed				
67	*1, *2	A side valve: Normally closed	●	●		
		B side valve: Normally open				
76		A side valve: Normally open	●	●		
		B side valve: Normally closed				
77		A side valve: Normally open	●	●		
		B side valve: Normally open				
8	Mix manifold (when there are multiple solenoid positions)	●	●	●	●	●

C Port size		4(A), 2(B) port	P/R1/R2 port (2)=Rc1/8 (3)=Rc1/4 (4)=Rc3/8			
CF	φ1.8 barbed fitting (compatible tube UP-9102-**) (2)	(2)				
C18	φ1.8 push-in fitting (compatible tube UP-9402-**) (2)	(2)				
C4	φ4 push-in fitting (2)	(3)	(2)	(3)		
C6	φ6 push-in fitting (2)	(3)	(2)	(3)	(4)	
C8	φ8 push-in fitting *5 (2)	(3)	(2)	(3)	(4)	
C10	φ10 push-in fitting *5 (3)			(3)	(4)	
CL18	Radial φ1.8 push-in fitting upward (compatible tube UP-9402-**) (2)			(2)		
CL4	Radial φ4 push-in fitting (upward) (2)			(2)		
CL6	Radial φ6 push-in fitting (upward) (2)			(3)		
CL8	Radial φ8 push-in fitting (upward) (3)			(3)	(4)	
CL10	Radial φ10 push-in fitting (upward) (4)				(4)	
CD18	Radial φ1.8 push-in fitting downward (compatible tube UP-9402-**) (2)			(2)		
CD4	Radial φ4 push-in fitting (downward) (2)			(2)		
CD6	Radial φ6 push-in fitting (downward) (2)			(3)	(3)	
CD8	Radial φ8 push-in fitting (downward) (3)			(3)	(4)	
CD10	Radial φ10 push-in fitting (downward) (4)				(4)	
CX	Push-in fitting mix (2)	(3)	(2)	(3)	(4)	
M5	M5 (2)			(2)		
06	Rc1/8 (3)			(3)		
08	Rc1/4 (4)				(4)	
00	Discrete valve for mounting base	●	●	●	●	

D Reduced wiring connection	
Refer to the next page for electrical connections.	

E Terminal/connector pin array							
Blank	Standard wiring *6	●	●	●	●	●	●
W	Double wiring *6	●	●	●	●	●	●
W1	Double wiring (with single spare wiring) *6, *7	●	●	●	●	●	●

F Option							
Blank	Non-locking/locking common manual override	●	●	●	●	●	●
M	Non-locking manual override	●	●	●	●	●	●
H	With exhaust check valve *8	●	●	●	●	●	●
K	External pilot *9	●	●	●	●	●	●
A	Ozone/coolant proof	●	●	●	●	●	●
S	Surgeless *10	●	●	●	●	●	●
E	Low exoergic/energy saving circuit *10, *11	●	●	●	●	●	●
F	A/B port filter built in *12	●	●	●	●	●	●
Z1	Air supply spacer *13	●	●	●	●	●	●
Z2	In-stop valve spacer *13, *14	●	●	●	●	●	●
Z3	Exhaust spacer *13	●	●	●	●	●	●
Z6	Spacer pilot check valve *13, *15	●	●	●	●	●	●

G Mount							
Blank	Direct mount	●	●	●	●	●	●
D	DIN rail mount	●	●	●	●	●	●

H Station No.							
2	2 stations	●	●	●	●	●	●
to	to	●	●	●	●	●	●
20	Refer to page 158 for the max. station number per model.	●	●	●	●	●	●

I Voltage							
3	24 VDC	●	●	●	●	●	●
4	12 VDC	●	●	●	●	●	●

is not available.

# M4GB1/2/3-T\*(D) Series

Reduced wiring manifold; base piping

			▲ Model No.				
			3GB1	3GB2	4GB1	4GB2	4GB3
<b>○ Reduced wiring (lamp and surge suppressor provided as standard) 12/24 VDC</b>							
<b>T10</b>	Common terminal block	Left-sided specifications	●	●	●	●	●
<b>T10R</b>	(M3 thread)	Right-sided specifications	●	●	●	●	●
<b>T11</b>	Common terminal block	Left-sided specifications	●	●	●	●	●
<b>T11R</b>	(clamping)	Right-sided specifications	●	●	●	●	●
<b>T30</b>	D sub-connector	Left-sided specifications	●	●	●	●	●
<b>T30R</b>		Right-sided specifications	●	●	●	●	●
<b>T50</b>	20-pin flat cable connector (with power supply terminal)	Left-sided specifications	●	●	●	●	●
<b>T50R</b>		Right-sided specifications	●	●	●	●	●
<b>T51</b>	20-pin flat cable connector (without power supply terminal)	Left-sided specifications	●	●	●	●	●
<b>T51R</b>		Right-sided specifications	●	●	●	●	●
<b>T52</b>	10-pin flat cable connector (without power supply terminal)	Left-sided specifications	●	●	●	●	●
<b>T52R</b>		Right-sided specifications	●	●	●	●	●
<b>T53</b>	26-pin flat cable connector (without power supply terminal)	Left-sided specifications	●	●	●	●	●
<b>T53R</b>		Right-sided specifications	●	●	●	●	●
<b>○ Serial transmission (lamp/surge suppressor provided as standard) 24 VDC</b>							
<b>T6A0</b>	UNIWIRESYSTEM	NPN 8 points	●	●	●	●	●
<b>T6A1</b>		NPN 16 points	●	●	●	●	●
<b>T6C0</b>	CompoBus/S	NPN 8 points	●	●	●	●	●
<b>T6C1</b>		NPN 16 points	●	●	●	●	●
<b>T6E0</b>	S-LINK	NPN 8 points	●	●	●	●	●
<b>T6E1</b>		NPN 16 points	●	●	●	●	●
<b>T6G1</b>	CC-Link	NPN 16 points	●	●	●	●	●
<b>T6J0</b>	UNIWIRESYSTEM H	NPN 8 points	●	●	●	●	●
<b>T6J1</b>		NPN 16 points	●	●	●	●	●
<b>T8G1</b>	CC-Link	NPN 16 points	●	●	●	●	●
<b>T8G2</b>		NPN 32 points	●	●	●	●	●
<b>T8GP1</b>	(thin)	PNP 16 points	●	●	●	●	●
<b>T8GP2</b>		PNP 32 points	●	●	●	●	●
<b>T8P1</b>	PROFIBUS-DP	NPN 16 points	●	●	●	●	●
<b>T8P2</b>		NPN 32 points	●	●	●	●	●
<b>T8PP1</b>	(thin)	PNP 16 points	●	●	●	●	●
<b>T8PP2</b>		PNP 32 points	●	●	●	●	●
<b>T8EC1</b>	EtherCAT	NPN 16 points	●	●	●	●	●
<b>T8EC2</b>		NPN 32 points	●	●	●	●	●
<b>T8ECP1</b>	(thin)	PNP 16 points	●	●	●	●	●
<b>T8ECP2</b>		PNP 32 points	●	●	●	●	●
<b>T8EN1</b>	EtherNet/IP	NPN 16 points	●	●	●	●	●
<b>T8EN2</b>		NPN 32 points	●	●	●	●	●
<b>T8ENP1</b>	(thin)	PNP 16 points	●	●	●	●	●
<b>T8ENP2</b>		PNP 32 points	●	●	●	●	●
<b>A2N</b>	Without lead wire (without socket)	with surge suppressor/indicator lamp	●	●	●	●	●

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

Ozone-proof specifications - Coolant proof specifications

Can be selected with "How to order" Item (F) option "A" on page 160.

Clean-room specifications

- Anti-dust generation structure for use in cleanrooms

\*\* - Voltage - **P7\***

Specifications for rechargeable battery

(Catalog No. CC-1226A)

- For use in the rechargeable battery manufacturing process, materials used for air path and sliding section are limited

\*\* - Voltage - **P4**

CE marking specifications

\*\* - Voltage - **ST**

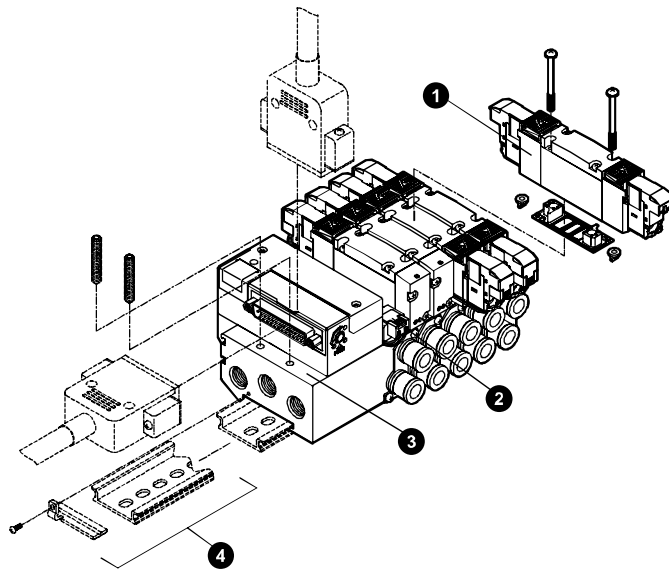
# M4GB1/2/3-T\*(D) Series

Reduced wiring manifold; base piping

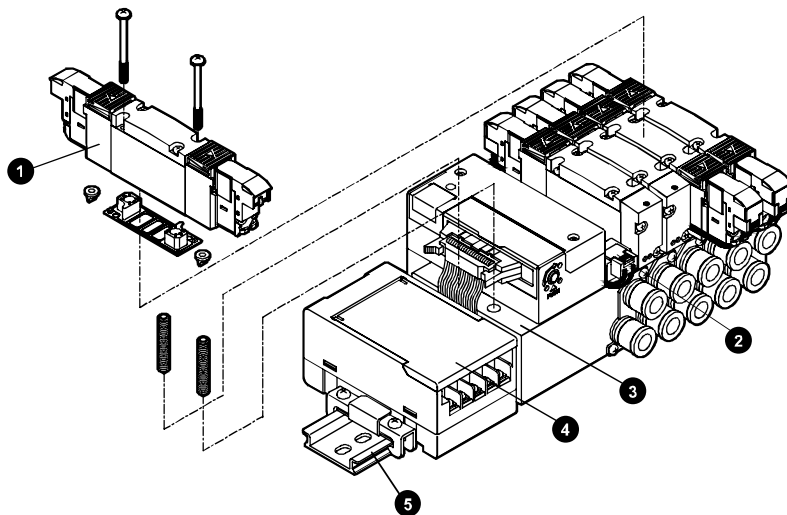
## Manifold components explanation and parts list

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

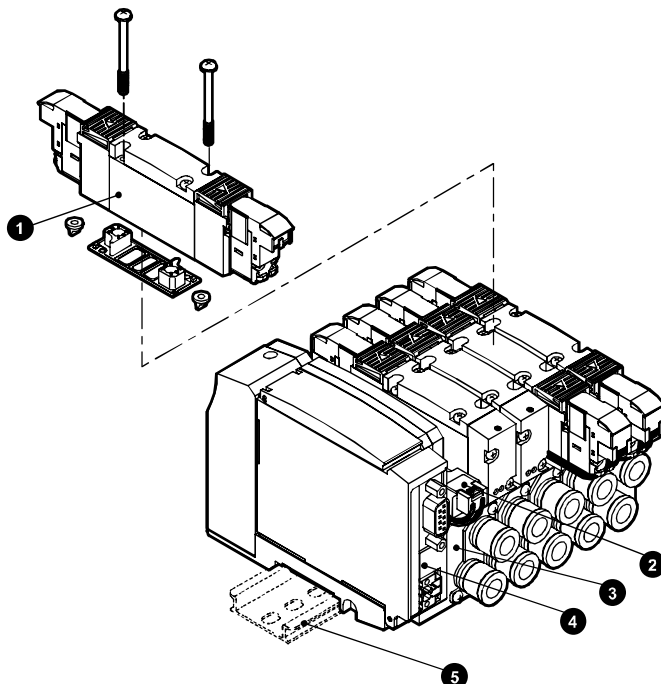
### ●T30



### ●T6D



### ●T8\*



\* Mount (direct, DIN rail) cannot be changed after purchase of the M4GB2-T8 and M4GB3-T8 Series. M4GB1-T8 Series allows changes.



# M4GB1/2/3-T\*(D) Series

Reduced wiring manifold; base piping

## Main parts list

No.	Component name	Model No.	Content	Remarks
1	Discrete valve for mounting base	$3$ GB $\square$ $\square$ 9R-00-A2N $\square$ option $\square$ voltage $4$ $\square$ 	Single valve Gasket Mounting screws 2 PR check valve 2	Details on page 160
2	Masking plate	3G1/4G1	4G1R-MP	Masking plate
		3G2/4G2	4G2R-MP	Gasket
		3G2/4G3	4G3R-MP	Mounting screws 2
3	Manifold base assembly	M4GB $\square$ R $\square$ Port size $\square$ T56 $\square$ option $\square$ station No. $\square$ 	Manifold base Wiring block	
4	Serial transmission slave unit	4GR-OPP3- $\square$ Wiring method $\square$	Serial transmission slave unit	Details on page 184
		4GR-OPP7- $\square$ Wiring method $\square$		
5	DIN rail kit			Details on page 197

## Parts list

No.	Part name	Model No.	No.	Part name	Model No.	
-	Coil assembly	4GR-A2N- $\square$ -COIL- $\square$ Voltage $\square$ Blank: Standard A: Ozone/coolant proof S: Surgeless E: Low exoergic/energy saving circuit	-	Cartridge push-in fitting and related parts	$\phi$ 1.8 barbed	4G1R-JOINT-CF
-	A type connector Socket assembly Details on page 737	4GR $\square$ -SOCKET-ASSY-A $\square$ $\square$ - Row No. $\square$ Series flow rate size $\square$ Blank: Left side, R: Right side A: aSOL side, B: bSOL side n: Specify position of valve to be connected			$\phi$ 1.8 axial	4G1R-JOINT-C18
					$\phi$ 4 straight	4G1R-JOINT-C4
					$\phi$ 6 straight	4G1R-JOINT-C6
					$\phi$ 8 straight	4G1R-JOINT-C8
					$\phi$ 1.8 elbow	4G1R-JOINT-CL18, CLL18
					$\phi$ 4 elbow	4G1R-JOINT-CL4, CLL4
					$\phi$ 6 elbow	4G1R-JOINT-CL6, CLL6
					Plug cartridge	4G1R-JOINT-CPG
					$\phi$ 4 straight	4G2R-JOINT-C4
					$\phi$ 6 straight	4G2R-JOINT-C6
					$\phi$ 8 straight	4G2R-JOINT-C8
					$\phi$ 10 straight *1	4G2R-JOINT-C10
					$\phi$ 6 elbow	4G2R-JOINT-CL6, CLL6
					$\phi$ 8 elbow	4G2R-JOINT-CL8, CLL8
					Plug cartridge	4G2R-JOINT-CPG
					$\phi$ 6 straight	4G3R-JOINT-C6
					$\phi$ 8 straight	4G3R-JOINT-C8
					$\phi$ 10 straight	4G3R-JOINT-C10
					$\phi$ 8 elbow	4G3R-JOINT-CL8, CLL8
			$\phi$ 10 elbow	4G3R-JOINT-CL10, CLL10		

\*1: Common product with the 4G3  $\phi$ 10 straight.

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  
HNV  
HSV  
2QV  
3QV  
SKH  
PCD  
Silencer  
TotAirSys  
(Total Air)  
TotAirSys  
(Gamma)  
Ending

# M4GB1-T\* Series

Reduced wiring manifold; base piping

## Dimensions

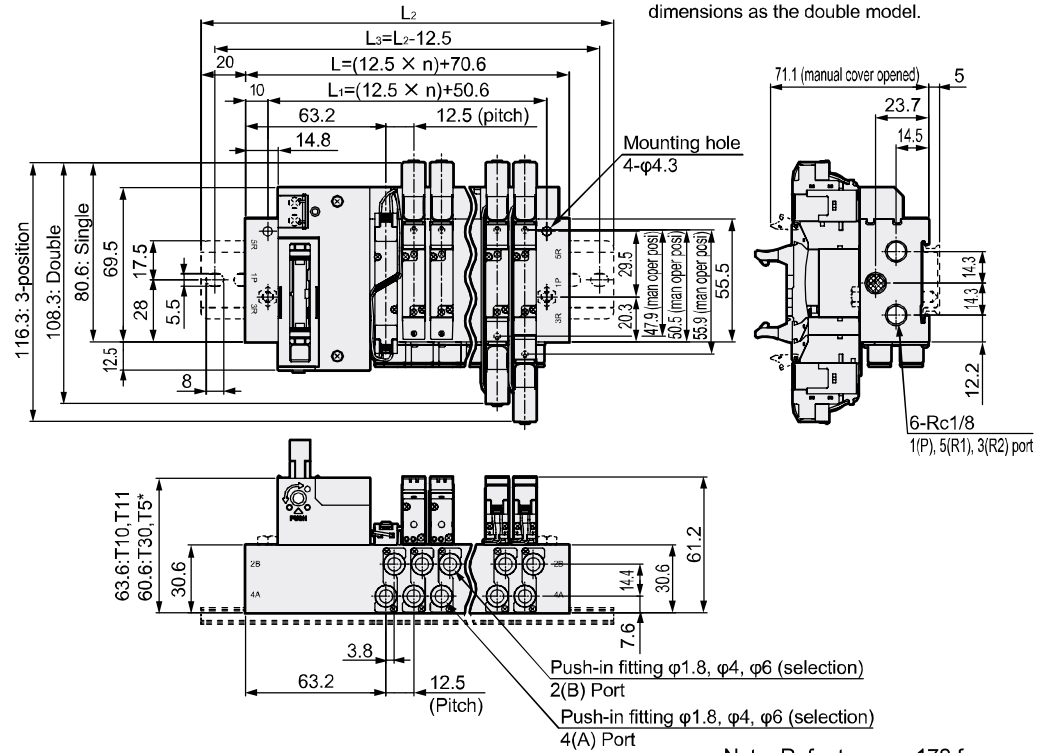
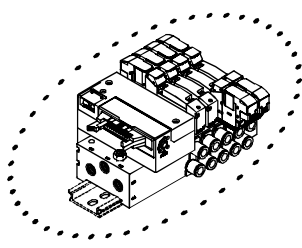
- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E  
MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/  
LMF0
- MN3S0  
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G  
GMF
- PV5  
GMF
- PV5S-0
- 3QR  
3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/  
NVP
- 4F\*0EX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

### M4GB1

● Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)

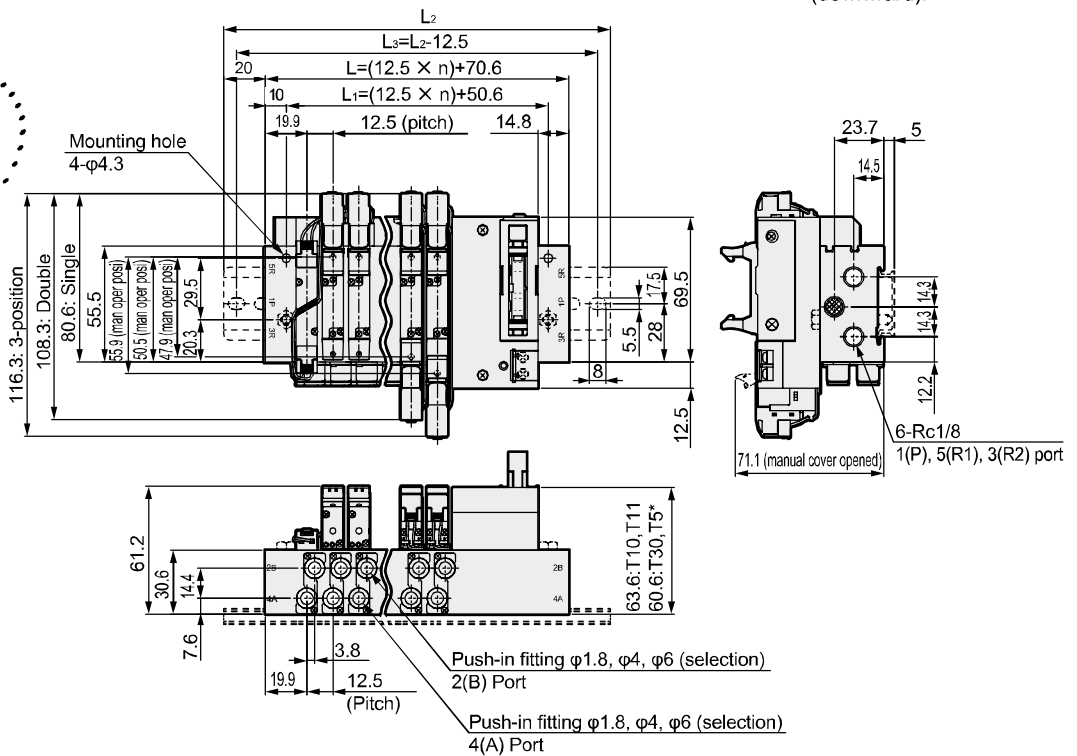
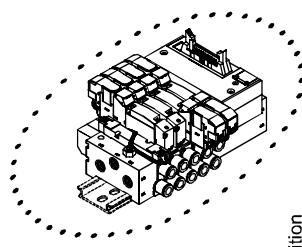
\*1 Figure shows T50. Refer to page 183 for detailed wiring block dimensions.

\*2 The two 3-port valve integrated has the same dimensions as the double model.



● Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)

Note: Refer to page 172 for details on the push-in fitting elbow (upward) (downward).

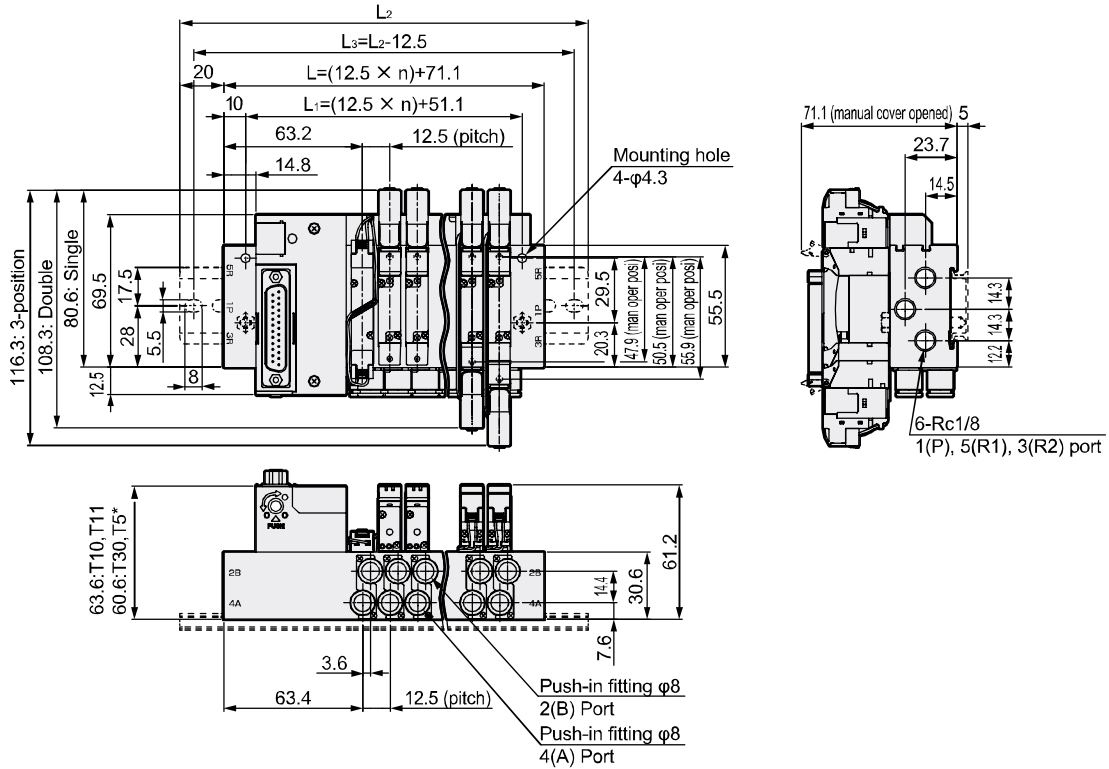


Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	95.6	108.1	120.6	133.1	145.6	158.1	170.6	183.1	195.6	208.1	220.6	233.1	245.6	258.1	270.6	283.1	295.6	308.1	320.6
L1	75.6	88.1	100.6	113.1	125.6	138.1	150.6	163.1	175.6	188.1	200.6	213.1	225.6	238.1	250.6	263.1	275.6	288.1	300.6
L2	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L3	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

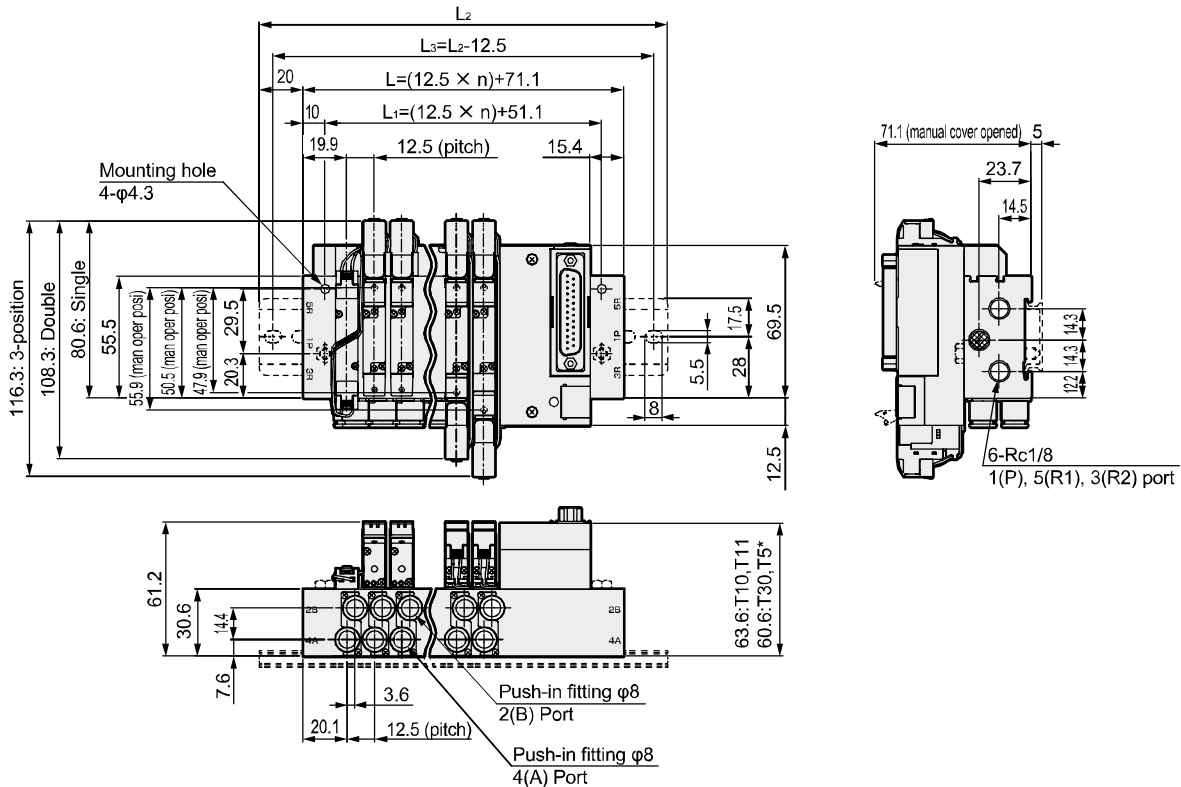
### Dimensions

#### M4GB1-C8

- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)



- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Strn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	96.1	108.6	121.1	133.6	146.1	158.6	171.1	183.6	196.1	208.6	221.1	233.6	246.1	258.6	271.1	283.6	296.1	308.6	321.1
L <sub>1</sub>	76.1	88.6	101.1	113.6	126.1	138.6	151.1	163.6	176.1	188.6	201.1	213.6	226.1	238.6	251.1	263.6	276.1	288.6	301.1
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

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

# M4GB1-T\* Series

Reduced wiring manifold; base piping

## Dimensions



4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

4TB

4L2-4/ LMF0

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G

GMF

PV5

GMF

PV5S-0

3QR

3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/ NVP

4F\*0EX

4F\*0E

HMV

HSV

2QV

3QV

SKH

PCD

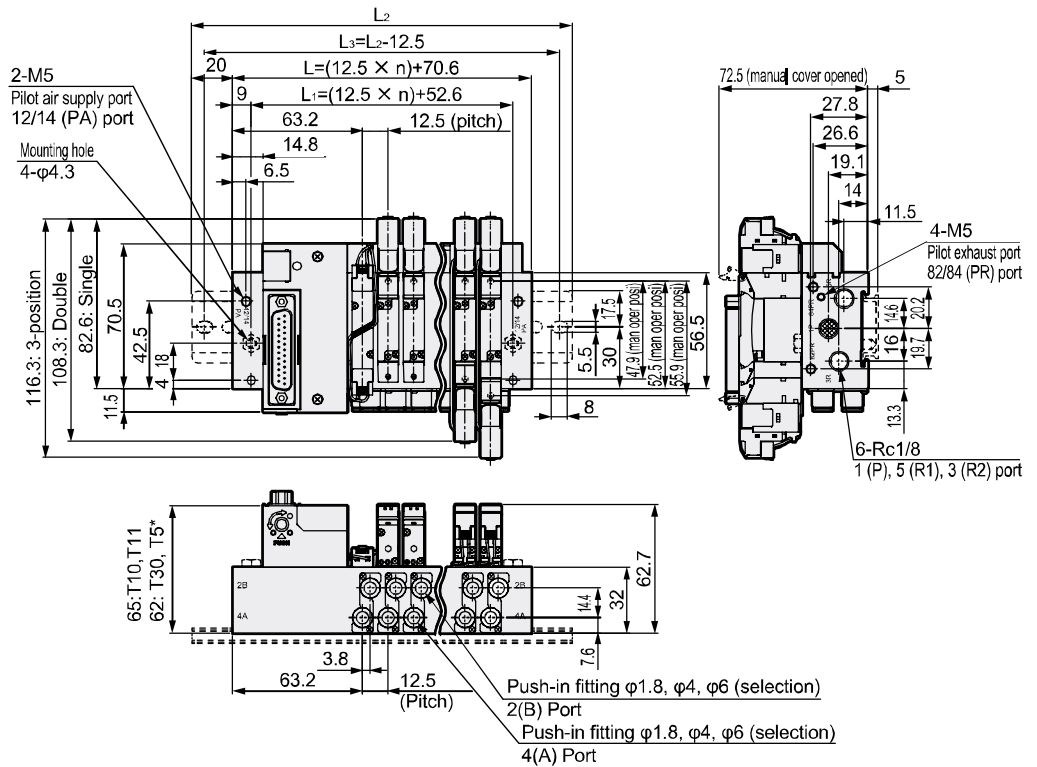
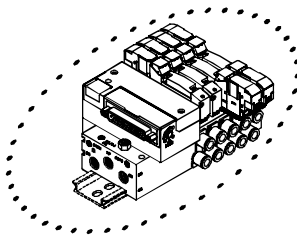
Silencer

Ending

### M4GB1

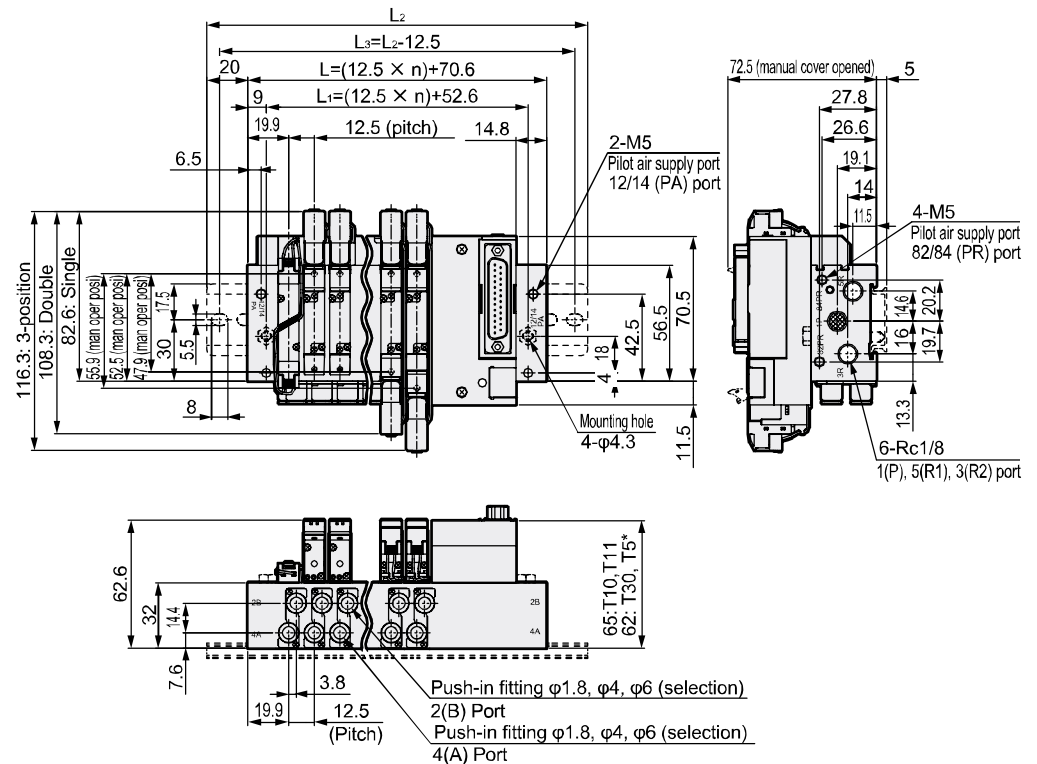
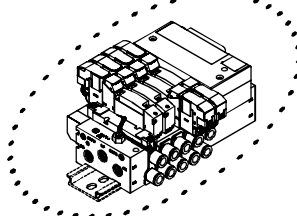
- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53) External pilot (K)

\* Figure shows T30. Refer to page 183 for detailed wiring block dimensions.



Note: Refer to page 172 for details on the push-in fitting elbow (upward) (downward).

- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R) External pilot (K)

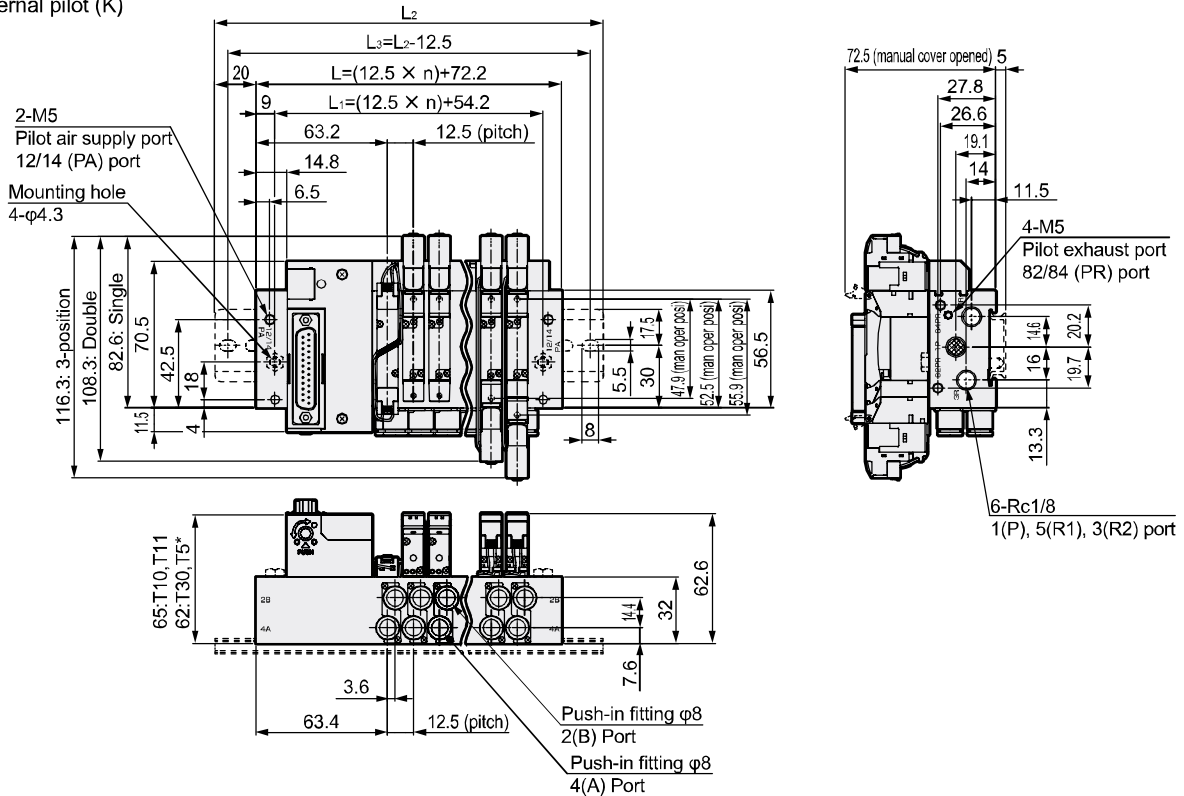


Stn No.	2	3	4	5	6	7	8	9	10	11	12
L	95.6	108.1	120.6	133.1	145.6	158.1	170.6	183.1	195.6	208.1	220.6
L <sub>1</sub>	77.6	90.1	102.6	115.1	127.6	140.1	152.6	165.1	177.6	190.1	202.6
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

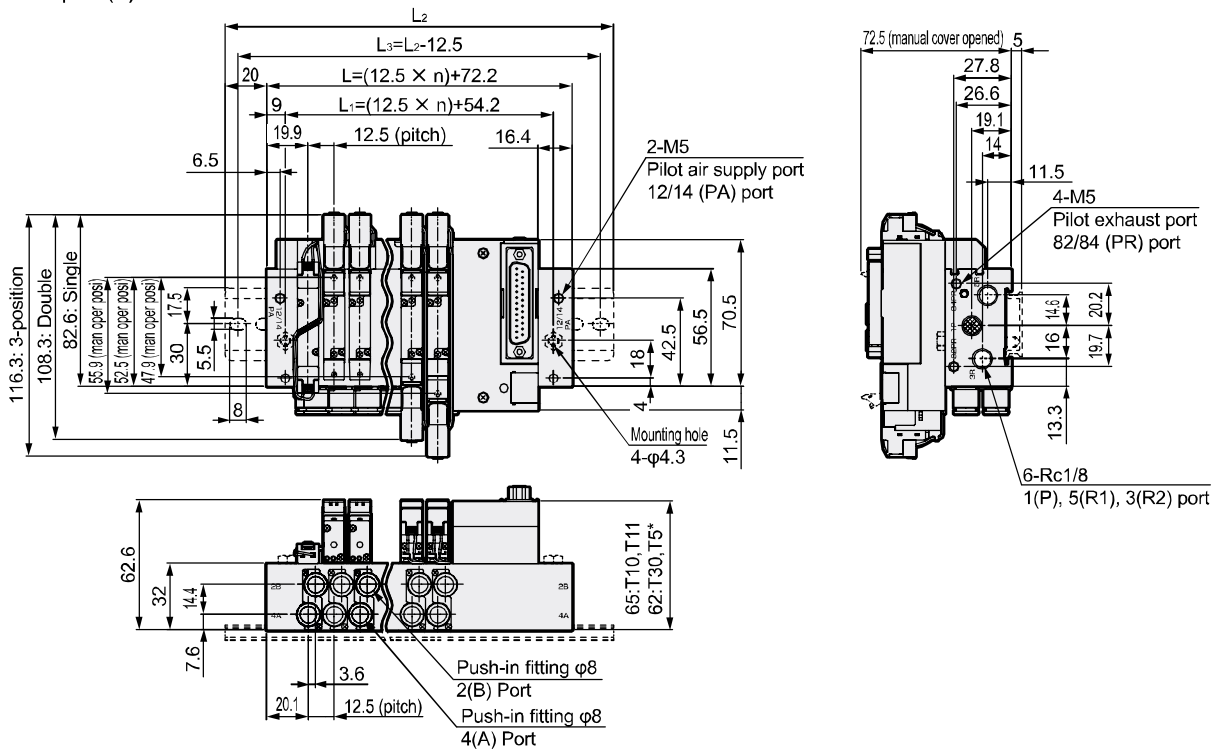
## Dimensions

### M4GB1-C8

- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)



- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



Stn No.	2	3	4	5	6	7	8	9	10	11	12
L	97.2	109.7	122.2	134.7	147.2	159.7	172.2	184.7	197.2	209.7	222.2
L <sub>1</sub>	79.2	91.7	104.2	116.7	129.2	141.7	154.2	166.7	179.2	191.7	204.2
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

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

# M4GB1-T6D Series

Reduced wiring manifold; base piping; serial transmission

## Dimensions

4GA/B

M4GA/B

### M4GB1

- Serial transmission (T6□)  
DIN rail mounting (D)

\* The two 3-port valve integrated has the same dimensions as the double.

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)

- Serial transmission (T6□)  
DIN rail mounting (D); external pilot (K)

Note: Refer to page 172 for details on the push-in fitting elbow (upward) (downward).

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

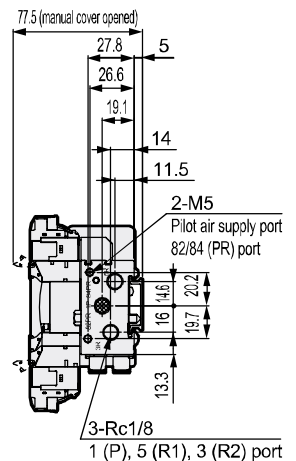
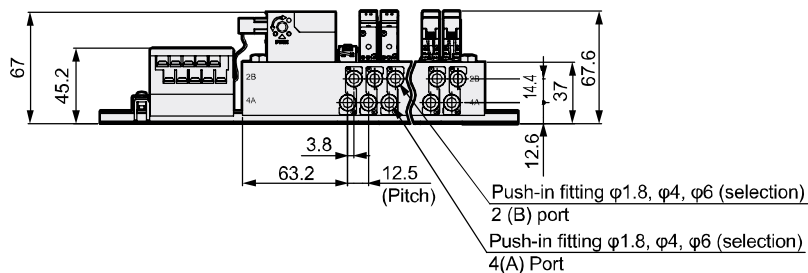
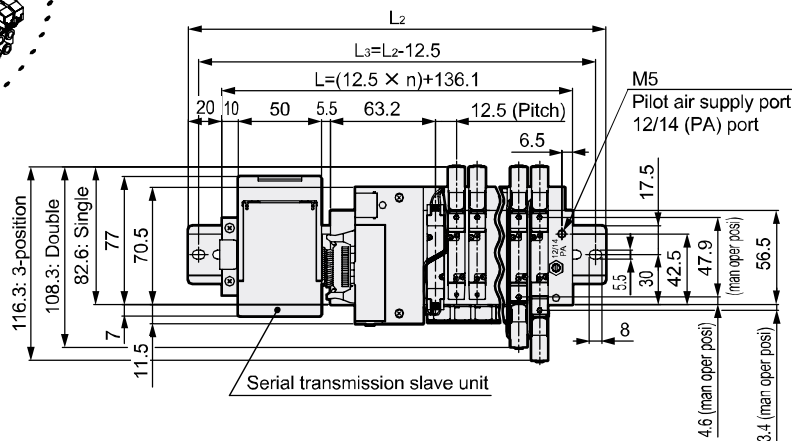
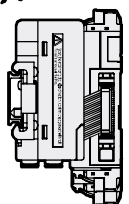
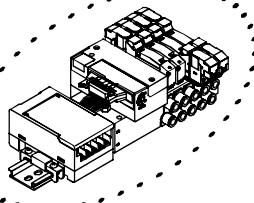
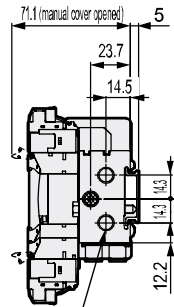
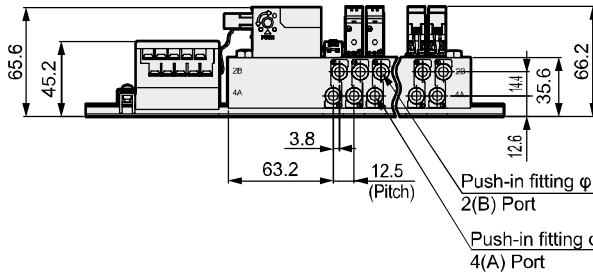
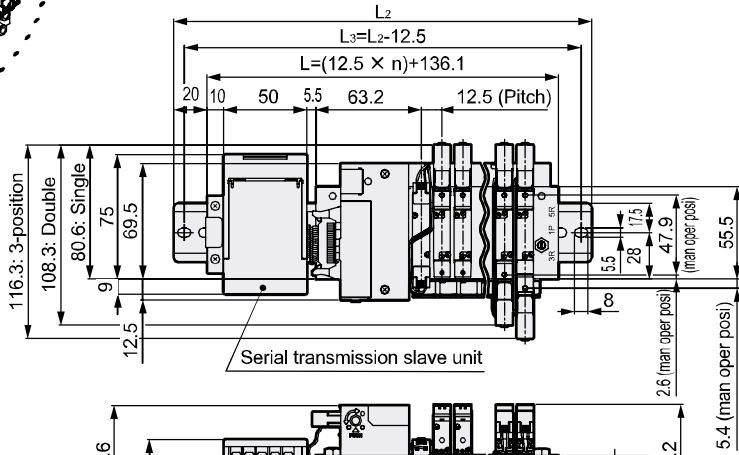
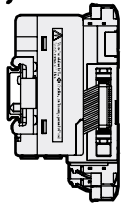
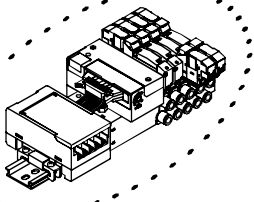
PCD

Silencer

TotAirSys  
(TotalAir)

TotAirSys  
(Gamma)

Ending



Stm No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	161.1	173.6	186.1	198.6	211.1	223.6	236.1	248.6	261.1	273.6	286.1	298.6	311.1	323.6	336.1
L <sub>2</sub>	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0	387.5
L <sub>3</sub>	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0

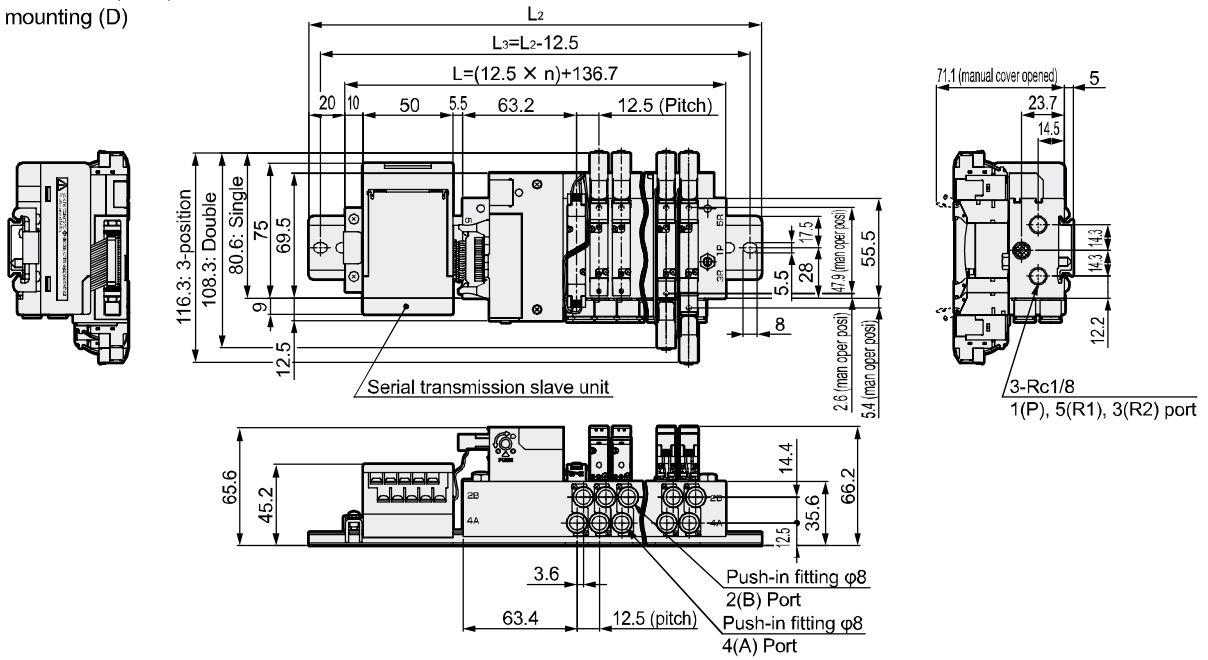
# M4GB1-T6D Series

Reduced wiring manifold; base piping; serial transmission

## Dimensions

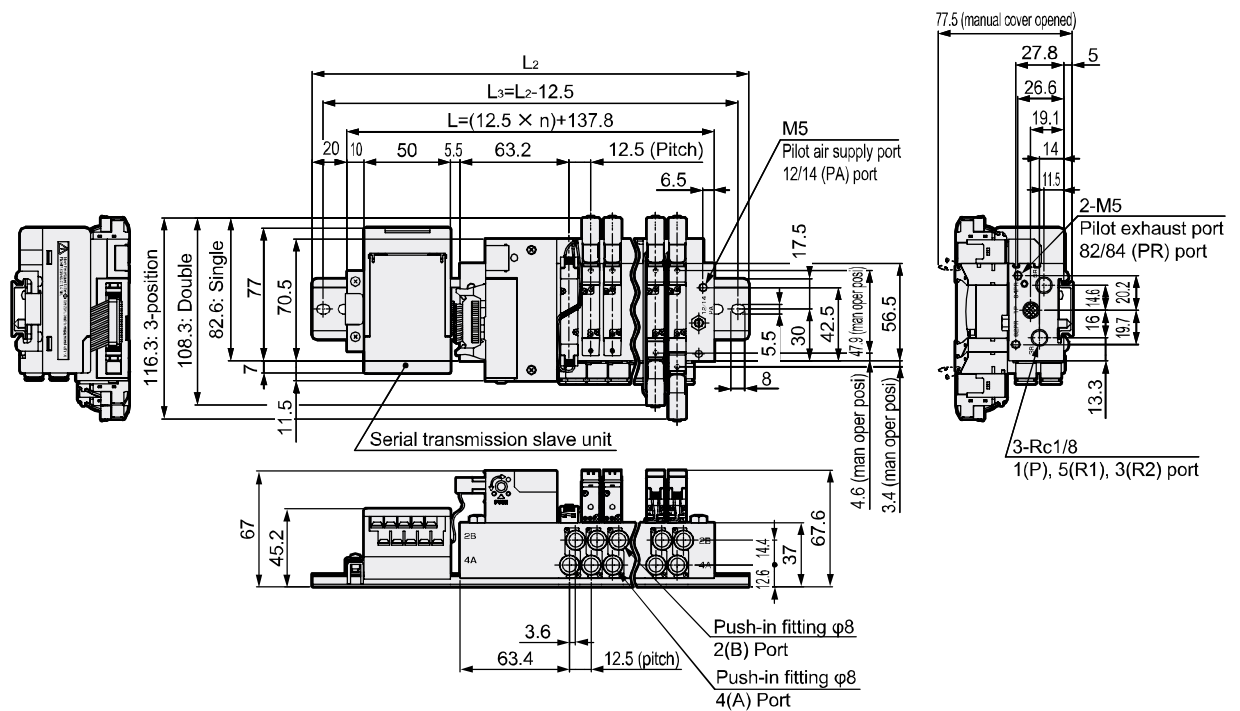
### M4GB1-C8

- Serial transmission (T6□)  
DIN rail mounting (D)



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	161.7	174.2	186.7	199.2	211.7	224.2	236.7	249.2	261.7	274.2	286.7	299.2	311.7	324.2	336.7
L <sub>2</sub>	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0	387.5
L <sub>3</sub>	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0

- Serial transmission (T6□)  
DIN rail mounting (D); external pilot (K)



Stn No.	2	3	4	5	6	7	8	9	10	11	12
L	162.8	175.3	187.8	200.3	212.8	225.3	237.8	250.3	262.8	275.3	287.8
L <sub>2</sub>	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5
L <sub>3</sub>	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0

- 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

# M4GB1-T8\* Series

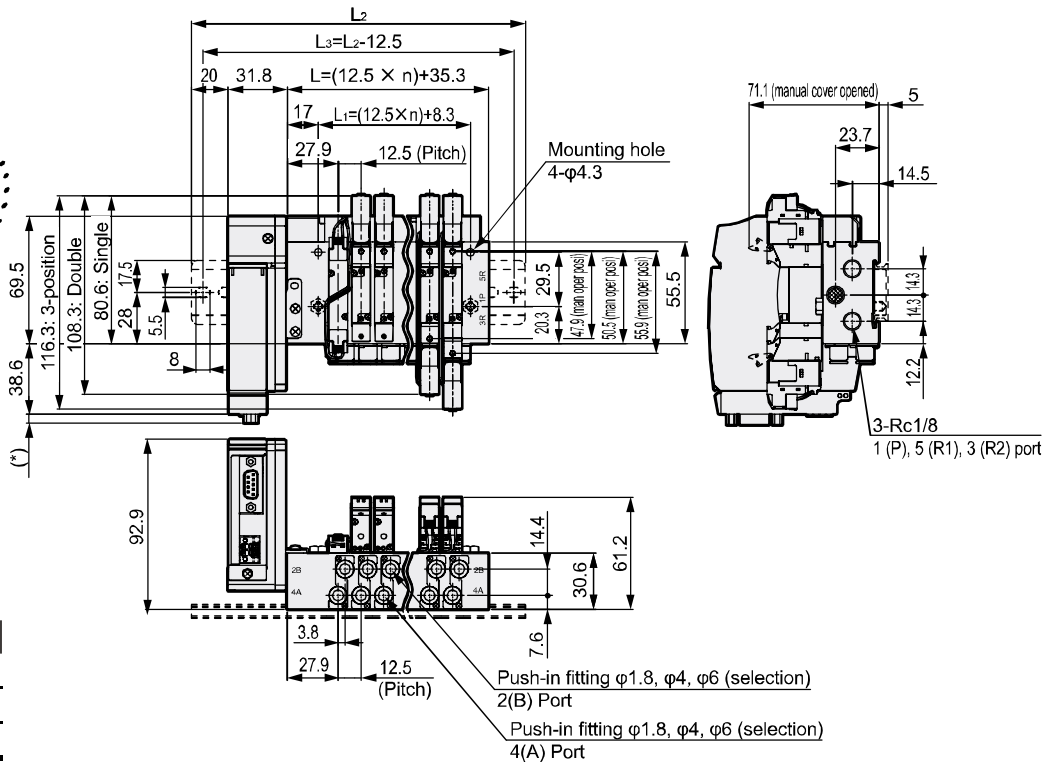
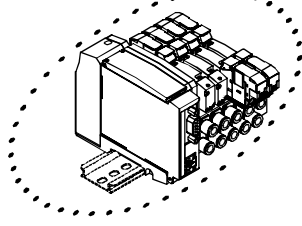
Reduced wiring manifold; base piping; serial transmission

## Dimensions

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

### M4GB1

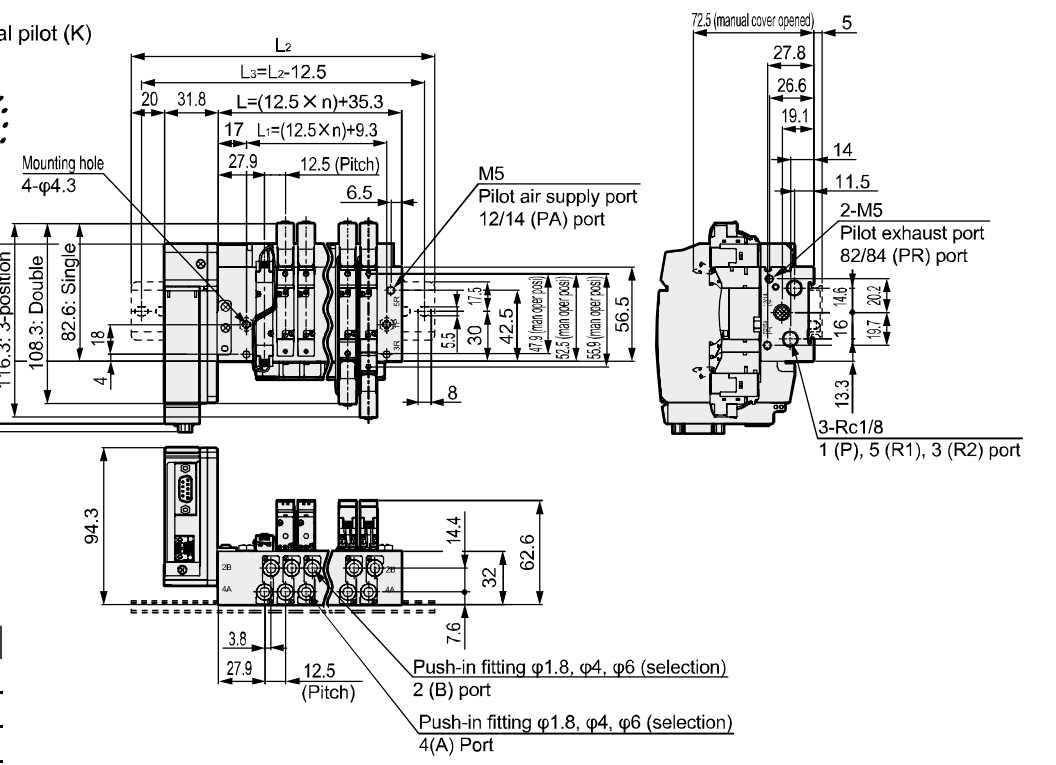
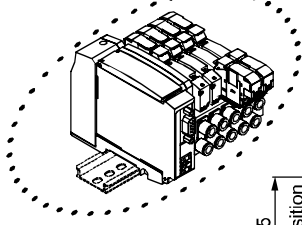
- Serial transmission (T8□)
- DIN rail mounting (D)



Serial transmission	* Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3	197.8	210.3	222.8	235.3	247.8	260.3	272.8	285.3
L <sub>1</sub>	33.3	45.8	58.3	70.8	83.3	95.8	108.3	120.8	133.3	145.8	158.3	170.8	183.3	195.8	208.3	220.8	233.3	245.8	258.3
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

- Serial transmission (T8□)
- DIN rail mounting (D); external pilot (K)



Serial transmission	* Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

Stn No.	2	3	4	5	6	7	8	9	10	11	12
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3
L <sub>1</sub>	34.3	46.8	59.3	71.8	84.3	96.8	109.3	121.8	134.3	146.8	159.3
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0



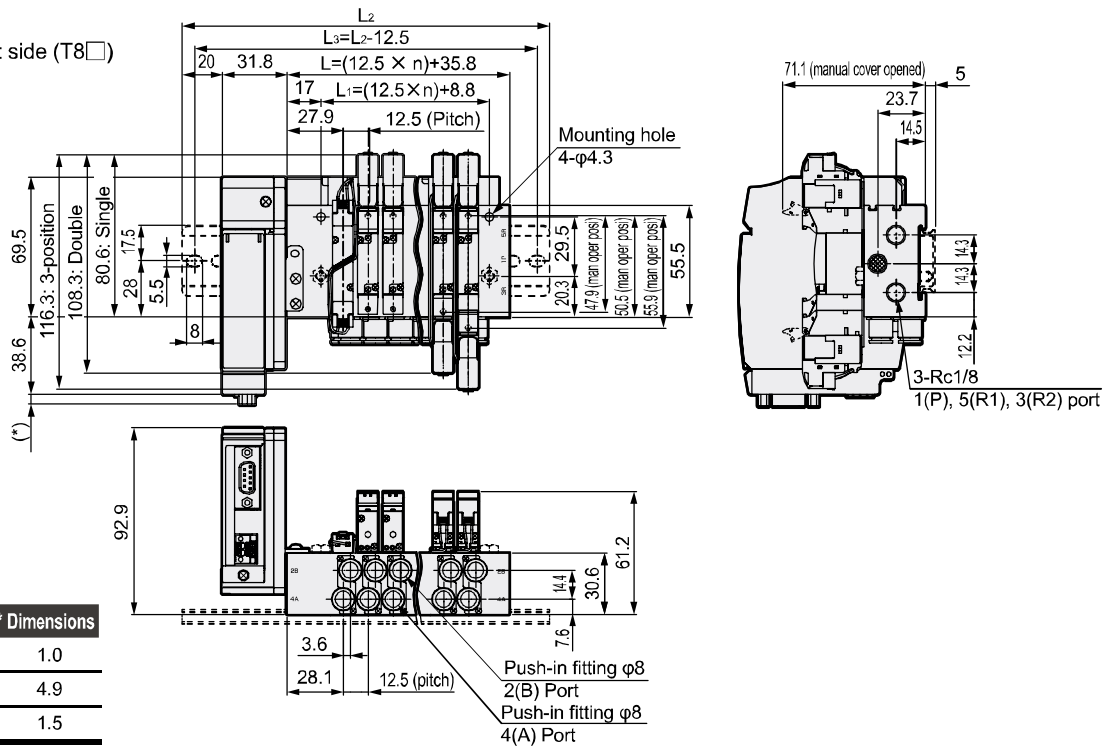
# MN4GB1-T8\* Series

Reduced wiring manifold; base piping; serial transmission

## Dimensions

### M4GB1-C8

● Reduced wiring left side (T8□)

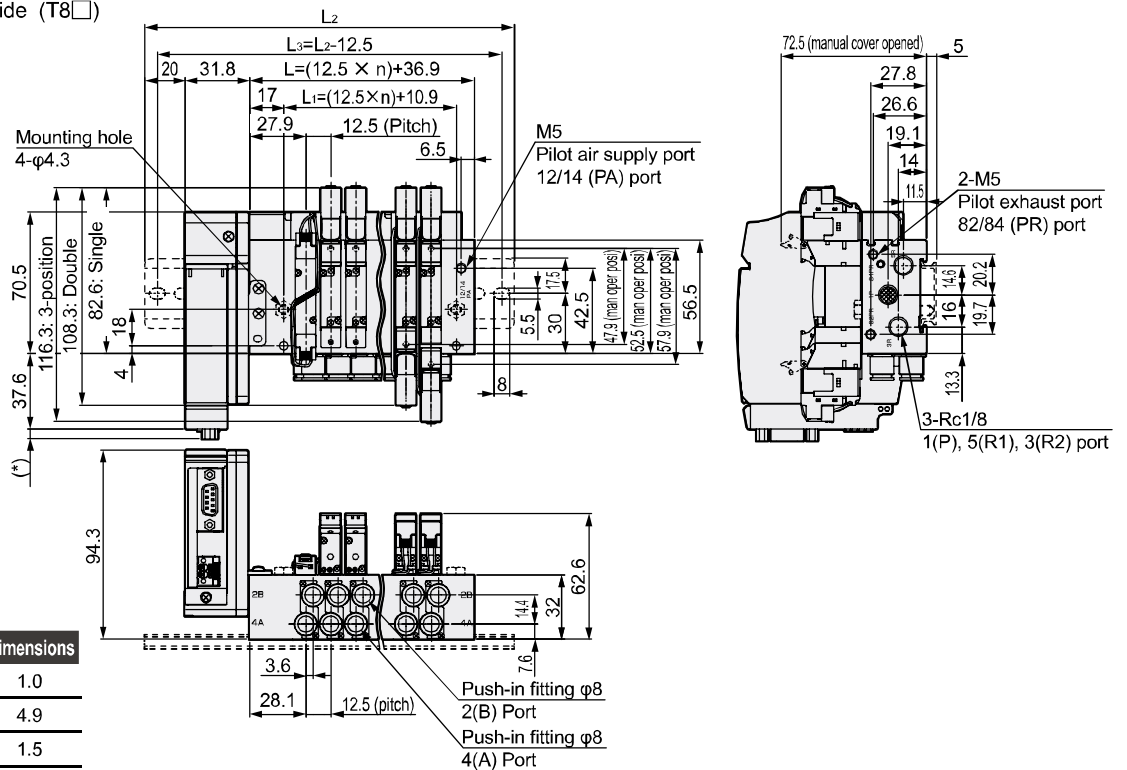


Serial transmission	Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	60.8	73.3	85.8	98.3	110.8	123.3	135.8	148.3	160.8	173.3	185.8	198.3	210.8	223.3	235.8	248.3	260.8	273.3	285.8
L <sub>1</sub>	33.8	46.3	58.8	71.3	83.8	96.3	108.8	121.3	133.8	146.3	158.8	171.3	183.8	196.3	208.8	221.3	233.8	246.3	258.8
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5				
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0				

● Reduced wiring left side (T8□)

External pilot (K)



Serial transmission	Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

Stn No.	2	3	4	5	6	7	8	9	10	11	12
L	61.9	74.4	86.9	99.4	111.9	124.4	136.9	149.4	161.9	174.4	186.9
L <sub>1</sub>	35.9	48.4	60.9	73.4	85.9	98.4	110.9	123.4	135.9	148.4	160.9
L <sub>2</sub>	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L <sub>3</sub>	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

- 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

# M4GB1-T\* Series

Reduced wiring manifold; base piping

## Dimensions

4GA/B

M4GA/B

### M4GB1

● Fitting straight

●  $\phi 1.8$ (CF)

●  $\phi 1.8$ (C18)

●  $\phi 4$ (C4)

●  $\phi 6$ (C6)

●  $\phi 8$ (C8)

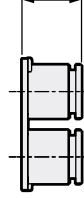
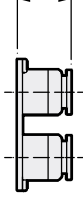
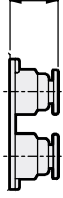
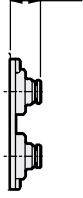
8.8

6.7

10.7

11.9

13.2



4GD/E

M4GD/E

MN4GD/E

4GA4/B4

● Fitting straight, single plug

●  $\phi 1.8$   
(CFNC)

●  $\phi 1.8$   
(C18NC)

●  $\phi 4$   
(C4NC)

●  $\phi 6$   
(C6NC)

●  $\phi 8$   
(C8NC)

●  $\phi 1.8$   
(CFNO)

●  $\phi 1.8$   
(C18NO)

●  $\phi 4$   
(C4NO)

●  $\phi 6$   
(C6NO)

●  $\phi 8$   
(C8NO)

8.8

6.7

10.7

11.9

13.2

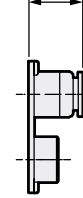
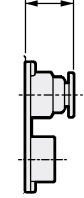
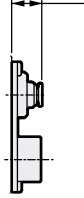
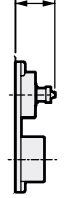
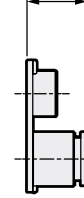
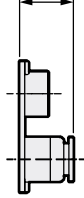
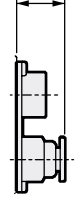
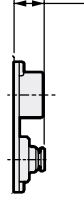
8.8

6.7

10.7

11.9

13.2



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

● L Fitting (upward)

●  $\phi 1.8$ (CL18)

●  $\phi 4$ (CL4)

●  $\phi 6$ (CL6)

● L Fitting (downward)

●  $\phi 1.8$ (CD18)

●  $\phi 4$ (CD4)

●  $\phi 6$ (CD6)

17

7.2 6.8

25.2

9.9 10.5

26.2

10.9 10.5

17

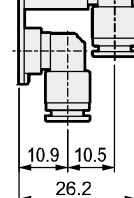
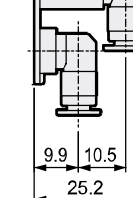
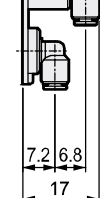
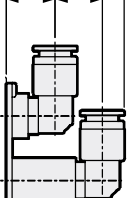
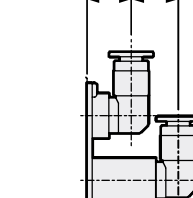
7.2 6.8

25.2

9.9 10.5

26.2

10.9 10.5



● L Fitting (upward), single plug

●  $\phi 1.8$ (CL18NC)

●  $\phi 4$ (CL4NC)

●  $\phi 6$ (CL6NC)

●  $\phi 1.8$ (CL18NO)

●  $\phi 4$ (CL4NO)

●  $\phi 6$ (CL6NO)

17

14

25.2

20.4

26.2

21.4

10.2

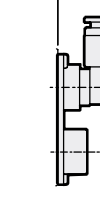
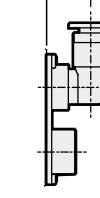
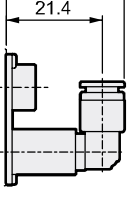
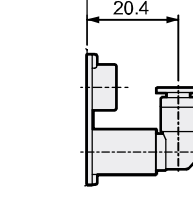
7.2

14.7

9.9

15.7

10.9



● Push-in L Fitting (downward), single plug

●  $\phi 1.8$ (CD18NC)

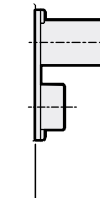
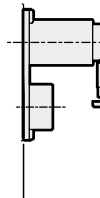
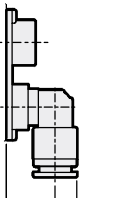
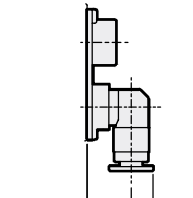
●  $\phi 4$ (CD4NC)

●  $\phi 6$ (CD6NC)

●  $\phi 1.8$ (CD18NO)

●  $\phi 4$ (CD4NO)

●  $\phi 6$ (CD6NO)



7.2

10.2

9.9

14.7

10.9

15.7

14

17

20.4

25.2

21.4

26.2

Ending

# M4GB2-T\* Series

Reduced wiring manifold; base piping

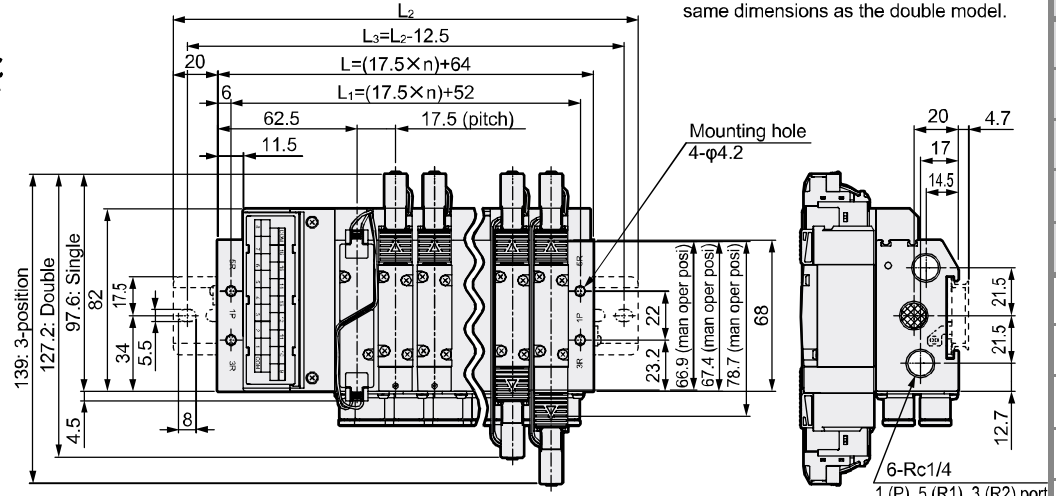
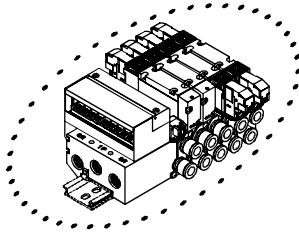
## Dimensions



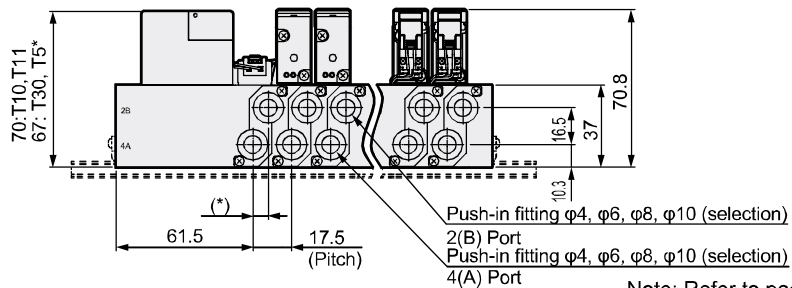
### M4GB2

- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)

- \*1 Figure shows T10. Refer to page 183 for detailed wiring block dimensions.
- \*2 The two 3-port valve integrated has the same dimensions as the double model.

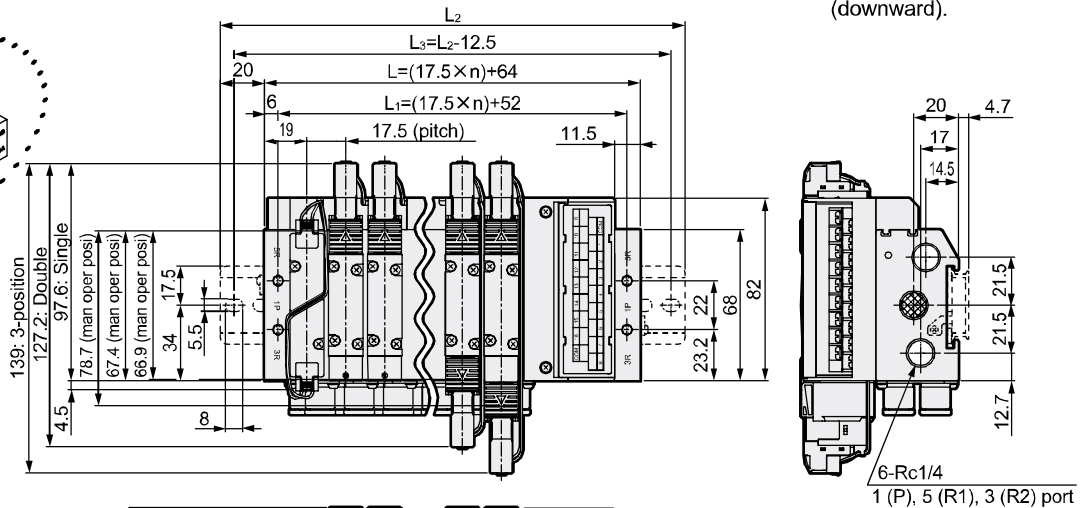
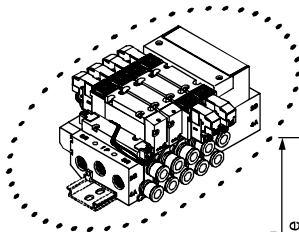


Bore size of A/B port	* Dimensions
$\phi$ 4, $\phi$ 6, $\phi$ 8	7
$\phi$ 10	8.1

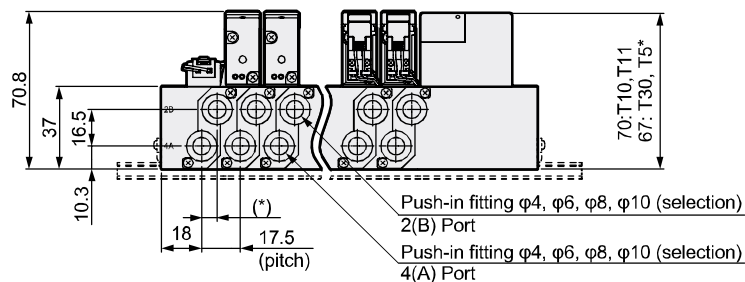


- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)

Note: Refer to page 177 for details on the push-in fitting elbow (upward) (downward).



Bore size of A/B port	* Dimensions
$\phi$ 4, $\phi$ 6, $\phi$ 8	7
$\phi$ 10	8.1



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0	396.5	414.0
L <sub>1</sub>	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0	384.5	402.0
L <sub>2</sub>	150.0	162.5	175.0	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5				
L <sub>3</sub>	137.5	150.0	162.5	187.5	200.0	225.0	237.0	250.0	275.0	287.5	312.5	325.0	337.5	362.5	375.0				

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

# M4GB2-T\* Series

Reduced wiring manifold; base piping

## Dimensions



4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E  
MN4E

W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0  
MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G  
GMF

PV5  
GMF

PV5S-0

3QR  
3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

4F\*0E

HMV  
HSV

2QV  
3QV

SKH

PCD

Slencer

TotAirSys (TotalAir)

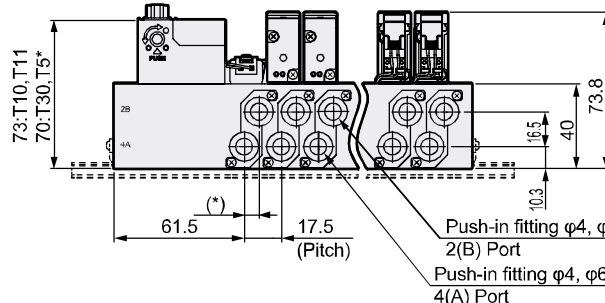
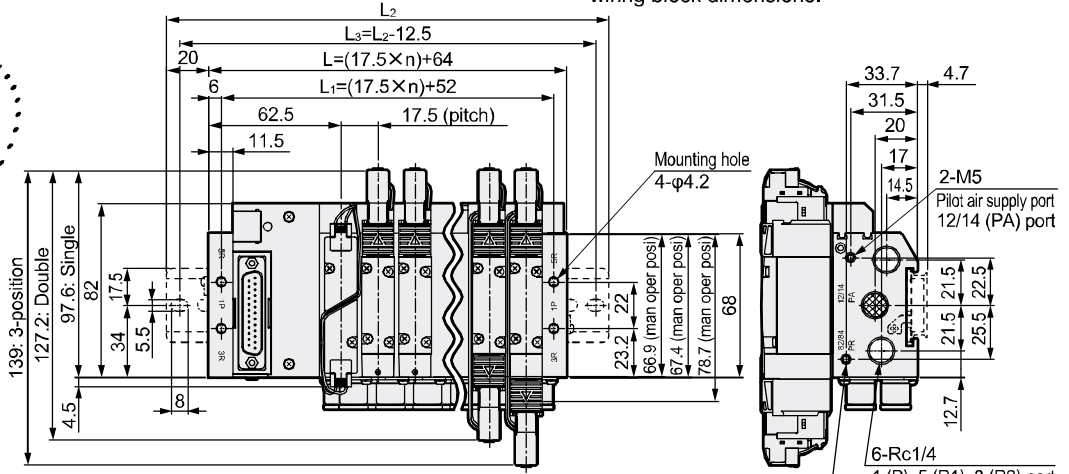
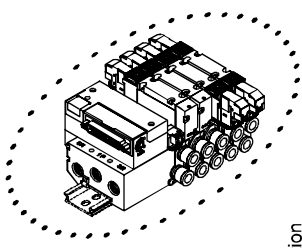
TotAirSys (Gamma)

Ending

### M4GB2

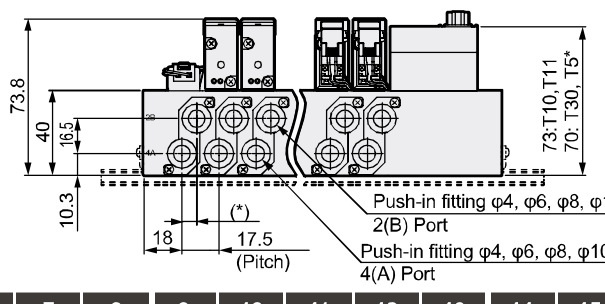
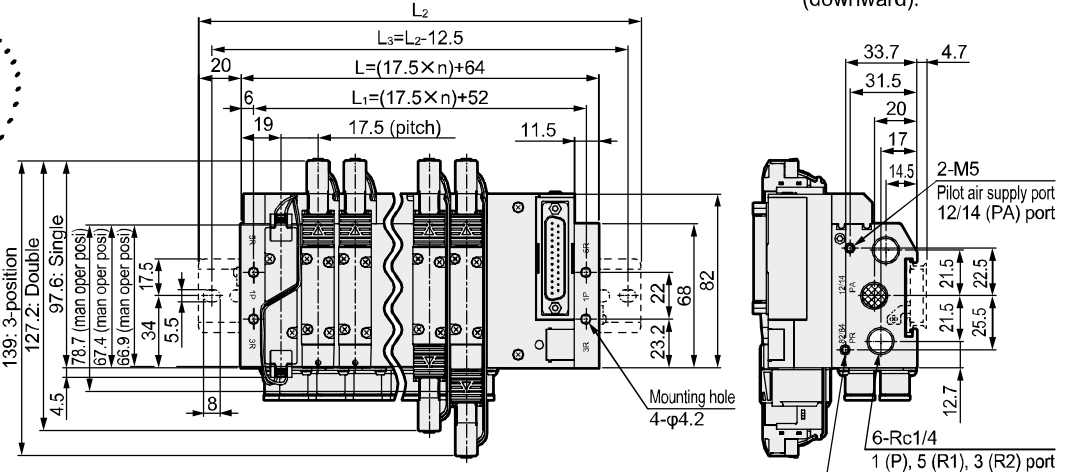
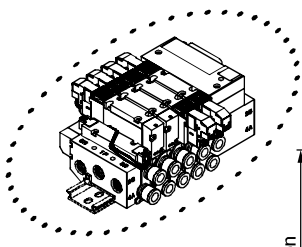
- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)

\* Figure shows T30. Refer to page 183 for detailed wiring block dimensions.



Bore size of A/B port	Dimensions
φ4, φ6, φ8	7
φ10	8.1

- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



Bore size of A/B port	Dimensions
φ4, φ6, φ8	7
φ10	8.1

Note: Refer to page 177 for details on the push-in fitting elbow (upward) (downward).

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0	396.5	414.0
L1	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0	384.5	402.0
L2	150.0	162.5	175.0	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5				
L3	137.5	150.0	162.5	187.5	200.0	225.0	237.5	250.0	275.0	287.5	312.5	325.0	337.5	362.5	375.0				

# M4GB2-T6D Series

Reduced wiring manifold; base piping; serial transmission

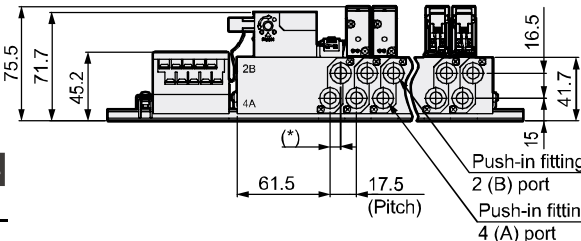
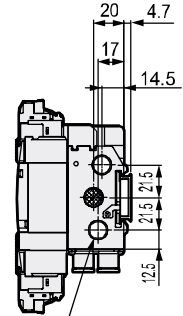
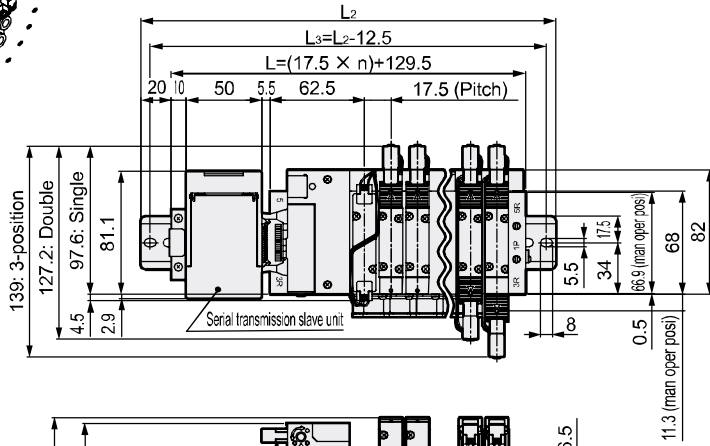
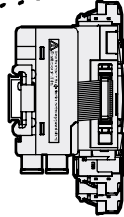
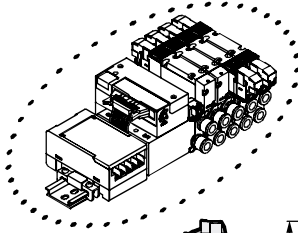
## Dimensions



### M4GB2

- Serial transmission (T6□)  
DIN rail mounting (D)

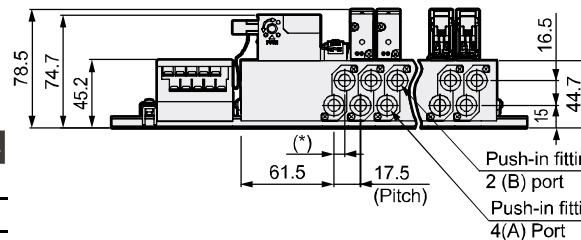
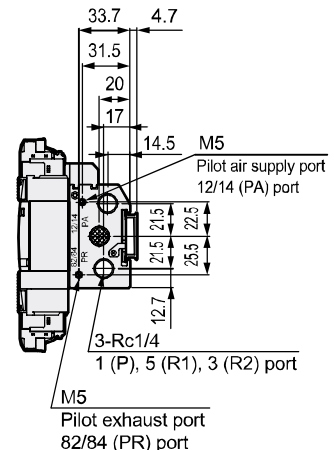
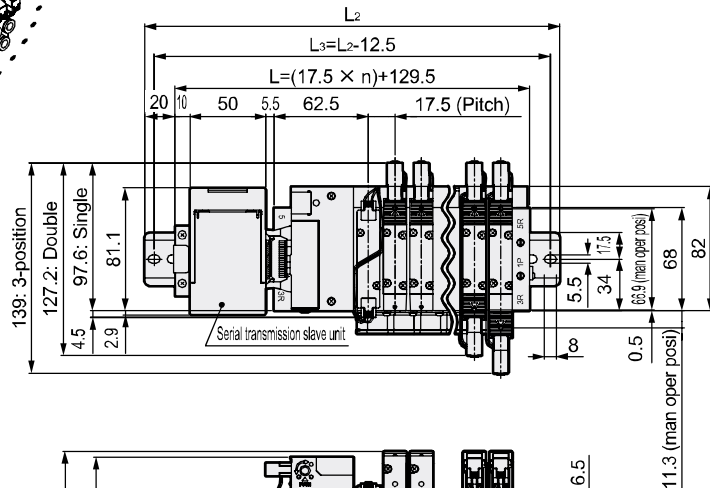
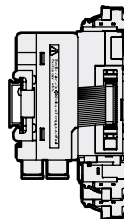
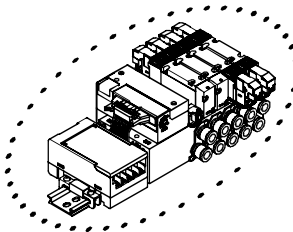
\* The two 3-port valve integrated has the same dimensions as the double.



Bore size of A/B port	* Dimensions
φ4, φ6, φ8	7
φ10	8.1

- Serial transmission (T6□)  
DIN rail mounting (D); external pilot (K)

Note: Refer to page 177 for details on the push-in fitting elbow (upward) (downward).



Bore size of A/B port	* Dimensions
φ4, φ6, φ8	7
φ10	8.1

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	164.5	182.0	199.5	217.0	234.5	252.0	269.5	287.0	304.5	322.0	339.5	357.0	374.5	392.0	409.5
L <sub>2</sub>	212.5	225.0	250.0	262.5	275.0	300.0	312.5	337.5	350.0	362.5	387.5	400.0	425.0	437.5	450.0
L <sub>3</sub>	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0	387.5	412.5	425.0	437.5

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

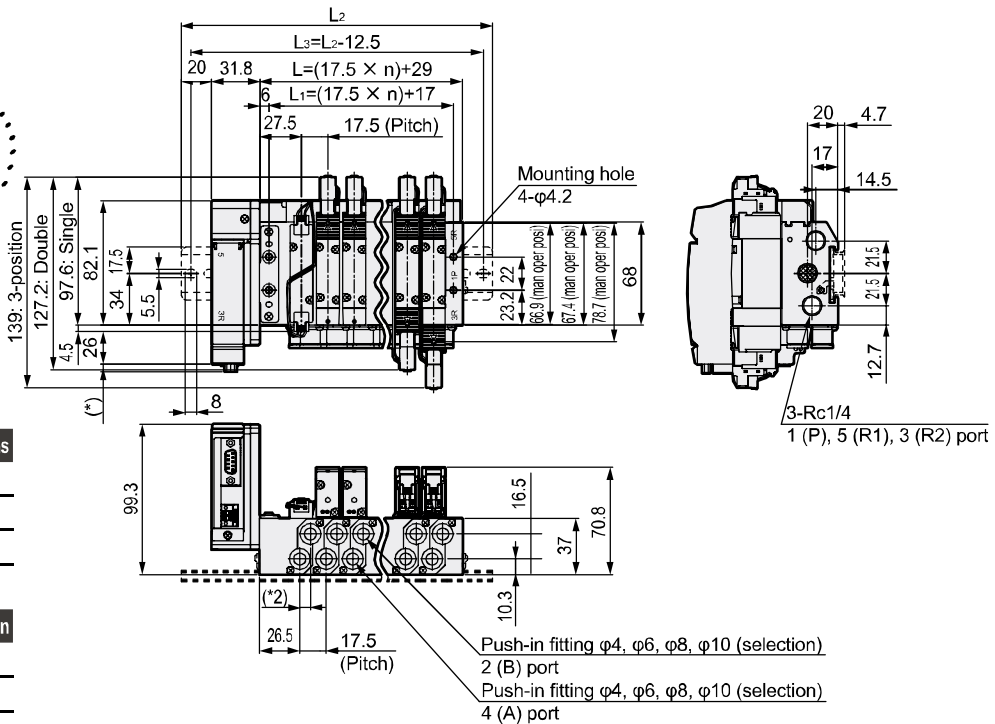
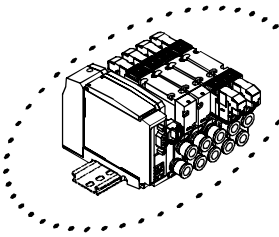
# M4GB2-T8\* Series

Reduced wiring manifold; base piping; serial transmission

## 4GA/B Dimensions

### M4GA/B M4GB2

- Serial transmission (T8□)  
DIN rail mounting (D)



#### Serial transmission \* Dimensions

Serial transmission	* Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

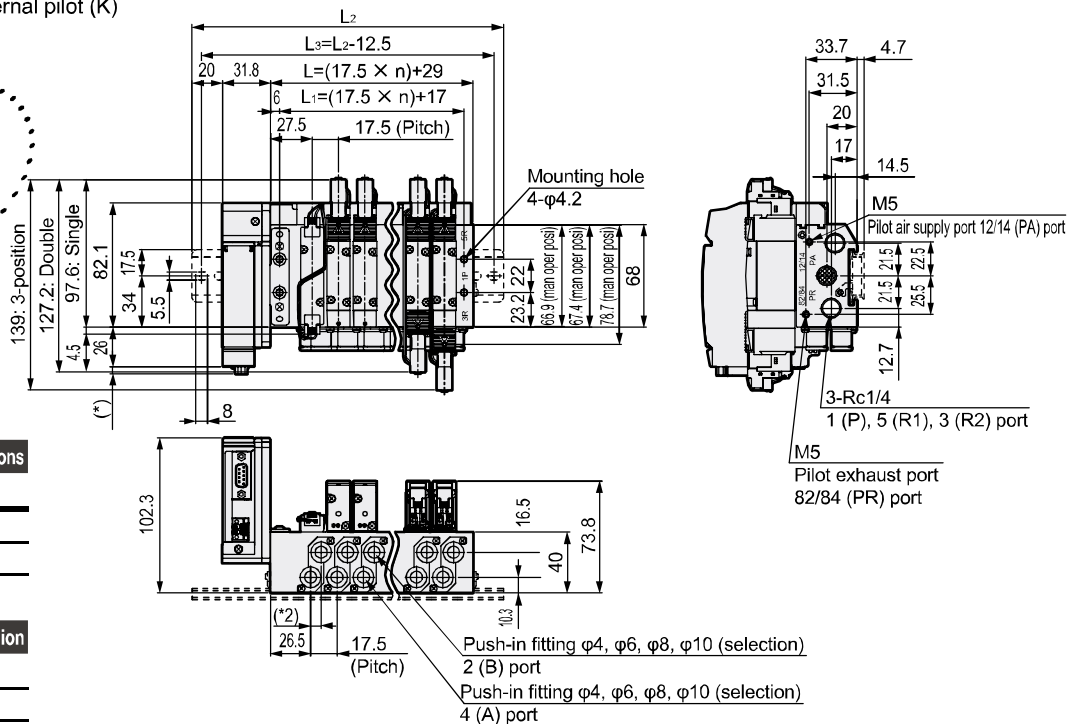
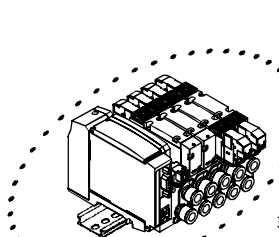
\*2

#### Bore size of A/B port \*2 dimension

Bore size of A/B port	*2 dimension
$\phi 4, \phi 6, \phi 8$	7
$\phi 10$	8.1

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L <sub>1</sub>	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L <sub>2</sub>	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L <sub>3</sub>	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

- Serial transmission (T8□)  
DIN rail mounting (D); external pilot (K)



#### Serial transmission \* Dimensions

Serial transmission	* Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

\*2

#### Bore size of A/B port \*2 dimension

Bore size of A/B port	*2 dimension
$\phi 4, \phi 6, \phi 8$	7
$\phi 10$	8.1

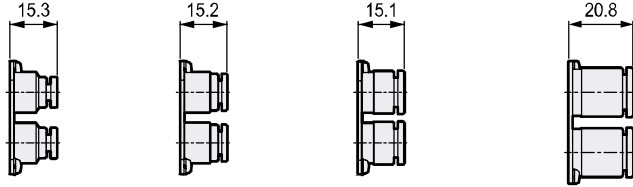
Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L <sub>1</sub>	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L <sub>2</sub>	137.5	162.5	175.0	200.0	212.5	225.0	250.0	262.5	287.5	300.0	312.5	337.5	350.0	375.0	387.5				
L <sub>3</sub>	125.0	150.0	162.5	187.5	200.0	212.5	237.5	250.0	275.0	287.5	300.0	325.0	337.5	362.5	375.0				

## Dimensions

### M4GB2

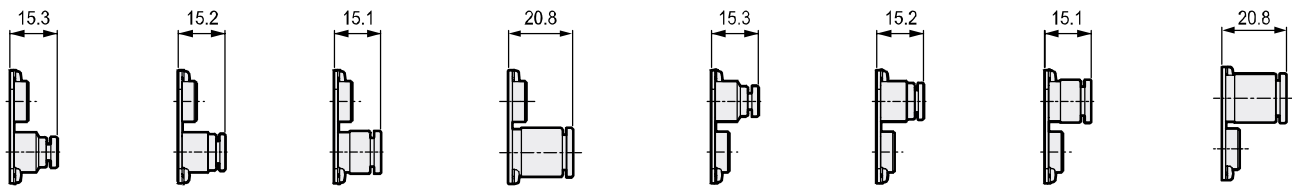
● Fitting straight

- $\phi 4$ (C4)
- $\phi 6$ (C6)
- $\phi 8$ (C8)
- $\phi 10$ (C10)



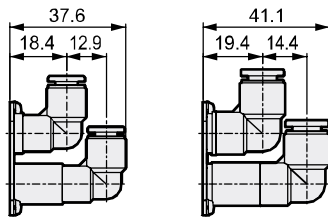
● Fitting straight, single plug

- $\phi 4$  (C4NC)
- $\phi 6$  (C6NC)
- $\phi 8$  (C8NC)
- $\phi 10$  (C10NC)
- $\phi 4$  (C4NO)
- $\phi 6$  (C6NO)
- $\phi 8$  (C8NO)
- $\phi 10$  (C10NO)



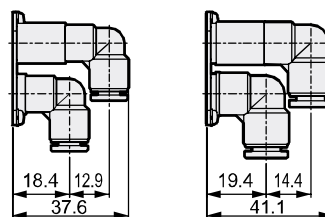
● L Fitting (upward)

- $\phi 6$ (CL6)
- $\phi 8$ (CL8)



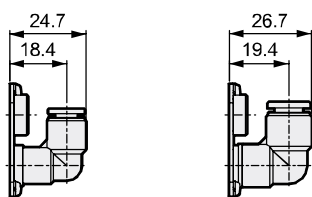
● L Fitting (downward)

- $\phi 6$ (CD6)
- $\phi 8$ (CD8)



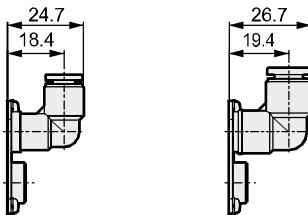
● L Fitting (upward), single plug

- $\phi 6$ (CL6NC)
- $\phi 8$ (CL8NC)



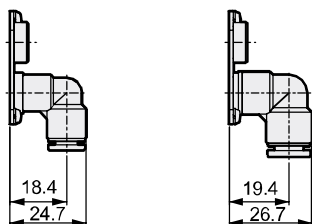
- $\phi 6$ (CL6NO)

- $\phi 8$ (CL8NO)



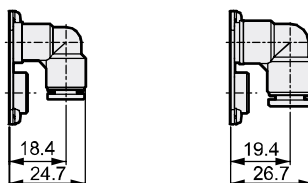
● L Fitting (downward), single plug

- $\phi 6$ (CD6NC)
- $\phi 8$ (CD8NC)



- $\phi 6$ (CD6NO)

- $\phi 8$ (CD8NO)



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

# M4GB3-T\* Series

Reduced wiring manifold; base piping

## Dimensions

4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E  
MN4E

W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0  
MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G  
GMF

PV5  
GMF

PV5S-0

3QR  
3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

4F\*0E

HMV  
HSV

2QV  
3QV

SKH

PCD

Silencer

TotAirSys  
(TotalAir)

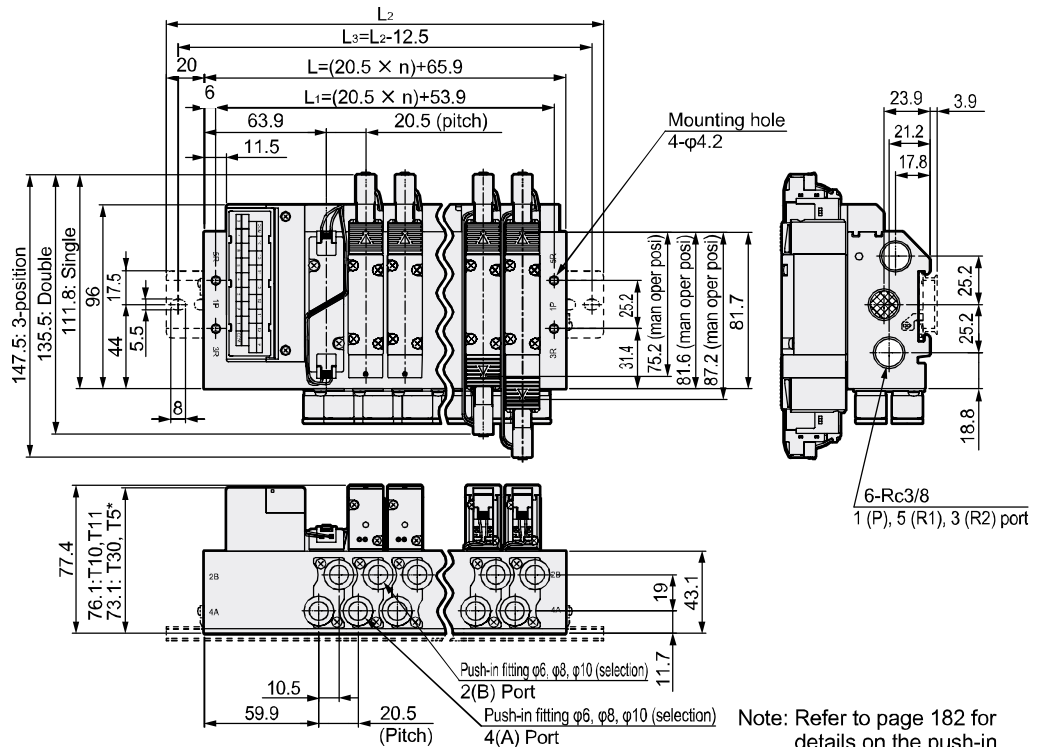
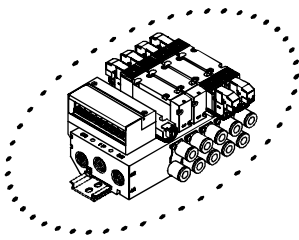
TotAirSys  
(Gamma)

Ending

### M4GB3

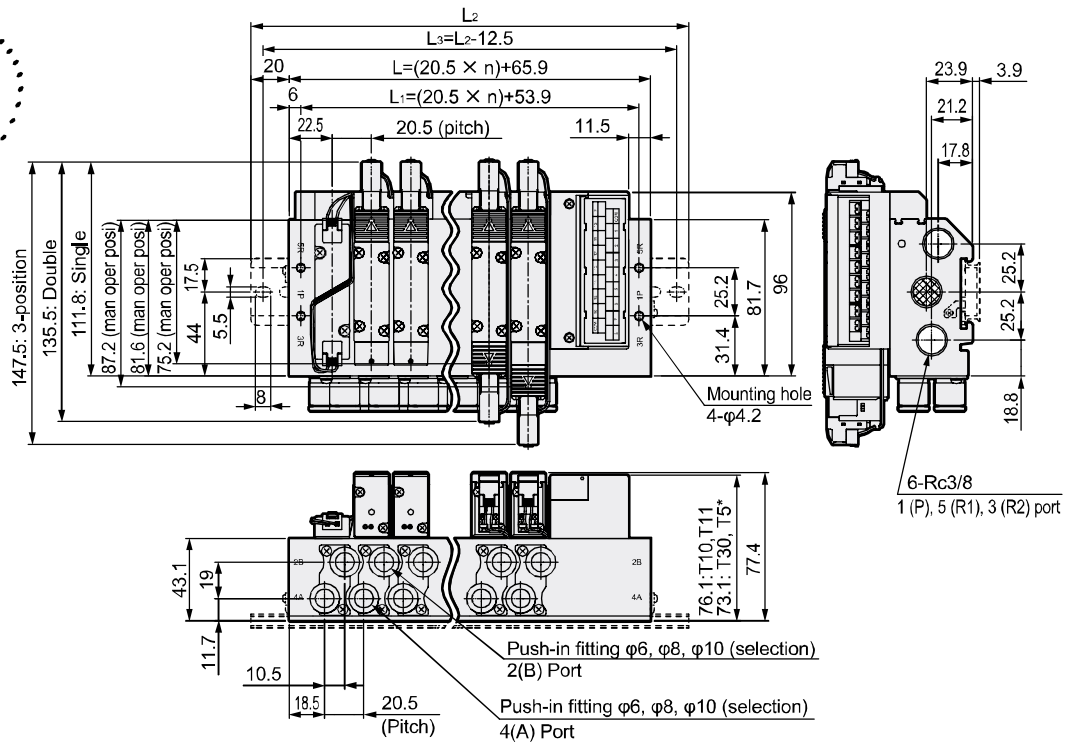
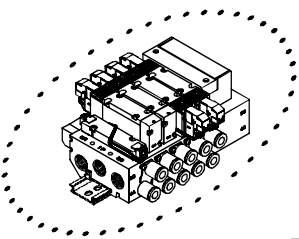
● Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)

\* Figure shows T10. Refer to page 183 for detailed wiring block dimensions.



● Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)

Note: Refer to page 182 for details on the push-in fitting elbow (upward) (downward).



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	106.9	127.4	147.9	168.4	188.9	209.4	229.9	250.4	270.9	291.4	311.9	332.4	352.9	373.4	393.9
L <sub>1</sub>	94.9	115.4	135.9	156.4	176.9	197.4	217.9	238.4	258.9	279.4	299.9	320.4	340.9	361.4	381.9
L <sub>2</sub>	150.0	175.0	200.0	212.5	237.5	250.0	275.0	300.0	312.5	337.5	362.5	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	187.5	200.0	225.0	237.5	262.5	287.5	300.0	325.0	350.0	362.5	387.5	400.0	425.0



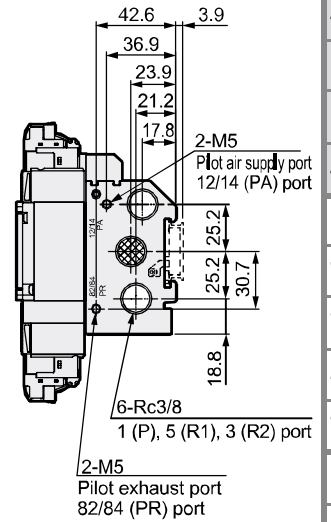
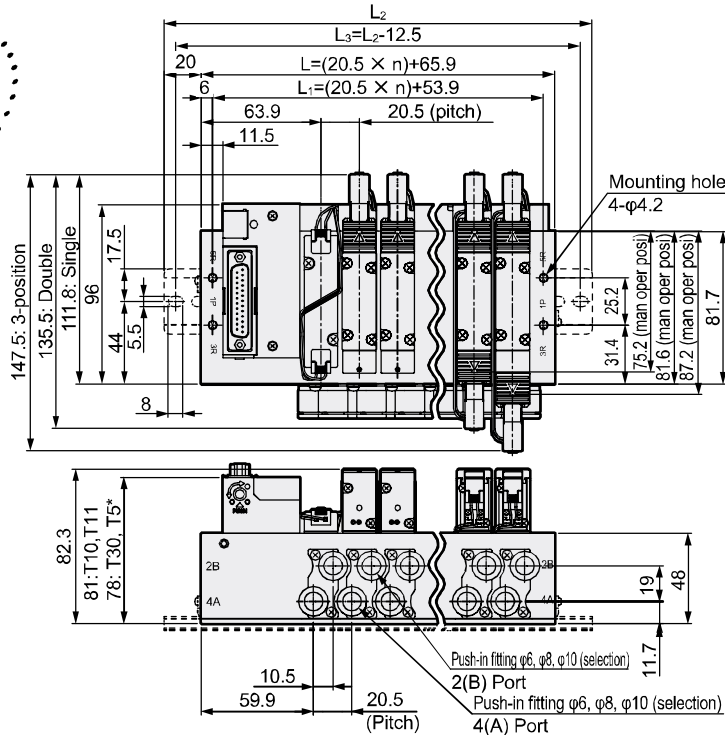
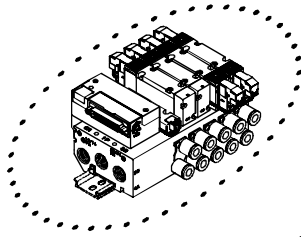
### Dimensions



### M4GB3

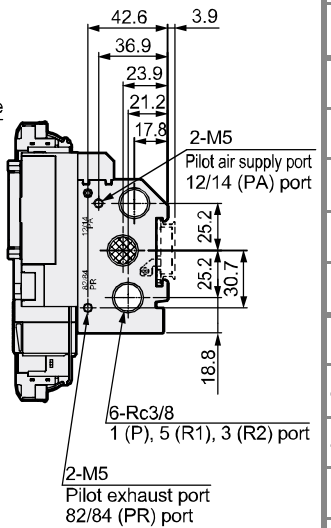
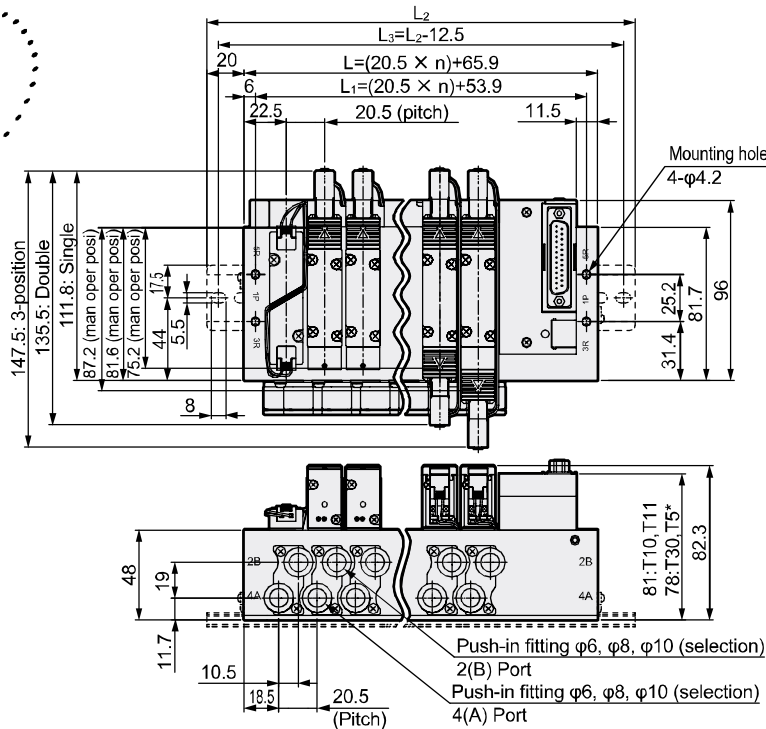
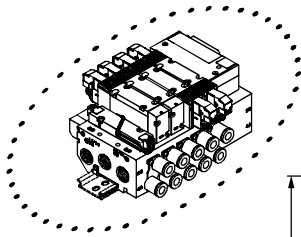
- Reduced wiring left side (T10/T11/T30/T50/T51/T52/T53)  
External pilot (K)

\* Figure shows T30. Refer to page 183 for detailed wiring block dimensions.



Note: Refer to page 182 for details on the push-in fitting elbow (upward) (downward).

- Reduced wiring right side (T10R/T11R/T30R/T50R/T51R/T52R/T53R)  
External pilot (K)



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	106.9	127.4	147.9	168.4	188.9	209.4	229.9	250.4	270.9	291.4	311.9	332.4	352.9	373.4	393.9
L <sub>1</sub>	94.9	115.4	135.9	156.4	176.9	197.4	217.9	238.4	258.9	279.4	299.9	320.4	340.9	361.4	381.9
L <sub>2</sub>	150.0	175.0	200.0	212.5	237.5	250.0	275.0	300.0	312.5	337.5	362.5	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	187.5	200.0	225.0	237.5	262.5	287.5	300.0	325.0	350.0	362.5	387.5	400.0	425.0

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

# M4GB3-T6D Series

Reduced wiring manifold; base piping; serial transmission

## Dimensions



4GA/B

M4GA/B

MN4GA/B

4GA/B (mastr)

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E  
MN4E

W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0  
MN4S0

4SA/B0

4KA/B

4KA/B (mastr)

4F

4F (mastr)

PV5G  
GMF

PV5  
GMF

PV5S-0

3QR  
3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

4F\*0E

HMV  
HSV

2QV  
3QV

SKH

PCD

Silencer

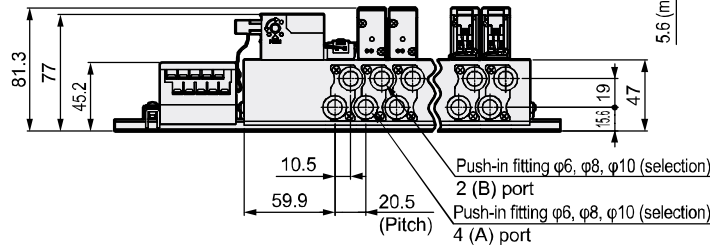
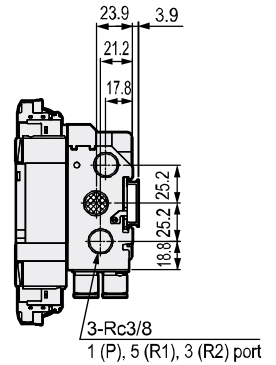
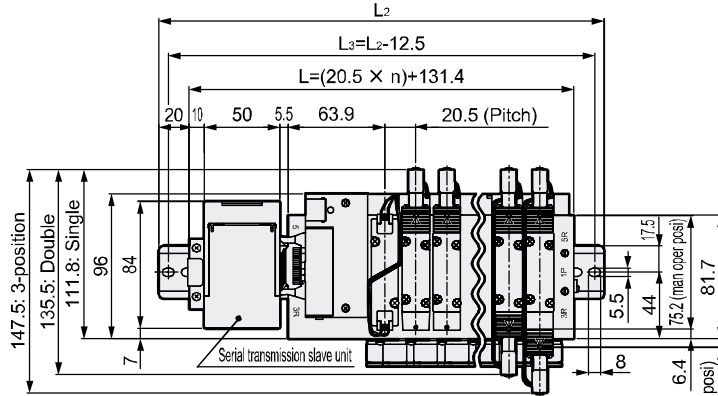
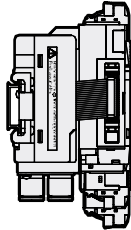
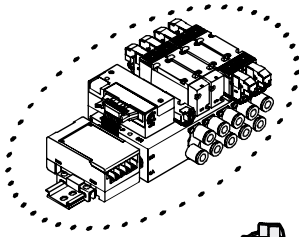
TotAirSys  
(TotalAir)

TotAirSys  
(Gamma)

Ending

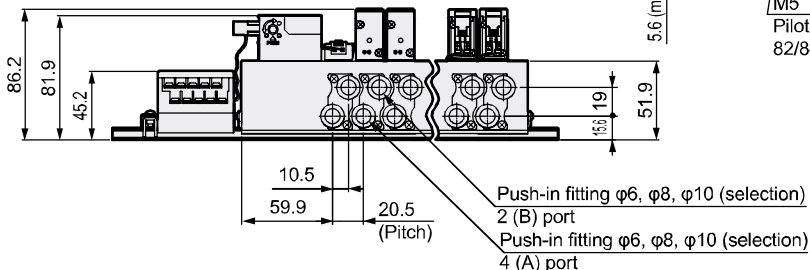
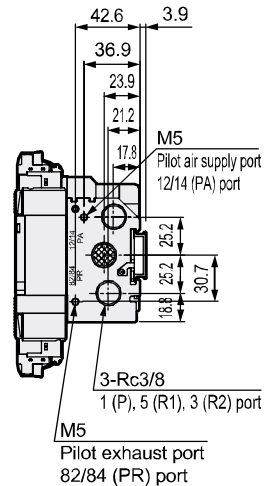
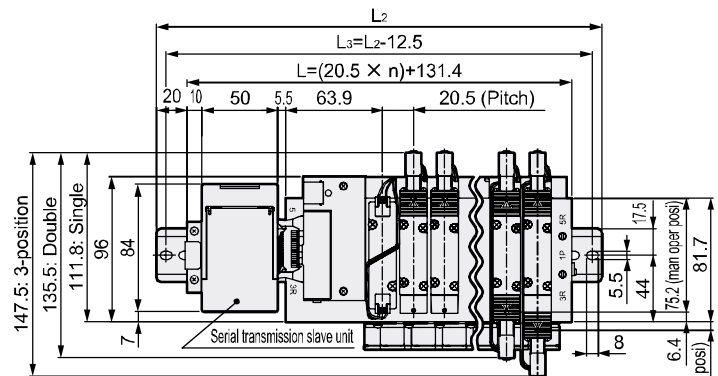
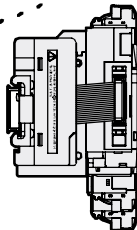
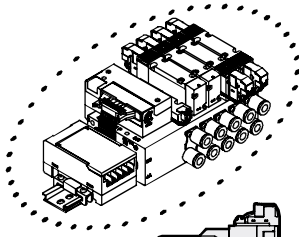
### M4GB3

- Serial transmission (T6□)  
DIN rail mounting (D)



Note: Refer to page 182 for details on the push-in fitting elbow (upward) (downward).

- Serial transmission (T6□)  
DIN rail mounting (D); external pilot (K)



Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	172.4	192.9	213.4	233.9	254.4	274.9	295.4	315.9	336.4	356.9	377.4	397.9	418.4	438.9	459.4
L <sub>2</sub>	212.5	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0	450.0	462.5	487.5	500.0
L <sub>3</sub>	200.0	225.0	250.0	262.5	287.5	312.5	325.0	350.0	375.0	387.5	412.5	437.5	450.0	475.0	487.5

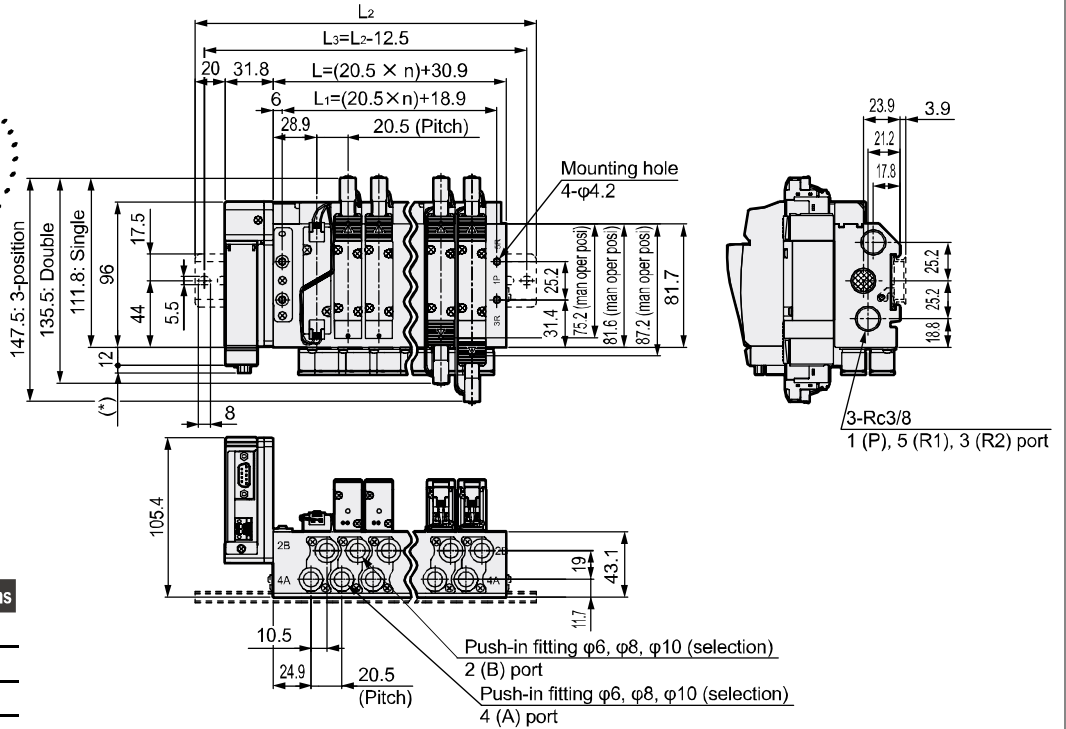
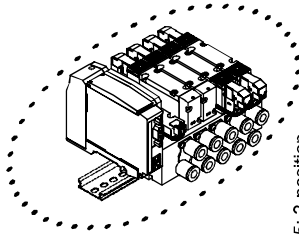
# M4GB3-T8\* Series

Reduced wiring manifold; base piping; serial transmission

## Dimensions

### M4GB3

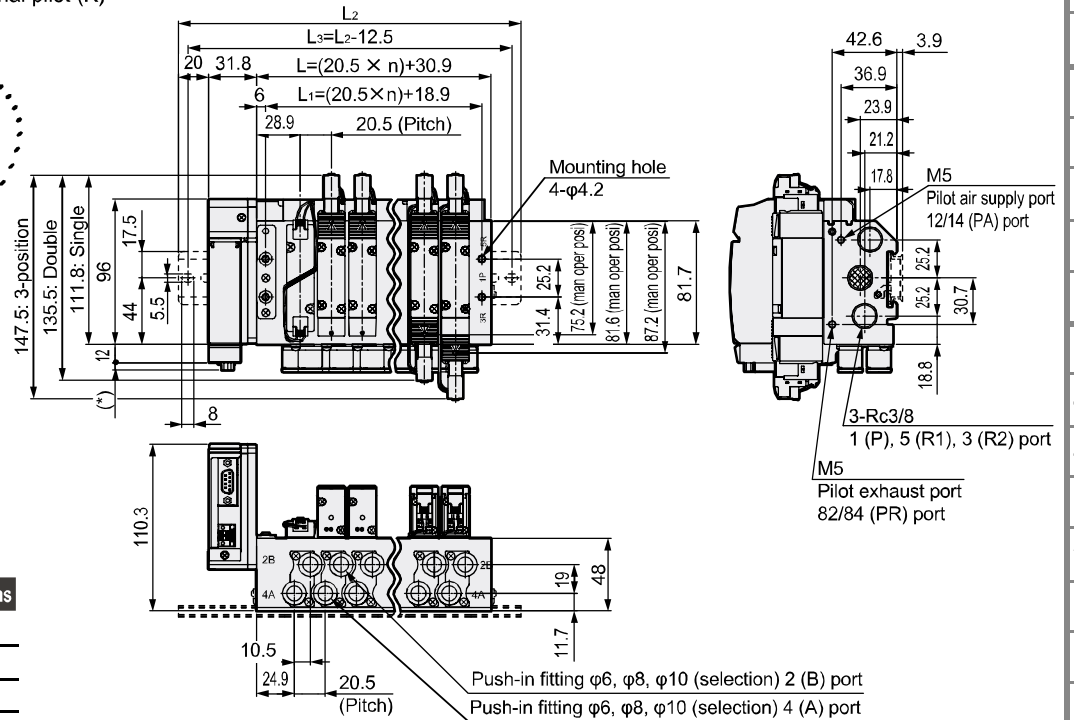
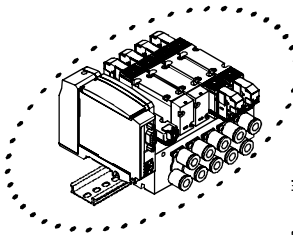
- Serial transmission (T8□)  
DIN rail mounting (D)



Serial transmission	* Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L <sub>1</sub>	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L <sub>2</sub>	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

- Serial transmission (T8□)  
DIN rail mounting (D); external pilot (K)



Serial transmission	* Dimensions
T8G□	1.0
T8P□	4.9
T8E□	1.5

Stn No.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	71.9	92.4	112.9	133.4	153.9	174.4	194.9	215.4	235.9	256.4	276.9	297.4	317.9	338.4	358.9
L <sub>1</sub>	59.9	80.4	100.9	121.4	141.9	162.4	182.9	203.4	223.9	244.4	264.9	285.4	305.9	326.4	346.9
L <sub>2</sub>	150.0	175.0	187.5	212.5	237.5	250.0	275.0	287.5	312.5	337.5	350.0	375.0	400.0	412.5	437.5
L <sub>3</sub>	137.5	162.5	175.0	200.0	225.0	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0

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

# M4GB3-T\* Series

Reduced wiring manifold; base piping

## Dimensions

4GA/B

M4GA/B

### M4GB3

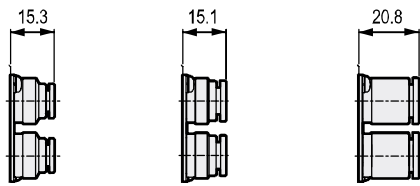
MN4GA/B

● Fitting straight

●  $\phi 6$ (C6)

●  $\phi 8$ (C8)

●  $\phi 10$ (C10)



4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E

● Fitting straight, single plug

●  $\phi 6$ (C6NC)

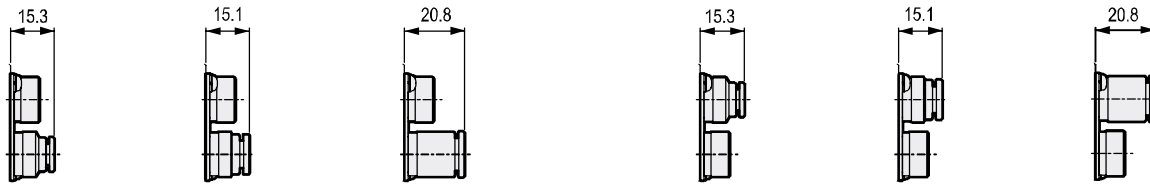
●  $\phi 8$ (C8NC)

●  $\phi 10$ (C10NC)

●  $\phi 6$ (C6NO)

●  $\phi 8$ (C8NO)

●  $\phi 10$ (C10NO)



W4GA/B2

W4GB4

4TB

4L2-4/  
LMF0

MN3S0

MN4S0

4SA/B0

● L Fitting (upward)

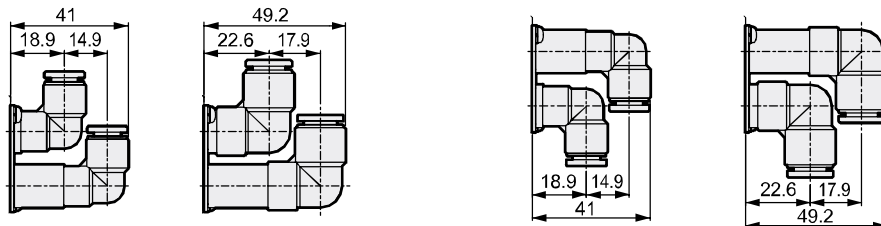
●  $\phi 8$ (CL8)

●  $\phi 10$ (CL10)

● L Fitting (downward)

●  $\phi 8$ (CD8)

●  $\phi 10$ (CD10)



4KA/B

4KA/B  
(mastr)

4F

4F  
(mastr)

PV5G

GMF

PV5

GMF

PV5S-0

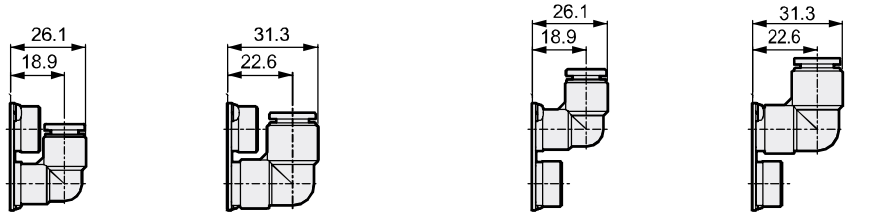
● L Fitting (upward), single plug

●  $\phi 8$ (CL8NC)

●  $\phi 10$ (CL10NC)

●  $\phi 8$ (CL8NO)

●  $\phi 10$ (CL10NO)



3QR

3QB

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

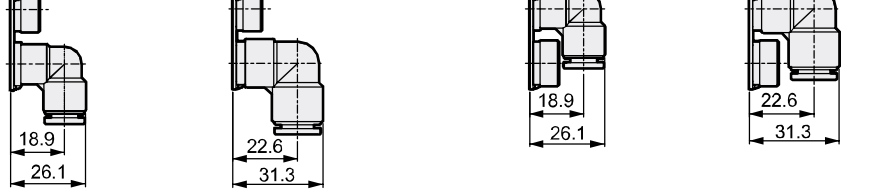
● L Fitting (downward), single plug

●  $\phi 8$ (CD8NC)

●  $\phi 10$ (CD10NC)

●  $\phi 8$ (CD8NO)

●  $\phi 10$ (CD10NO)



HMV

HSV

2QV

3QV

SKH

PCD

Silencer

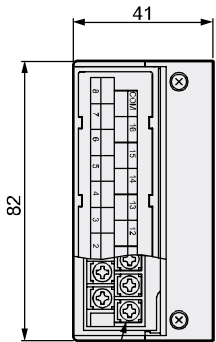
TotAirSys  
(TotalAir)

TotAirSys  
(Gamma)

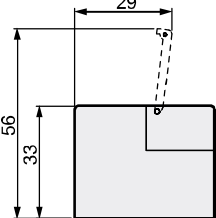
Ending

## Reduced wiring part: Dimensions

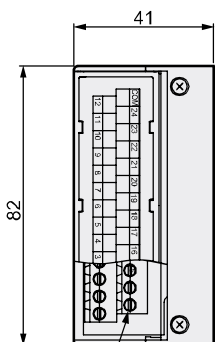
● Common terminal block (M3 thread)  
T10



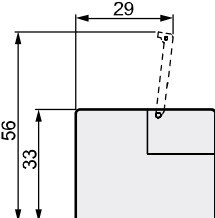
18-M3  
Terminal



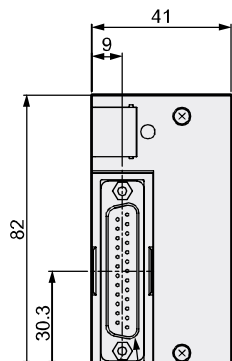
● Common terminal block (clamping)  
T11



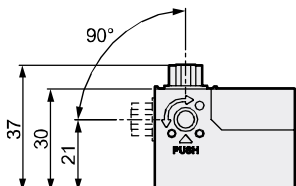
26-M3  
Clamping terminal



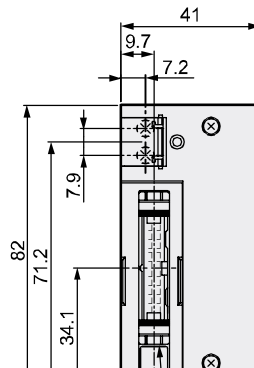
● D sub-connector  
T30



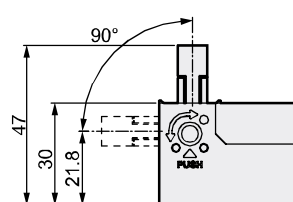
2-M2.6  
D sub-connector



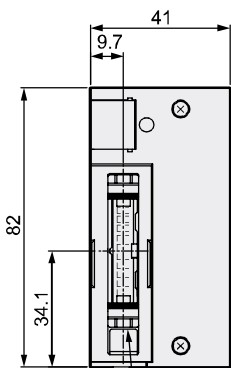
● 20-pin flat cable connector  
(with power supply terminal) T50



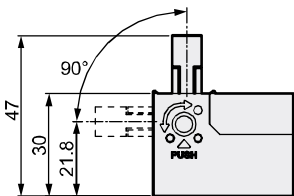
20-pole connector  
MIL standards compliant product



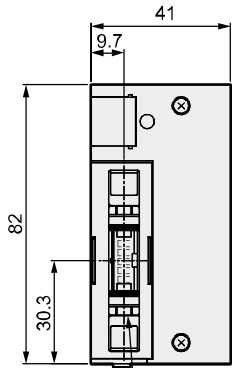
● 20-pin flat cable connector  
(without power supply terminal) T51



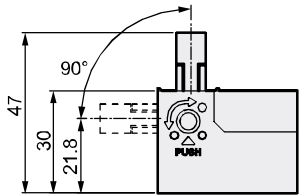
20-pole connector  
MIL standards compliant product



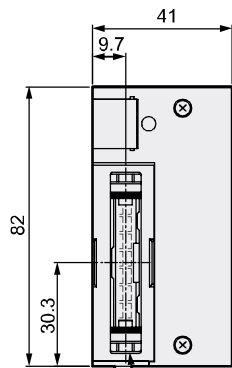
● 10-pin flat cable connector  
(without power supply terminal) T52



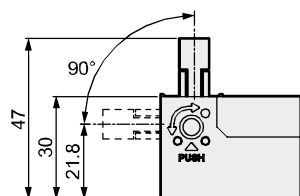
10-pole connector  
MIL standards compliant product



● 26-pin flat cable connector  
(without power supply terminal) T53



26-pole connector  
MIL standards compliant product



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

# M4GB1/2/3-T6D/T8\* Series

Reduced wiring manifold; base piping; serial transmission

● Discrete serial transmission slave unit model No.

**4GR** - **OPP3** - **0A**

Ⓐ Wiring method

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

● Discrete serial transmission slave unit model No.

**4GR** - **OPP7** - **2G**

Ⓐ Wiring method

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

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

# MEMO

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

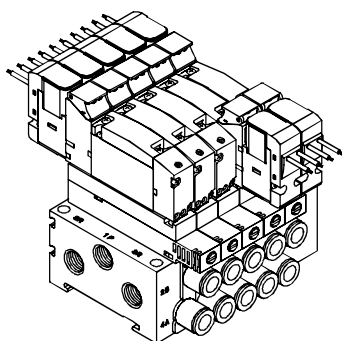
# M4GA1 to 3/M4GB1 to 3 Series

## Related products

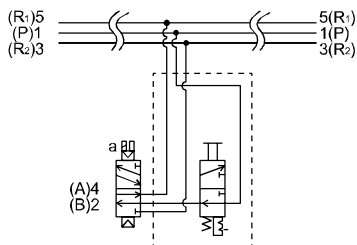
- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E  
MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/  
LMF0
- MN3S0  
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G  
GMF
- PV5  
GMF
- PV5S-0
- 3QR  
3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/  
NVP
- 4F\*0EX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

## Related products

### ● In-stop valve spacer



### JIS symbol



### Specifications

Model No.	P → A/B		A/B → R		Weight g
	C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
4G1	0.54	0.03	0.82	0.27	17
4G2	1.5	0.17	1.6	0.20	63
4G3	1.9	0.09	2.8	0.16	80

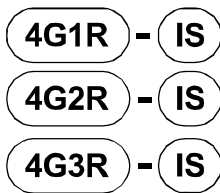
\*1: Values with base piping and 2-position valve mounted.

\*2: The effective cross-sectional area when discharging residual pressure is 1.0 mm<sup>2</sup> (reference value).

\*3: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .

Attachments: PR check valve 2, body gasket 1 (for 4G\*2 and 4G\*3)

### How to order discrete units



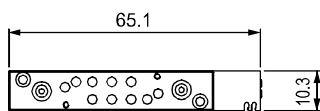
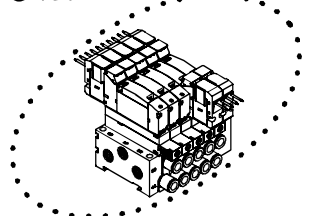
In-stop valve spacer

### ⚠ Precautions for model No. selection

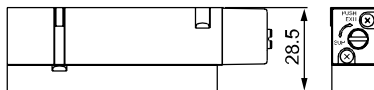
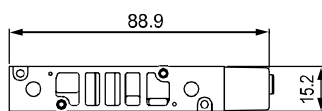
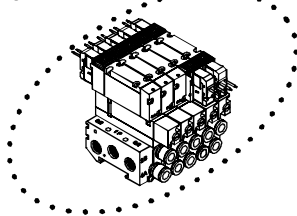
- \*1 : Specify the spacer mounting position and quantity in manifold specifications sheet.
- \*2 : If the A/B port fitting is the elbow (upward), turn the operation part of the in-stop valve spacer toward the reverse side ("a" solenoid side).
- \*3 : If the elbow (upward) A/B port fitting is used for the reduced wiring manifold, the in-stop valve spacer cannot be selected.
- \*4 : The in-stop valve spacer cannot be used with the external pilot (K).
- \*5 : When retrofitting to the reduced wiring manifold, the existing electric wire may be too short. Contact CKD for details.

### Dimensions

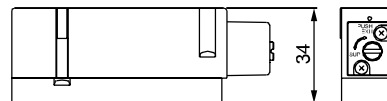
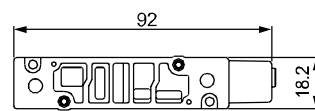
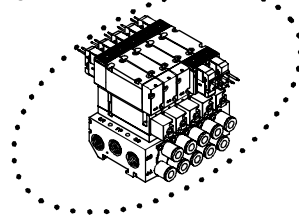
#### ● 4G1



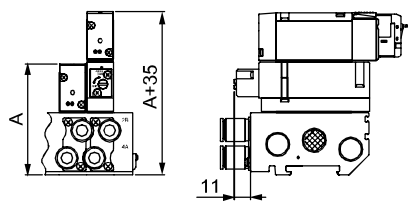
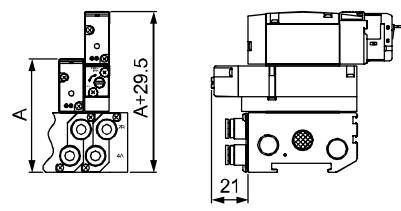
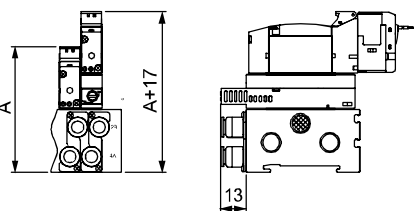
#### ● 4G2



#### ● 4G3



### Dimensions when mounted

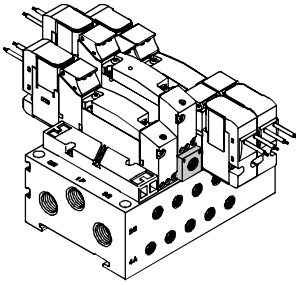


Note: For A dimensions, check the dimensions of respective specifications.



## Related products

### ● Air supply spacer



### Specifications

Model No.	P→A/B		A/B→R		Weight g
	C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
4G1	0.70	0.23	0.93	0.16	8
4G2	1.6	0.17	1.8	0.16	35
4G3	2.6	0.22	3.1	0.14	56

\*1: Values are when a valve is mounted.

\*2: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .

### How to order discrete units

#### ● Air supply spacer

Air supply spacer model No.

**4G** **3** **R** - **P** - **GWS10** **A**

**A** Air supply spacer model No.

**B** Port size  
\*1

**C** Set screw

#### Valve model No.

Code	Content	4GA1	4GB1	4GA2	4GB2	4GA3	4GB3
<b>A Air supply spacer model No.</b>							
1	For 4G1	●					
2	For 4G2			●			
3	For 4G3						●
<b>B Port size</b>							
Blank	M5 thread (4G1), Rc thread (4G2/4G3)	(1)	(2)	(3)			
GWS4	φ4 fitting	●					
GWS6	φ6 fitting	●		●			
GWS8	φ8 fitting			●		●	
GWS10	φ10 fitting						●
06N	1/8NPT			●			
08N	1/4NPT						●
06G	G1/8			●			
<b>C Set screw</b>							
Blank		●	●			●	
A	4GA3 A/B port: Rc1/4 thread					●	*2

is not available.

Attachments: Set screw 2 (\*2), PR check valve 2, body gasket 1

### ⚠ Precautions for model No. selection

\*1 Blank indicates (1) M5 (2) Rc1/8 (3) Rc1/4.

\*2 Specify "A" only when using with 4GA3\*9R-08 for mounting base. (The valve set screw length differs.)

\*3 Specify the air supply spacer mounting position and quantity in manifold specifications sheet of each catalog.

\*4 If the A/B port fitting is the elbow (upward), turn the air supply port of the air supply spacer toward the reverse side ("a" solenoid side).

\*5 If the elbow (upward) A/B port fitting is used for the reduced wiring manifold, the air supply spacer cannot be selected.

\*6 Combination with the masking plate is not supported.

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

# M4GA1 to 3/M4GB1 to 3 Series

Related products

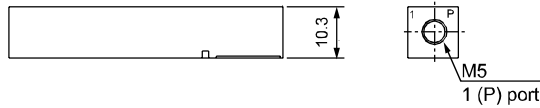
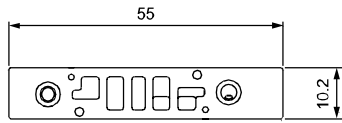
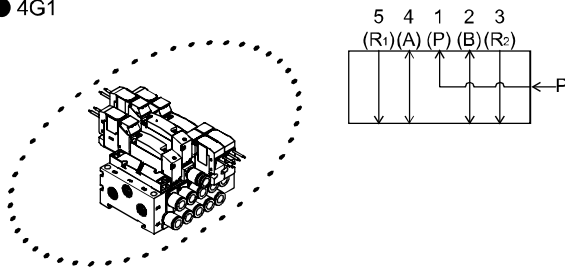
4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Slencer
TotAirSys (TotalAir)
TotAirSys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

## Related products

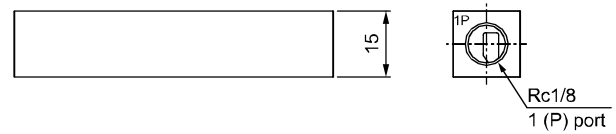
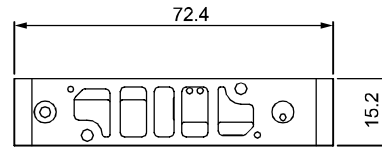
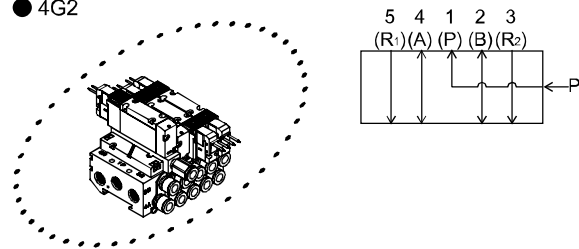
### ● Air supply spacer

### Dimensions

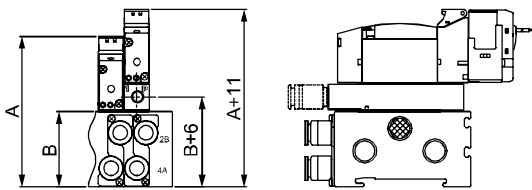
#### ● 4G1



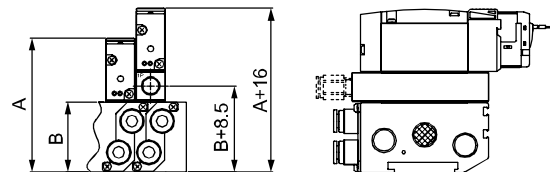
#### ● 4G2



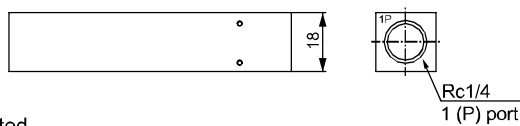
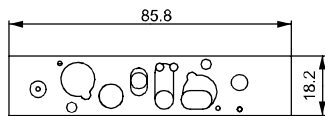
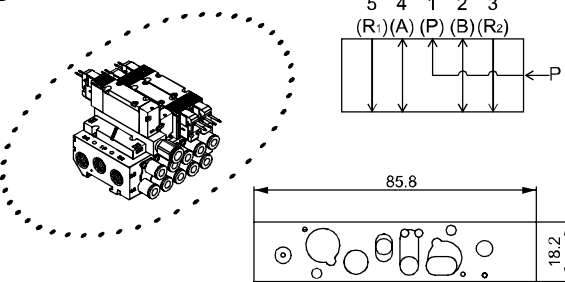
#### Dimensions when mounted



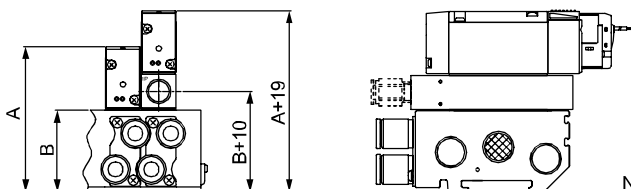
#### Dimensions when mounted



#### ● 4G3



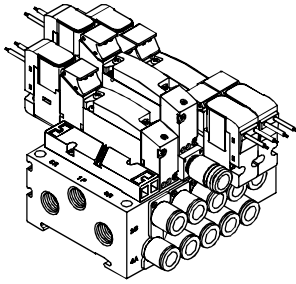
#### Dimensions when mounted



Note: For A and B dimensions, check the dimensions of respective specifications.

## Related products

### ● Exhaust spacer



### Specifications

Model No.	P→A/B		A/B→R		Weight g
	C[dm <sup>3</sup> /(s·bar)]	b	C[dm <sup>3</sup> /(s·bar)]	b	
4G1	0.94	0.28	0.68	0.33	7
4G2	1.5	0.24	1.9	0.24	34
4G3	3.4	0.21	2.9	0.27	58

\*1: Values are when a valve is mounted.

\*2: Effective cross-sectional area S and sonic conductance C are converted as  $S \approx 5.0 \times C$ .

### How to order discrete units

### ● Exhaust spacer

Exhaust spacer model No.

**4G** **3** **R** - **R** - **GWS10** **A**

**A** Air supply spacer model No.

**B** Port size  
\*1

**C** Set screw

### Valve model No.

Code	Content	4GA1	4GB1	4GA2	4GB2	4GA3	4GB3
<b>A Exhaust spacer model No.</b>							
<b>1</b>	For 4G1	●					
<b>2</b>	For 4G2			●			
<b>3</b>	For 4G3						●
<b>B Port size</b>							
<b>Blank</b>	M5 thread (4G1), Rc thread (4G2/4G3)	(1)	(2)	(3)			
<b>GWS4</b>	φ4 fitting	●					
<b>GWS6</b>	φ6 fitting	●	●				
<b>GWS8</b>	φ8 fitting			●	●		
<b>GWS10</b>	φ10 fitting					●	
<b>06N</b>	1/8NPT			●			
<b>06G</b>	G1/8			●			
<b>C Set screw</b>							
<b>Blank</b>		●	●	●			
<b>A</b>	4GA3 A/B port: Rc1/4 thread					● <sup>*2</sup>	

is not available.

Attachments: Set screw 2 (\*2), PR check valve 2, body gasket 1

### ⚠ Precautions for model No. selection

\*1 Blank indicates (1) M5 (2) Rc1/8 (3) Rc1/4.

\*2 Specify "A" only when using with 4GA3\*9R-08 for mounting base. (The valve set screw length differs.)

\*3 Specify the exhaust spacer mounting position and quantity in manifold specifications sheet of each catalog.

\*4 If the A/B port fitting is the elbow (upward), turn the exhaust port of the exhaust spacer toward the reverse side ("a" solenoid side).

\*5 If the elbow (upward) A/B port fitting is used for the reduced wiring manifold, the air exhaust spacer cannot be selected.

\*6 Combination with the masking plate is not supported.

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

# M4GA1 to 3/M4GB1 to 3 Series

Related products

4GA/B Related products

M4GA/B ● Exhaust spacer

MN4GA/B Dimensions

4GA/B (mastr) ● 4G1

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 ● 4G3

3MA/B0

3PA/B

P/M/B

NP/NAP/  
NVP

4F\*0EX

4F\*0E

HMV

HSV

2QV

3QV

SKH

PCD

Silencer

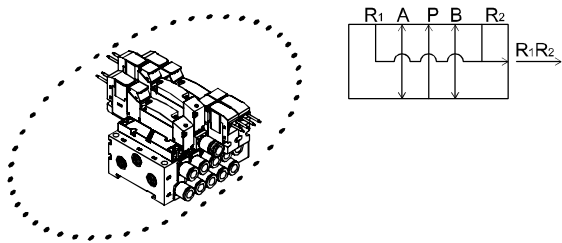
TotAirSys  
(TotalAir)

TotAirSys  
(Gamma)

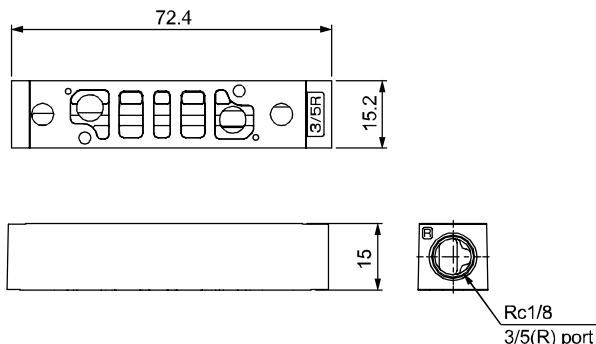
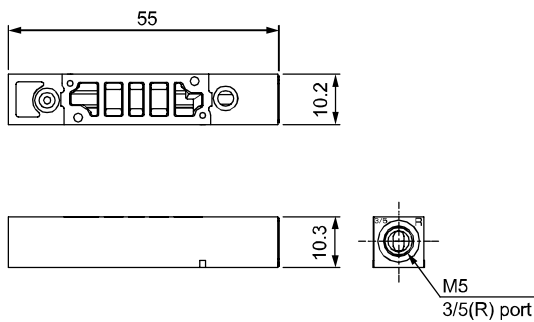
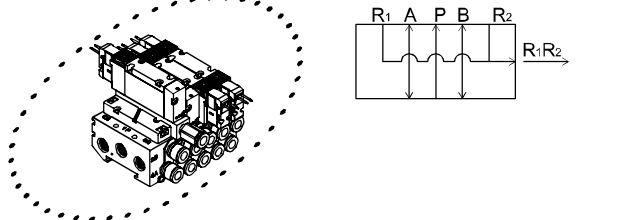
Ending

Dimensions

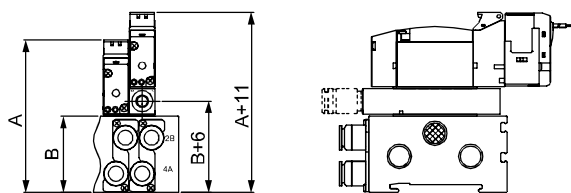
● 4G1



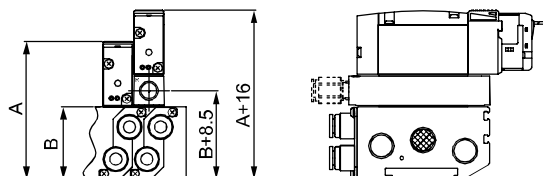
● 4G2



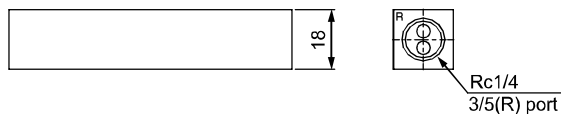
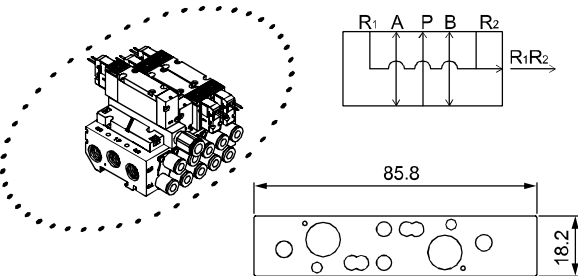
Dimensions when mounted



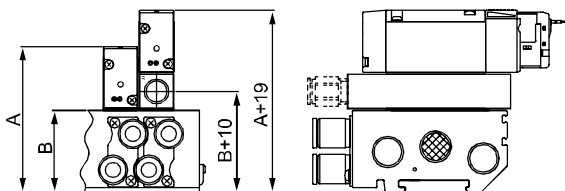
Dimensions when mounted



● 4G3



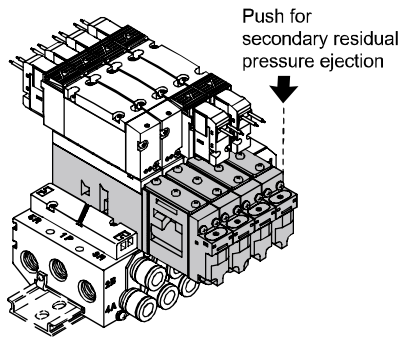
Dimensions when mounted



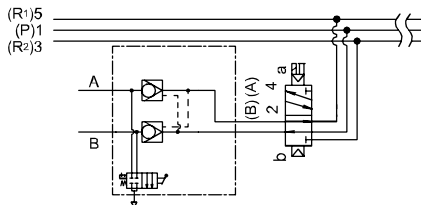
Note: For A and B dimensions, check the dimensions of respective specifications.

## Related products

### ● Spacer pilot check valve



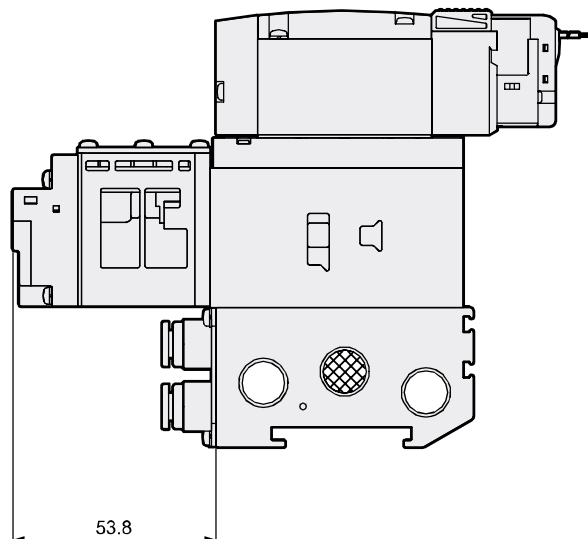
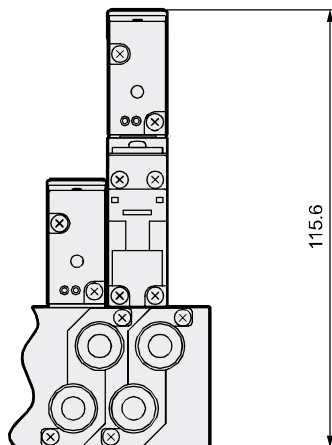
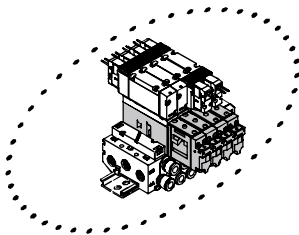
### JIS symbol



Note: Using a large bore size cylinder (roughly  $\phi 50$  and over) with little restriction on the exhaust side (e.g., without speed controller or silencer) may lower the intermediate stopping accuracy or cause a braking error.

### Dimensions

#### ● M4GB2

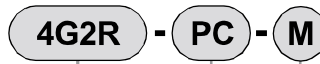


### Specifications

Spacer pilot check valve	4G2R-PC-M
Working fluid	Compressed air
Max. working pressure	MPa 0.7 ( $\approx 100$ psi, 7 bar)
Min. working pressure	MPa 0.2 ( $\approx 29$ psi, 2 bar)
Proof pressure	MPa 1.05 ( $\approx 150$ psi, 10.5 bar)
Effective cross-sectional area	mm <sup>2</sup> 4 (With solenoid valve)
Ambient temperature	°C -5 (23°F) to 55 (131°F) (no freezing)
Working fluid temperature	°C 5 (41°F) to 55 (131°F)
Lubrication	*1 Not required
Atmosphere	Cannot be used in corrosive gas environment.
Weight	g 182.5

\*1: Use turbine oil Class 1 ISO VG32 for lubrication.  
Note that excessive lubricant may cause unstable operation.

### Discrete model No.



Model No.

With residual pressure release function  
Spacer pilot check valve

### ⚠ Precautions for model No. selection

- \*1 : Specify the spacer positions in the manifold specifications sheet.
- \*2 : Spacer pilot check valve is not available when the fitting for port A/B is elbow.
- \*3 : Stacking of spacers is not possible.
- \*4 : A spacer cannot be combined with a masking plate.
- \*5 : The spacer pilot check valve can be mounted only when the base piping method is base 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
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

# M4GA1 to 3/M4GB1 to 3 Series

Related products

4GA/B

## Related products

M4GA/B

### ● Pilot check valve

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

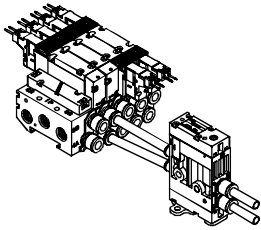
Slencer

TotAirSys

(TotalAir)

(Gamma)

Ending



### How to order

● Discrete model No.

**4G2R - PCS - C4**

● Manifold model No.

**M4G2R - PCS - C4 - 5**

Model No.

Pilot check valve

Ⓐ Port size \*1

Ⓑ Option \*2

Ⓒ Station No.

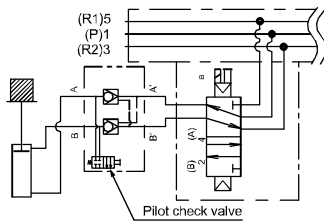
### Specifications

Descriptions	4G2R-PCS-*.*
Effective cross-sectional area	mm <sup>2</sup> 11
Weight	g 200

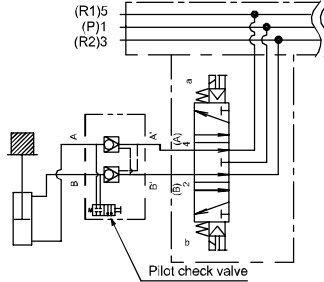
Code	Content	
<b>Ⓐ Port size</b>		
	Valve side port	Cylinder side port
<b>C4</b>	φ4 Push-in fitting	φ4 Push-in fitting
<b>C6</b>	φ6 Push-in fitting	φ6 Push-in fitting
<b>C8</b>	φ8 Push-in fitting	φ8 Push-in fitting
<b>CL6</b>	φ6 Push-in fitting	φ6 L type push-in fitting (upward)
<b>CL8</b>	φ8 Push-in fitting	φ8 L type push-in fitting (upward)
<b>Ⓑ Option</b>		
<b>Blank</b>	None	
<b>F</b>	A/B-port filter built in	
<b>M</b>	Manual non-locking	
<b>D</b>	DIN rail mount	
<b>Ⓒ Station No.</b>		
<b>2</b>	2 stations	
<b>to</b>	to	
<b>10</b>	10 stations	

### JIS symbol

(Position locking)



(Stopping)



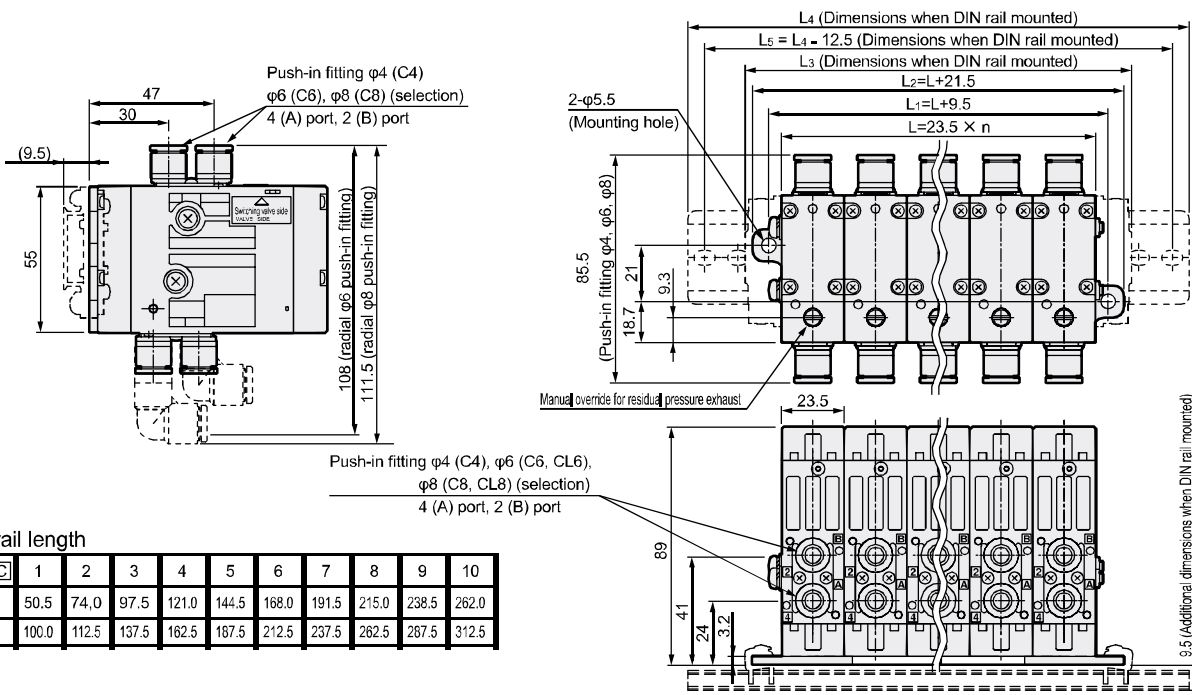
Example of leak comparison  
All ports closed (solenoid) valve  
10 cm<sup>3</sup>/min or less  
Pilot check valve (4G2R-PCS)  
0 to 0.3 cm<sup>3</sup>/min

⚠ Depending on use conditions, the pilot check valve body may emit resonance noise due to the air flow when the cylinder operates, but this is not an abnormality. Adjust the pipe length and bore size in that case.

### ⚠ Precautions for model No. selection

- \*1 : Contact CKD for information on mixing port sizes.
- \*2 : The following applies when Blank is selected as an option.  
Manual override : Non-locking/locking common type,  
Mounting method : Direct mounting.

## Dimensions



### DIN rail length

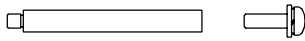
Station No.	Ⓒ	1	2	3	4	5	6	7	8	9	10
L3		50.5	74.0	97.5	121.0	144.5	168.0	191.5	215.0	238.5	262.0
L4		100.0	112.5	137.5	162.5	187.5	212.5	237.5	262.5	287.5	312.5

## Related products

● Tie rod kit (for pilot check valve)

(For manifold connection and expansion)

**4G2R - PCS - TR - V1**



**A Type**  
\*1

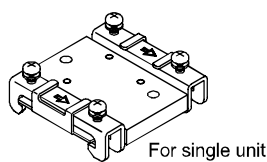
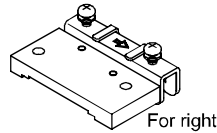
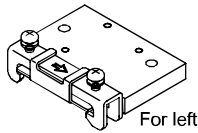
A Type	
V1	For 1 station
V2	For 2 stations
V3	For 3 stations
V4	For 4 stations
V5	For 5 stations

**⚠ Precautions for model No. selection**

\*1: Select the V1 to V5 combination when using six or more stations.

● DIN rail adaptor kit (for pilot check valve)

(The DIN rail adaptor kit is required for the following reassembly)



**4G2R - PCS - D1**

**A Type**

Code	Descriptions	DIN rail adaptor kit selection list based on changes in specifications				Content
		Change from mounting plate to DIN rail	Add/Remove stations with DIN rail mount			
		For 1 station	2 or more stations	≥2 stations → 1 station	1 station → ≥2 stations	
D1	For right				● (*2)	DIN rail adaptor (right) 1, thread 2
D2	Right + left		●			DIN rail adaptor (right) 1, DIN rail adaptor (left) 1, thread 4
D3	For single unit	●		●		DIN rail adaptor (single unit) 1, thread 2

\*2: When changing from 1 station to 2 or more stations, purchase the DIN rail adaptor for right (D1), and remove the retainer on one side of the current DIN rail adaptor kit (D3).

● Push-in cartridge fitting

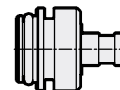
φ1.8 axial

4G1R-JOINT-**CL18**



φ1.8 barbed

4G1R-JOINT-**CF**

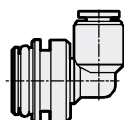


φ1.8L/φ4L/φ6L/φ8L/φ10L type (short elbow)

4G1R-JOINT-**CL18**/**CL4**/**CL6**

4G2R-JOINT-**CL6**/**CL8**

4G3R-JOINT-**CL8**/**CL10**

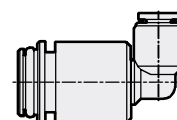


φ1.8L/φ4L/φ6L/φ8L/φ10L type (long elbow)

4G1R-JOINT-**CLL18**/**CLL4**/**CLL6**

4G2R-JOINT-**CLL6**/**CLL8**

4G3R-JOINT-**CLL8**/**CLL10**



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

# M4GA1 to 3/M4GB1 to 3 Series

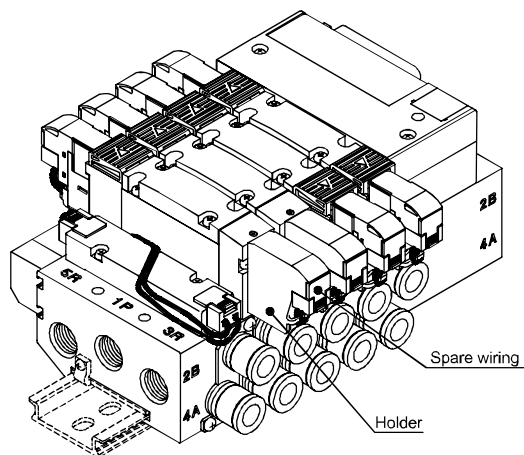
Related products

- 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
- Slencer
- TotAirSys  
(TotalAir)
- TotAirSys  
(Gamma)
- Ending

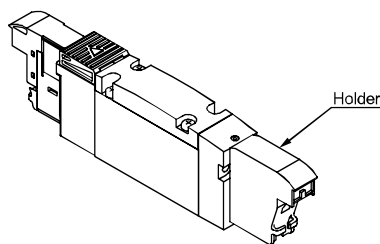
## Related products

### ● Double wiring (single spare wiring)

For manifolds



For single valves (A2N)



A holder for retaining the socket assembly is included. (Not included for A type sockets.)

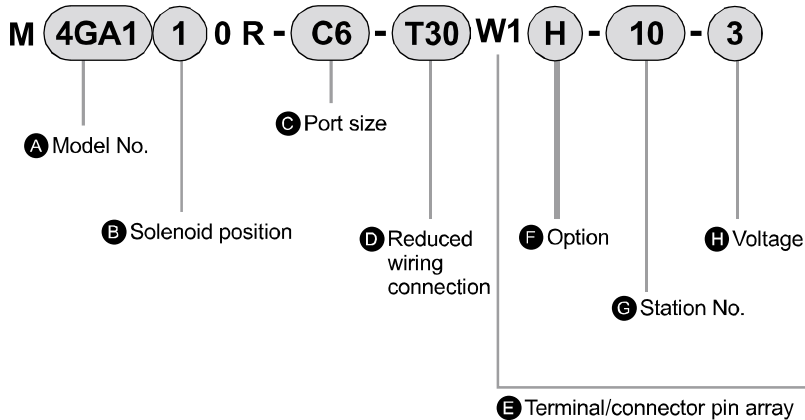
This can be used to hold the socket assembly no longer required when changing the valve from a double solenoid to a single solenoid.

Spare wiring (holder and A type socket assembly) is included on the cap side for single solenoid valves.

This simplifies the workflow when changing valves from a single solenoid to a double solenoid, as you do not need to prepare the A type socket assembly separately.

### Example of model No.

#### ● Manifold model No. (example)



Code	Content
<b>E</b>	Terminal/connector pin array
<b>W1</b>	Double wiring (with single spare wiring)

\* Refer to How to order for each series for details about model numbers.



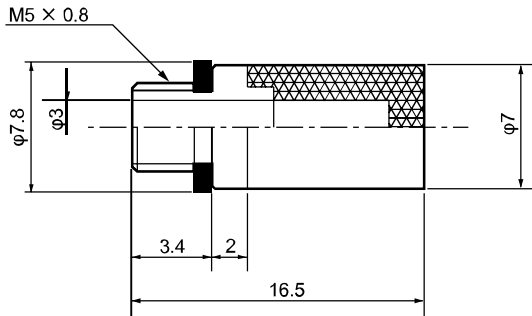
# M4GA1 to 3/M4GB1 to 3 Series

Related products

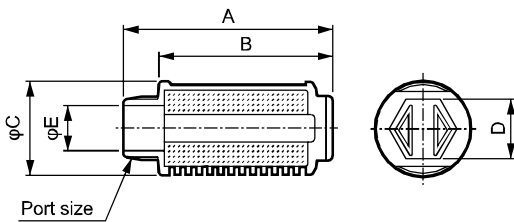
## Related products

### ● Silencer

#### ● SLM-M5



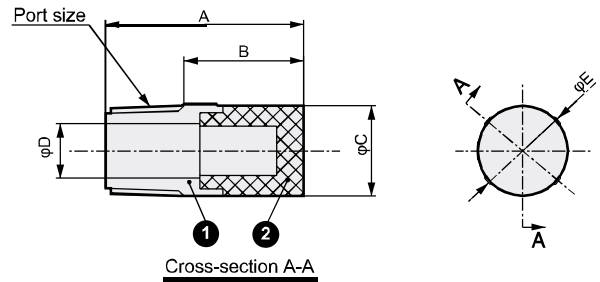
#### ● SLW-6A, 8A, 10A, 10L



- \*1: Select the silencer mounting after confirming the dimensions.
  - \*2: Use SLW-8S for the M4GA2
- DIN rail mount. Interference occurs if SLW-8A is used.

Code	Noise reduction effect dB (A)	Eff. X-sectional area mm <sup>2</sup>	A	B	C	D	E	Port size
SLW-6A	30 or more	10	34.5	28	16.5	10	7	R1/8
SLW-8A	30 or more	20	44.5	36	20	13	8.5	R1/4
SLW-10A	30 or more	30	58.5	48.5	25.5	17	12	R3/8
SLW-10L	30 or more	60	68.2	58.4	28	19	12	R3/8

#### ● SLW-6S, 8S



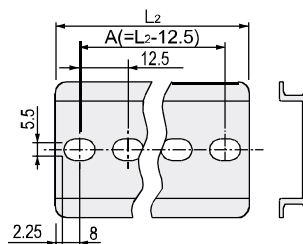
Model No.	Port size	A	B	C	D	E
SLW-6S	R1/8	22	13.3	10.5	6	10.5
SLW-8S	R1/4	28	19	14.8	9	15.4

### ● Plug

Part name	Model No.	For bore size	Appearance
Blanking plug	PG-P2-B	φ1.8	
	GWP4-B	φ4	
	GWP6-B	φ6	
	GWP8-B	φ8	
	GWP10-B	φ12	
Thread plug	4G1R-M5P	M5	
	4G2R-06P	Rc1/8	
	4G3R-08P	Rc1/4	
	4G3R-10P	Rc3/8	
	4G2R-06NP	NPT1/8	
	4G3R-08NP	NPT1/4	
	4G3R-10NP	NPT3/8	
	4G2R-06GP	G1/8	
	4G3R-08GP	G1/4	
	4G3R-10GP	G3/8	

### ● DIN rail

**N4GR-BAA L2**  
Rail length



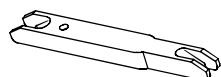
- \*1: Rail lengths not included in the list are custom order products.

L <sub>1</sub> : Manifold length	L <sub>2</sub> : Rail length	A: Mounting pitch
35	47.5 or less	75
Over 47.5	60 or less	87.5
60	72.5	100
72.5	85	112.5
85	97.5	125
97.5	110	137.5
110	122.5	150
122.5	135	162.5
135	147.5	175
147.5	160	187.5
160	172.5	200
172.5	185	212.5
185	197.5	225
197.5	210	237.5
210	222.5	250
222.5	235	262.5
235	247.5	275
247.5	260	287.5
260	272.5	300
272.5	285	312.5
285	297.5	325
297.5	310	337.5
310	322.5	350
322.5	335	362.5
335	347.5	375
347.5	360	387.5
360	372.5	400
372.5	385	412.5
385	397.5	425
397.5	410	437.5
410	422.5	450
422.5	435	462.5
435	447.5	475
447.5	460	487.5
460	472.5	500
472.5	485	512.5
485	497.5	525
497.5	510	537.5

If the length exceeds 510, calculate using a multiple of 12.5.

### ● Push-in fitting tube remover

For φ1.8/φ4 push-in fitting  
4GR-EOT18-4



For φ4/φ6 push-in fitting  
4GR-EOT4-6

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

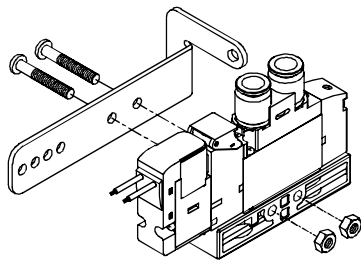
# M4GA1 to 3/M4GB1 to 3 Series

Related parts

- 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  
(TotalAir)
- TotAirSys  
(Gamma)
- Ending

## Related parts

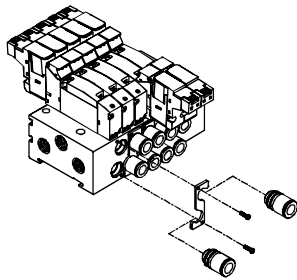
### (1) Mounting plate (P) kit



Mounting (P) kit

Model	Kit model No.	Set parts
3GA1/4GA1	4G1R-MOUNT-PLATE-KIT	Mounting plate, set screw 2, nut 2
3GA2/4GA2	4G2R-MOUNT-PLATE-KIT	Mounting plate, set screw 2
3GA3/4GA3	4G3R-MOUNT-PLATE-KIT	Mounting plate, set screw 2

### (2) Single cartridge push-in fitting related part



Fitting stopper plate kit

Model	Kit model No.
M4G1	4G1R-JNT-STP-PLATE-KIT*1
M4G2	4G2R-JNT-STP-PLATE-KIT*2
M4G3	4G3R-JNT-STP-PLATE-KIT

\*1: Specify "C8" for C8 types.

\*2: Specify "C10" for C10 types.

### (3) Adaptor related kit

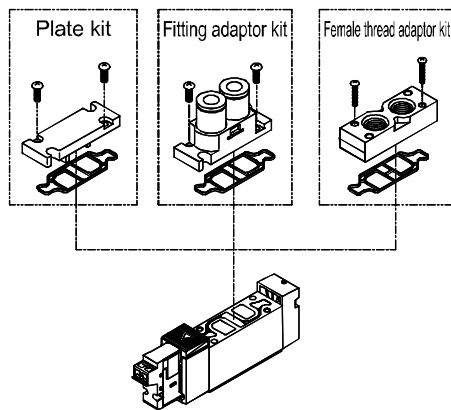


Plate kit

Model	Kit model No.	Set parts
3GB1/4GB1	4G1R-PLATE-KIT	Plate, gasket, set screw 2
3GB2/4GB2	4G2R-PLATE-KIT	Plate, gasket, set screw 2
4GB3	4G3R-PLATE-KIT	Plate, gasket, set screw 2

### Fitting adaptor kit

**4G1** R-JNT-ADAPTOR-KIT - **C4** **NC** - **F**

**A** Model No.

**B** Port size

**C** NC/NO

**D** Option

	<b>A Model No.</b>					
	3G1	3G2	3G3	4G1	4G2	4G3
<b>B Port size</b>						
<b>CF</b>	φ1.8 barbed	●				
<b>C18</b>	φ1.8 straight	●				
<b>C4</b>	φ4 straight	●	●		●	
<b>C6</b>	φ6 straight	●	●	●	●	●
<b>C8</b>	φ8 straight		●	●	●	●
<b>C10</b>	φ10 straight			●		●
<b>C3N</b>	φ1/8" straight	●			●	
<b>C4N</b>	φ5/32" straight	●			●	
<b>C6N</b>	φ1/4" straight		●		●	
<b>C8N</b>	φ5/16" straight		●	●	●	●
<b>C10N</b>	φ3/8" straight			●		●
<b>C NC/NO</b>						
<b>NC</b>	For 3GA□10	●	●	●		
<b>N0</b>	For 3GA□110	●	●	●		
<b>Blank</b>	Other than 3GA□10 or 3GA□110	●	●		●	●
<b>D Option</b>						
<b>Blank</b>		●	●	●	●	●
<b>F</b>	A/B-port filter built in	●	●	●	●	●

Note: Fitting adaptor (with fitting), gasket and set screws (2 pieces) are in a set.

### Female thread adaptor kit

Model	Kit model No.	Set parts
3GA1/4GA1	4G1R-FML-ADAPTOR-KIT- <u>bore size</u> - <u>option</u>	Female thread adaptor, gasket, set screw 2
3GA2/4GA2	4G2R-FML-ADAPTOR-KIT- <u>bore size</u> - <u>option</u>	Female thread adaptor, gasket, set screw 2
3GA3/4GA3	4G3R-FML-ADAPTOR-KIT- <u>bore size</u> - <u>option</u>	Female thread adaptor, gasket, set screw 2, body set screw 2

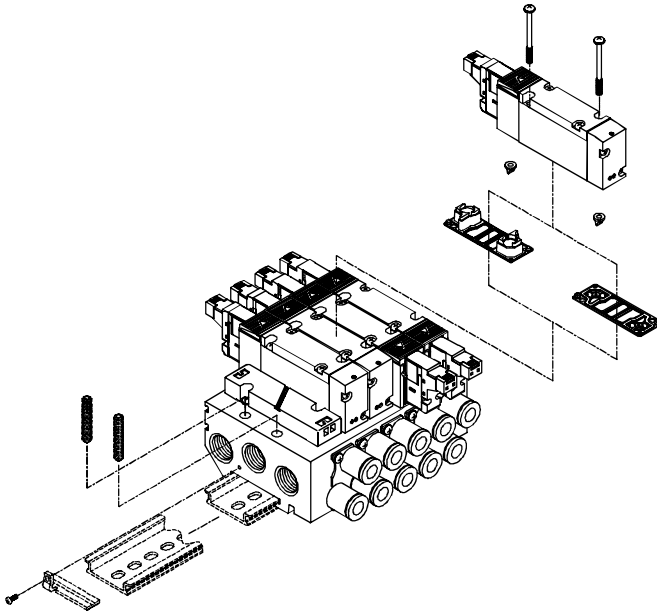
Specify the option "F" when using the A/B port filter integrated.

# M4GA1 to 3/M4GB1 to 3 Series

Related parts

## Related parts

### (4) Manifold related parts



#### Masking plate kit

Model	Model No.	Content	Remarks
M3G1/M4G1	4G1R-MP	Masking plate Gasket Mounting screws 2	* 3G3/4G3 have two PR check valves.
M3G2/M4G2	4G2R-MP		
M3G3/M4G3	4G3R-MP		

#### Gasket

Model	Part model No.
3G1/4G1	4G1R-GASKET
3G1/4G1 (For masking plate)	4G1R-MP-GASKET
3G2/4G2	4G2R-GASKET
3G2/4G2 (For masking plate)	4G2R-MP-GASKET
3G3/4G3	4G3R-GASKET

#### Gasket with exhaust check valve

Model	Part model No.
3G1/4G1	4G1R-CHECK-VALVE
3G2/4G2	4G2R-CHECK-VALVE
3G3/4G3	4G3R-CHECK-VALVE

#### PR check valve kit (2 per set)

Model	Kit model No.
3G1/4G1	4G1R-PR
3G2/4G2	4G2R-PR
3G3/4G3	4G3R-PR

#### Mounting screw (10 per set)

Model	Part model No.
3G1/4G1	4G1R-SET-SCREW
3G2/4G2	4G2R-SET-SCREW
3G3/4G3	4G3R-SET-SCREW
3GA3/4GA3 (for 08 bore size)	4G3R-SET-SCREW-L

#### DIN rail kit

Model	Model No.	Content
M4G1	4GA1R-BAA [length] - [option] D	DIN rail, set screw 2, Lock nut 2
	4GB1R-BAA [length] - [option] D	
M4G2	4GA2R-BAA [length] - [option] D	DIN rail/holder 2 tapping screw 2, set screw 4
	4GB2R-BAA [length] - [option] D	
M4G3	4GA3R-BAA [length] - [option] D	
	4GB3R-BAA [length] - [option] D	

Specify the length "0" when the DIN rail is not required.  
Specify the [option] "K" when using with the manifold base for external pilot.

Set the DIN rail length, referring to the working manifold dimensions and DIN rail length quick reference list (page 303).

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

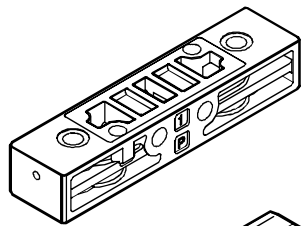
# M4GA1 to 3/M4GB1 to 3 Series

Related parts

- 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  
(TotalAir)
- TotAirSys  
(Gamma)
- Ending

## Related parts

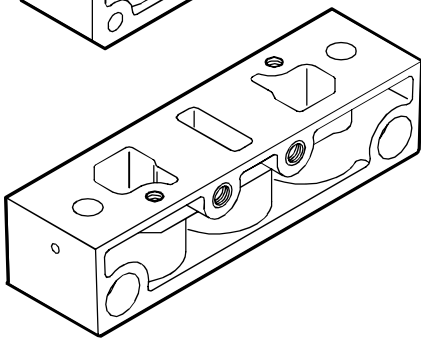
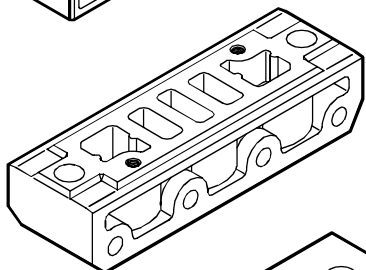
### (5) Sub-plate



4GA Pipe adaptor

**4G1 R-ADAPTOR - M5**

**A** Model No.



**B** Port size

**C** Option

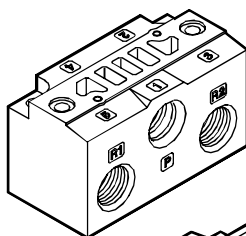
A Model No.					
3G1	3G2	3G3	4G1	4G2	4G3

B Port size (P/R1/R2 port)		A Model No.					
Port size	Thread	3G1	3G2	3G3	4G1	4G2	4G3
M5	M5	●			●		
06	Rc1/8		●			●	
08	Rc1/4			●			●
06N	1/8NPT		●			●	
08N	1/4NPT			○			○
06G	G1/8		●			●	

C Option		A Model No.					
Option	Description	3G1	3G2	3G3	4G1	4G2	4G3
P	With mounting plate (attachment)	●	●	●	●	●	●

■ is not available.

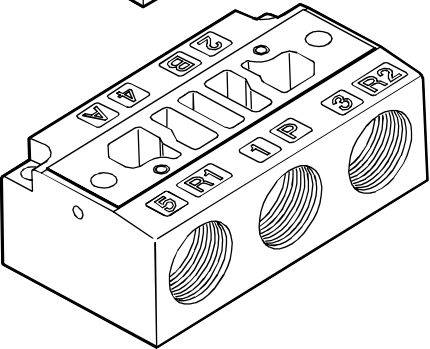
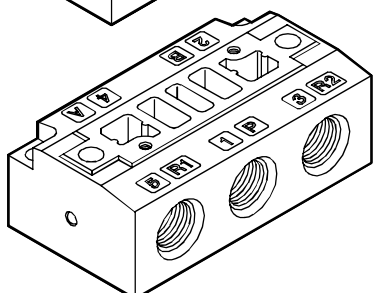
○ indicates a custom order.



4GB single sub-plate

**4G1 R-SUB-BASE - 06**

**A** Model No.



**B** Port size

**C** Option

A Model No.				
3G1	3G2	4G1	4G2	4G3

B Port size (A/B/P/R1/R2 port)		A Model No.				
Port size	Thread	3G1	3G2	4G1	4G2	4G3
06	Rc1/8	●		●		
08	Rc1/4		●		●	●
10	Rc3/8					●
06N	1/8NPT		○		○	
08N	1/4NPT			○		○
10N	3/8NPT					○
06G	G1/8		○		○	
08G	G1/4			○		○

C Option		A Model No.				
Option	Description	3G1	3G2	4G1	4G2	4G3
K	External pilot			●	●	●
F	A/B port filter built in *1	●	●	●	●	●

\*1: A filter is built into the P port as standard.

■ is not available.

○ indicates a custom order.

# M4GA1 to 3/M4GB1 to 3 Series

Related parts

## Related parts

### (6) Manifold sub-plate kit individual wiring

● M4GA Sub-plate

**M4GA1R-00- - 2**

**A** Model No.

**B** Port size  
\*1

**C** Option

**D** Station No.

● M4GB1 Sub-plate

**M4GB1R-CL4- - D-2**

**A** Port size

**B** Option

**C** Mount

**D** Station No.

Code	Content
<b>A Model No.</b>	
<b>M4GA1</b>	Metal base, 4G1 size, body piping
<b>M4GA2</b>	Metal base, 4G2 size, body piping
<b>M4GA3</b>	Metal base, 4G3 size, body piping
<b>B Port size</b>	
<b>00</b>	Rc thread
<b>00N</b>	NPT thread
<b>00G</b>	G thread
<b>C Option</b>	
<b>Blank</b>	
<b>K</b>	External pilot
<b>D Station No.</b>	
<b>2</b>	2 stations
<b>to</b>	to
<b>20</b>	Refer to the specifications page for the max. station number.

\*1: This is P/R1/R2 port size.

Code	Content	
<b>A Port size</b>		
<b>Port</b>	<b>4(A), 2(B) port</b>	<b>P/R1/R2 port</b>
<b>CF</b>	φ1.8 barbed fitting (compatible tube UP-9102-**)	Rc1/8
<b>C18</b>	φ1.8 push-in fitting (compatible tube UP-9402-**)	
<b>C4</b>	φ4 push-in fitting	
<b>C6</b>	φ6 push-in fitting	
<b>C8</b>	φ8 push-in fitting *1	
<b>CL18</b>	Radial φ1.8 push-in fitting upward (compatible tube UP-9402-**) *1	
<b>CL4</b>	Radial φ4 push-in fitting (upward)	
<b>CL6</b>	Radial φ6 push-in fitting (upward)	
<b>CD18</b>	Radial φ1.8 push-in fitting downward (compatible tube UP-9402-**) *1	
<b>CD4</b>	Radial φ4 push-in fitting (downward)	
<b>CD6</b>	Radial φ6 push-in fitting (downward)	
<b>M5</b>	M5	
<b>Port</b>	<b>4(A), 2(B) port</b>	<b>P/R1/R2 port</b>
<b>C3N</b>	φ1/8" push-in fitting	1/8NPT
<b>C4N</b>	φ5/32" push-in fitting	
<b>CL3N</b>	Radial φ1/8" push-in fitting (upward) *1	
<b>CL4N</b>	Radial φ5/32" push-in fitting (upward) *1	
<b>M5N</b>	M5	
<b>Port</b>	<b>4(A), 2(B) port</b>	<b>P/R1/R2 port</b>
<b>C4G</b>	φ4 push-in fitting	G1/8
<b>C6G</b>	φ6 push-in fitting	
<b>CL4G</b>	Radial φ4 push-in fitting (upward) *1	
<b>CL6G</b>	Radial φ6 push-in fitting (upward) *1	
<b>M5G</b>	M5	
<b>B Option</b>		
<b>Blank</b>		
<b>K</b>	External pilot	
<b>F</b>	A/B port filter built in *2	
<b>C Mount</b>		
<b>Blank</b>	Direct mount	
<b>D</b>	DIN rail mount *3	
<b>D Station No.</b>		
<b>2</b>	2 stations	
<b>to</b>	to	
<b>20</b>	Refer to the specifications page for the max. station number.	

\*1: Available as custom order.

\*2: A filter is built into the P-port as standard.

\*3: The DIN rail kit needs to be prepared separately.

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

# M4GA1 to 3/M4GB1 to 3 Series

Related parts

## Related parts

(6) Manifold sub-plate kit individual wiring

● M4GB2/M4GB3 Sub-plate



**B** Port size

**C** Option

**D** Station No.

		<b>A</b> Model No.	
		M4GB2	M4GB3
Code	Content		
<b>B</b> Port size			
Port	4(A), 2(B) port	P/R1/R2 port (1) = Rc 1/4 (2) = Rc 3/8	
C4	φ4 push-in fitting	(1)	
C6	φ6 push-in fitting	(1)	(2)
C8	φ8 push-in fitting	(1)	(2)
C10	φ10 push-in fitting *1	(1)	(2)
CL6	Radial φ6 push-in fitting (upward)	(1)	
CL8	Radial φ8 push-in fitting (upward)	(1)	(2)
CL10	Radial φ10 push-in fitting (upward)		(2)
CD6	Radial φ6 push-in fitting (downward)	(1)	
CD8	Radial φ8 push-in fitting (downward)	(1)	(2)
CD10	Radial φ10 push-in fitting (downward)		(2)
06	Rc1/8	(1)	
08	Rc1/4		(2)
Port	4(A), 2(B) port	P/R1/R2 port (3) = 1/4NPT, (4) = 3/8NPT	
C6N	φ1/4" push-in fitting	(3)	
C8N	φ5/16" push-in fitting	(3)	(4)
C10N	φ3/8" push-in fitting		(4)
CL6N	Radial φ1/4" push-in fitting (upward) *1	(3)	
CL8N	Radial φ5/16" push-in fitting (upward) *1	(3)	
06N	1/8NPT	(3)	
08N	1/4NPT *1		(4)
Port	4(A), 2(B) port	P/R1/R2 port (5) = G1/4	
C4G	φ4 push-in fitting	(5)	
C6G	φ6 push-in fitting	(5)	
C8G	φ8 push-in fitting	(5)	
CL6G	Radial φ6 push-in fitting (upward) *1	(5)	
CL8G	Radial φ8 push-in fitting (upward) *1	(5)	
06N	G1/8	(5)	

<b>C</b> Option	
Blank	
K	External pilot
F	A/B port filter built in *2

<b>D</b> Station No.	
2	2 stations
to	to
20	Refer to the specifications page for the max. station number.

\*1: Available as custom order.

\*2: A filter is built into the P port as standard.

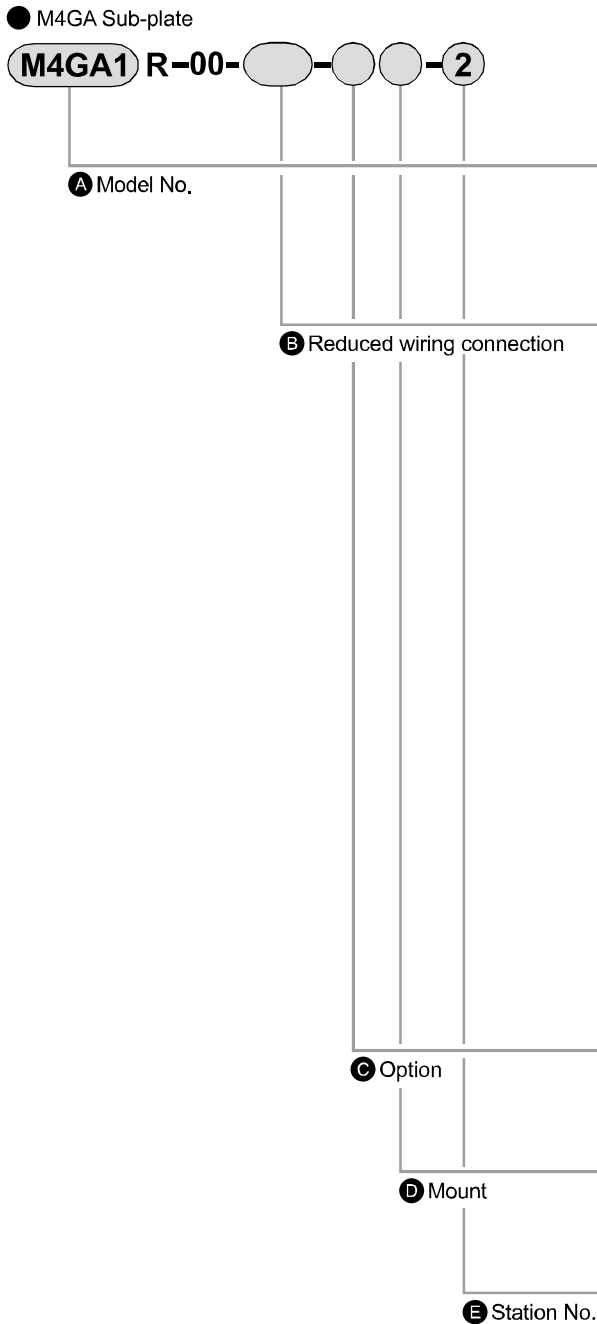
- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E  
MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/  
LMF0
- MN3S0  
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G  
GMF
- PV5  
GMF
- PV5S-0
- 3QR  
3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/  
NVP
- 4F\*0EX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

# M4GA1 to 3/M4GB1 to 3 Series

Related parts

## Related parts

### (7) Manifold sub-plate kit reduced wiring



Code	Content	
<b>A Model No.</b>		
<b>M4GA1</b>	Metal base, 4G1 size, body piping	
<b>M4GA2</b>	Metal base, 4G2 size, body piping	
<b>M4GA3</b>	Metal base, 4G3 size, body piping	
<b>B Reduced wiring connection</b>		
<b>T10</b>	Common terminal block (M3 thread)	Left-side spec
<b>T10R</b>		Right-side spec
<b>T11</b>	Common terminal block (clamping)	Left-side spec
<b>T11R</b>		Right-side spec
<b>T30</b>	D sub-connector	Left-side spec
<b>T30R</b>		Right-side spec
<b>T50</b>	20-pin flat cable connector (with power supply terminal)	Left-side spec
<b>T50R</b>		Right-side spec
<b>T51</b>	20-pin flat cable connector (without power supply terminal)	Left-side spec
<b>T51R</b>		Right-side spec
<b>T52</b>	10-pin flat cable connector (without power supply terminal)	Left-side spec
<b>T52R</b>		Right-side spec
<b>T53</b>	26-pin flat cable connector (without power supply terminal)	Left-side spec
<b>T53R</b>		Right-side spec
<b>T56</b>	20-pin flat cable connector (without power supply terminal) For serial transmission OPP3 slave unit	Left-side spec
<b>T81</b>	For serial transmission slave unit OPP7 connection 16 points	Left-side spec
<b>T82</b>	For serial transmission slave unit OPP7 connection 32 points	Left-side spec
<b>C Option</b>		
<b>Blank</b>		
<b>K</b>	External pilot	
<b>D Mount</b>		<b>*1</b>
<b>Blank</b>	Direct mount	
<b>D</b>	DIN rail mount	<b>*2</b>
<b>E Station No.</b>		
<b>2</b>	2 stations	
<b>to</b>	to	
<b>20</b>	Refer to the specifications page for the max. station number.	

\*1: Select the mount for T8 with M4GA2R and M4GA3R types.

\*2: The DIN rail must be prepared separately.

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

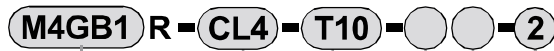
# M4GA1 to 3/M4GB1 to 3 Series

Related parts

## Related parts

(7) Manifold sub-plate kit reduced wiring

● M4GB Sub-plate



A Model No.

B Port size

C Reduced wiring connection

D Option

E Mount

F Station No.

Code	Content	A Model No.		
		M4GB1	M4GB2	M4GB3
<b>B Port size</b>		<b>P/R1/R2 port</b> (1) = Rc1/8, (2) = Rc1/4, (3) = Rc3/8		
<b>Port</b>	<b>4(A), 2(B) port</b>			
CF	φ1.8 barbed fitting (compatible tube UP-9102-**)	(1)		
C18	φ1.8 push-in fitting (compatible tube UP-9402-**)	(1)		
C4	φ4 push-in fitting	(1)	(2)	
C6	φ6 push-in fitting	(1)	(2)	(3)
C8	φ8 push-in fitting	(1)	(2)	(3)
C10	φ10 push-in fitting		(2)	(3)
CL18	Radial φ1.8 push-in fitting upward (compatible tube UP-9402-**)	(1)		
CL4	Radial φ4 push-in fitting (upward)	(1)		
CL6	Radial φ6 push-in fitting (upward)	(1)	(2)	
CL8	Radial φ8 push-in fitting (upward)		(2)	(3)
CL10	Radial φ10 push-in fitting (upward)			(3)
CD18	Radial φ1.8 push-in fitting downward (compatible tube UP-9402-**)	(1)		
CD4	Radial φ4 push-in fitting (downward)	(1)		
CD6	Radial φ6 push-in fitting (downward)	(1)	(2)	
CD8	Radial φ8 push-in fitting (downward)		(2)	(3)
CD10	Radial φ10 push-in fitting (downward)			(3)
M5	M5	(1)		
06	Rc1/8		(2)	
08	Rc1/4			(3)

C Reduced wiring connection		
T10	Common terminal block (M3 thread)	Left-side spec
T10R		Right-side spec
T11	Common terminal block (clamping)	Left-side spec
T11R		Right-side spec
T30	D sub-connector	Left-side spec
T30R		Right-side spec
T50	20-pin flat cable connector (with power supply terminal)	Left-side spec
T50R		Right-side spec
T51	20-pin flat cable connector (without power supply terminal)	Left-side spec
T51R		Right-side spec
T52	10-pin flat cable connector (without power supply terminal)	Left-side spec
T52R		Right-side spec
T53	26-pin flat cable connector (without power supply terminal)	Left-side spec
T53R		Right-side spec
T56	20-pin flat cable connector (without power supply terminal) For serial transmission OPP3 slave unit	Left-side spec
T8	For serial transmission slave unit OPP7 connection	Left-side spec
D Option		
Blank		
K	External pilot	
F	A/B port filter built in	*1
E Mount		*2
Blank	Direct mount	
D	DIN rail mount	*3
F Station No.		
2	2 stations	
to	to	
20	Refer to the specifications page for the max. station number.	

\*1: A filter is built into the P port as standard.

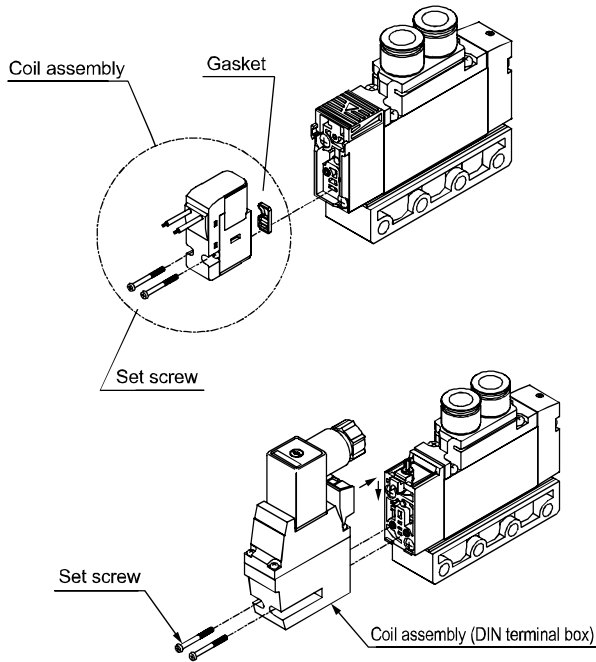
\*2: Select the mount for T8 with M4GB2R and M4GB3R types.

\*3: The DIN rail must be prepared separately.



## Related parts

### (8) Coil assembly



### Coil assembly

No.	Part name	Model No.
1	Coil assembly	4GR- <input type="text" value="electrical connections"/> - <input type="checkbox"/> -COIL-[ <input type="text" value="voltage"/>

Blank: Standard  
 A: Ozone proof  
 S: Surgeless \*1  
 E: Low exoergic/energy circuit \*1, \*2  
  
 E\* : E type connector  
 E\*J : Socket with cover  
 B\* : DIN terminal box  
Blank: Grommet lead wire  
B includes the DIN terminal box

\*1: E2\* type and E2\*J type connectors support 12/24 VDC only.  
In addition, surgeless "S" and low exoergic/energy circuit "E" cannot be selected together.

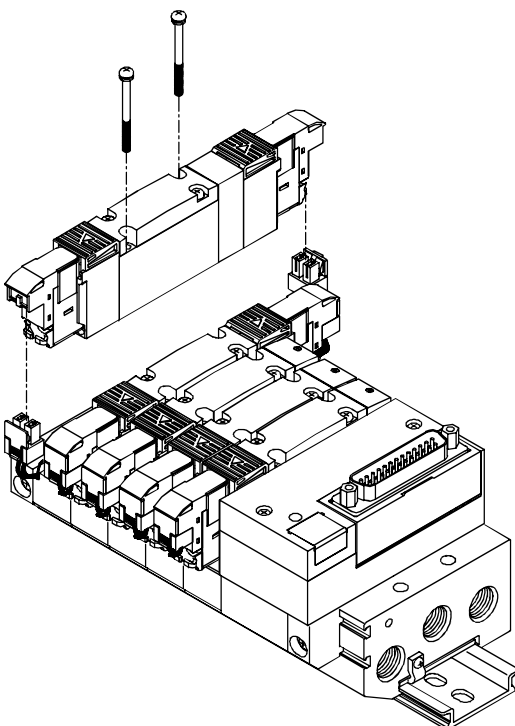
\*2: Surgeless specifications.

### Coil parts

Part model No.
4GR-COIL-GASKET
4GR-COIL-SET-SCREW

Note) There is no compatibility between the DIN terminal box and other coil assemblies.

### (9) Lead wire related parts



### Socket assembly

No.	Part name	Model No.
2	E type connector socket assembly	4GR-SOCKET-ASSY-E**-[ <input type="text" value="Voltage"/>
3	Socket assembly with cover	4GR-SOCKET-ASSY-E**J
4	DIN terminal box assembly	4GR-TERMINAL-BOX-[ <input type="text" value="Voltage"/>

### Socket set

Part model No.
4GR-SOCKET-SET

### A type connector socket assembly

Part model No.
4G[*1]R-SOCKET-ASSY-A[*2][*3]-[*4]

\*1 Series flow rate size  
\*2 Blank: Left side, R: Right side  
\*3 A: aSOL side, B: bSOL side  
\*4 Row No.

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