

Individual wiring manifold
Body piping
Direct mount type/DIN rail mount type

M3GA1, 2, 3- (D) /M4GA1, 2, 3- (D) Series

● Applicable cylinder bore size: $\phi 20$ to $\phi 100$

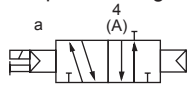


Refer to Ending for details.

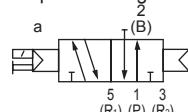


JIS symbol

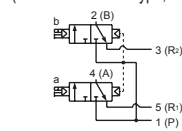
- 3 port valve
2-position single N.C. type



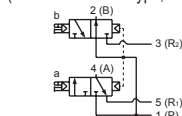
- 2-position single N.O. type



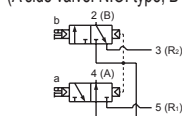
- Dual 3 port valve integrated type
(A side valve: N.C. type, B side valve: N.C. type)



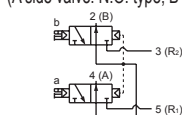
(A side valve: N.C. type, B side valve: N.O. type)



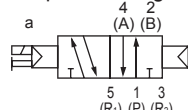
(A side valve: N.O. type, B side valve: N.C. type)



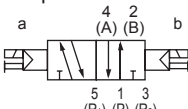
(A side valve: N.O. type, B side valve: N.O. type)



- 5 port valve
2-position single

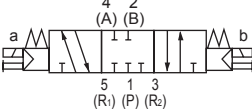


2-position double

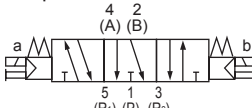


3-position

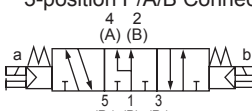
All ports closed



3-position A/B/R Connection



3-position P/A/B Connection



Manifold common specifications

Descriptions	
Manifold type	Integrated base
Mounting method	Direct mount type/DIN rail mount type
Supply and exhaust method	Common supply/common exhaust (check valve integrated)
Pilot exhaust method	Internal pilot
	External pilot
Piping direction	Valve top direction
Valve type and operation method	Pilot operated soft spool valve
Working fluid	Compressed air
Max. working pressure MPa	0.7
Min. working pressure MPa	0.2 (Note 3)
Proof pressure MPa	1.05
Ambient temperature °C	-5 to 55 (no freezing)
Fluid temperature °C	5 to 55
Manual operating device	Non-locking/locking common type (standard)
Lubrication	Note 1
Degree of protection	Note 2
Vibration resistance m/s ²	50 or less
Shock resistance m/s ²	300 or less
Atmosphere	Containing corrosive gas is not permissible

Note 1 Use the turbine oil Class 1 ISO VG32 if lubricated. Excessive or intermittent lubrication results in unstable operation.

Note 2 Avoid water drops or oil, etc. during use. IP65 (jet-proof type) applies for DIN terminal box specifications. Note that the specified adaptive cord outer diameter and tightening torque must be used for fixing.

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

Electric specifications

Descriptions									
Rated voltage		24 VDC	12 VDC	5 VDC	3 VDC	100 VAC	200 VAC		
Voltage fluctuation range		±10%							
Holding current A (Note 4)	Standard	0.015 (0.017)	0.030 (0.034)	0.072 (0.082)	0.120 (0.136)	0.009 (0.009)	0.006 (0.006)		
	With low heat energy-saving circuit	0.005	0.010	-		-			
Power consumption W (Note 4)	Standard	0.35 (0.40)		0.35 (0.40)		-			
	With low heat energy-saving circuit	0.1		-		-			
Apparent power VA (Note 4) (Note 5)	Standard	-		-		0.93 (0.98)	1.26		
Thermal class		B							
Surge suppressor		Option							
Indicator		Light (option)							

Note 4 Values in () apply when a light is attached. In addition, the low heat energy-saving circuits only have a light attached.

Note 5 200 VAC is the DIN terminal box (with light) value .

Individual specifications

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)		20 stations	16 stations	20 stations	16 stations	20 stations	16 stations	
	External pilot		12 stations	12 stations					
Port size	Rc thread, M5	A/B port	φ1.8 Barbed fitting 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		
	NPT thread, M5	A/B port	Push-in fitting φ1.8 φ5/32 M5		Push-in fitting φ1/4 φ5/16 1/8NPT		Push-in fitting φ5/16 φ1/8 1/4NPT (Note 5)		
		P/R1/R2 port	1/8NPT		1/4NPT		3/8NPT (Note 5)		
	G thread, M5	A/B port	Push-in fitting φ4,φ6 M5		Push-in fitting φ4, φ6, φ8 G1/8		-		
		P/R1/R2 port	G1/8		G1/4		-		
Manifold base formula (n: station no.) a			Standard	23n+52	25n+60	47n+64	49n+92	74n+88	76n+117
			External pilot	36n+105	38n+113	88n+135	90n+163	136n+194	138n+223

Note 5: This is a available consult factory order.

Refer to "Cautions for Mounting the DIN Rail" (page 630), and select the manifold.

For 10 or over manifold station no. (5 stations for 4G3), use ports on both sides for air supply and exhaust. The manifold base weight is the value for thread specifications.

M3GA1, 2, 3/M4GA1, 2, 3 Series

Individual wiring manifold; body piping

Flow characteristics

Model no.	Valve Position		P→A/B		A/B→R1/R2	
			C [dm³/(s/bar)]	b	C [dm³/(s/bar)]	b
M3GA1 M4GA1	Dual 3 port valve integrated type		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	Dual 3 port valve integrated type		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 -

Note 1: Effective sectional area S and sonic conductance C are converted as $S \div 5.0 \times C$.

Note 2: Values in () apply when a check valve is attached.

Ozone proof specifications / Cutting oil proof type specifications

Select the option "A" of (E) in how to order on page 93.

Clean room specifications (Catalog No. CB-033S)

- Particle generation preventing structure for use in clean rooms

** - Voltage - P7*

Specifications for secondary battery (Catalog No. CC-947A)

- In order to be applicable for secondary battery manufacturing process, confine materials for air passage and sliding section

** - Voltage - P4

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GA1/2/3 Series

Individual wiring manifold; body piping

How to order

Manifold model no.

M **4GA1** **1** **0R** - **C6** - **E2** **H** **D** - **3**

3 port manifold model no.

M **4GA1** **1** **0R** - **C6** - **E2** **H** **D** - **3**

● Discrete valve for mounting base

4GA1 **1** **9R** - **C6** - **E2** **H** - **3**

● Discrete 3 port valve for mounting base

4GA1 **1** **9R** - **C6** - **E2** **H** - **3**

B Valve Position

A Model no.

C Port size

D Electrical connections

E Option

F Mount type

G Station no.

H Voltage

* Always indicate "Manifold specifications" (page 200 to 214).

A Model No.

Symbol	Descriptions	3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
B Valve Position							
1	2-position single				●	●	●
2	2-position double				●	●	●
3	3-position all ports closed				●	●	●
4	3-position ABR connection				●	●	●
5	3-position PAB connection				●	●	●
1	2-position single normally closed Note 1	●	●	●			
11	2-position single normally open Note 1	●	●	●			
66	Dual 3 port valve integrated type Note 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 (In case of multiple Valve Positions)	●	●	●	●	●	●

C Port size							
Port	4 (A) / 2 (B) port	P/R1/R2 port (2) = Rc1/8 (3) = Rc1/4 (4) = Rc3/8					
CF	φ1.8 barbed fitting for fiber tube (applicable tube UP-9102-**) (2)			(2)			
C18	φ1.8 push-in fitting for fiber tube (applicable 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 Note 3 (2) (3) (4)		(2)	(3)	(4)		
M5	M5 (1)				(1)		
06	Rc1/8 (2)				(2)		
08	Rc1/4 (3)				(3)		
Port	4 (A) / 2 (B) port	P/R1/R2 port (5) = 1/8NPT (6) = 1/4NPT (7) = 3/8NPT					
C3N	φ1/8 push-in fitting (5)			(5)			
C4N	φ5/32 push-in fitting (5)			(5)			
C6N	φ1/4 push-in fitting (6)			(6)			
C8N	φ5/16 push-in fitting (6) (7)		(6)	(7)			
C10N	φ3/8 push-in fitting (7)					(7)	
CXN	Push-in fitting mix Note 3 (5) (6) (7)		(5)	(6)	(7)		
M5N	M5 (5)				(5)		
06N	1/8NPT (6)				(6)		
08N	1/4NPT Note 4 (7)				(7)		
Port	4 (A) / 2 (B) port	P/R1/R2 port (8) = G1/8 (9) = G1/4					
C4G	φ4 push-in fitting (8) (9)		(8)	(9)			
C6G	φ6 push-in fitting (8) (9)		(8)	(9)			
C8G	φ8 push-in fitting (9)				(9)		
CXG	Push-in fitting mix Note 3 (8) (9)		(8)	(9)			
M5G	M5 (8)				(8)		
4G	G1/8 (9)				(9)		

Note on model no. selection

Note 1 Select M4GA*80R when mixing with 3, 5 port valves.
Select M3GA*80R when mixing with the masking plate.

Note 2 Combination with the external pilot (K) is not available.
Dimensions are the same as the respective 2-position double solenoid.

Note 3 The push-in fitting cannot be mixed with the discrete valve's 4 (A) or 2 (B) port.

Note 4 Available consult factory order.

M4GA1/2/3 Series

Individual wiring manifold; body piping

			A Model No.					
			3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
D Electrical connections								
Blank	Grommet lead wire (300 mm)	Note 13	●	●	●	●	●	●
B	DIN terminal box (Pg7) with surge suppressor/light	Note 14	●	●	●	●	●	●
BN	DIN terminal box (Pg7) (without terminal box) with surge suppressor	Note 14	●	●	●	●	●	●
E type connector (upward/lateral direction common)								
E0	Lead wire (300 mm)	Note 15	●	●	●	●	●	●
E00	Lead wire (500mm)	Note 15	●	●	●	●	●	●
E01	Lead wire (1000mm)	Note 15	●	●	●	●	●	●
E02	Lead wire (2000mm)	Note 15	●	●	●	●	●	●
E03	Lead wire (3000mm)	Note 15	●	●	●	●	●	●
E0N	Without lead wire (without socket)	Note 15	●	●	●	●	●	●
E1	Without lead wire (with socket/terminal)	Note 15	●	●	●	●	●	●
E2	Lead wire (300 mm) With surge suppressor/light		●	●	●	●	●	●
E20	Lead wire (500mm) With surge suppressor/light		●	●	●	●	●	●
E21	Lead wire (1000mm) With surge suppressor/light		●	●	●	●	●	●
E22	Lead wire (2000mm) With surge suppressor/light		●	●	●	●	●	●
E23	Lead wire (3000mm) With surge suppressor/light		●	●	●	●	●	●
E2N	Without lead wire (without socket) With surge suppressor/light		●	●	●	●	●	●
E3	Without lead wire (with socket/terminal) With surge suppressor/light		●	●	●	●	●	●
EJ type connector (socket with cover, upward/lateral direction common)								
E01J	Lead wire (1000mm)	Note15	●	●	●	●	●	●
E02J	Lead wire (2000mm)	Note15	●	●	●	●	●	●
E03J	Lead wire (3000mm)	Note15	●	●	●	●	●	●
E21J	Lead wire (1000mm) With surge suppressor/light		●	●	●	●	●	●
E22J	Lead wire (2000mm) With surge suppressor/light		●	●	●	●	●	●
E23J	Lead wire (3000mm) With surge suppressor/light		●	●	●	●	●	●
E Option								
Blank	Non-locking/locking common manual override		●	●	●	●	●	●
M	Non-locking manual override		●	●	●	●	●	●
H	With check valve	Note 5	●	●	●	●	●	●
K	External pilot	Note 6	●	●	●	●	●	●
A	Ozone/cutting oil proof		●	●	●	●	●	●
S	Surgeless	Note 7	●	●	●	●	●	●
E	Low heat and energy saving circuit	Note 7, Note 8	●	●	●	●	●	●
F	A/B port filter integrated	Note 9	●	●	●	●	●	●
Z1	Air supply spacer	Note 10	●	●	●	●	●	●
Z2	In stop valve spacer	Note 10, Note 11	●	●	●	●	●	●
Z3	Exhaust spacer	Note 10	●	●	●	●	●	●
F Mount type								
Blank	Direct mount type		●	●	●	●	●	●
D	DIN rail mount type		●	●	●	●	●	●
G Station no.								
2	2 stations		●	●	●	●	●	●
to	to		●	●	●	●	●	●
20	Refer to page 90 for the max. station no. for each model.		●	●	●	●	●	●
H Voltage								
1	100 VAC (rectifier integrated)		●	●	●	●	●	●
2	200 VAC (rectifier integrated)	Note12	●	●	●	●	●	●
3	24 VDC		●	●	●	●	●	●
4	12 VDC		●	●	●	●	●	●
7	3 VDC		○	○	○	○	○	○
8	5 VDC		○	○	○	○	○	○

is not available.

○ Contact CKD for price and availability.

Note 5 3-position all ports closed and PAB connection are not provided with check valve (H).

Refer to page 628 for details on check valve.

Note 6 Contact CKD when using a vacuum with the external pilot (K).

Note 7 Only the E2* type, E2* J type connector and 12/24 VDC are supported.

In addition, the surgeless "S" and low heat energy-saving circuit "E" cannot be selected at the same time.

Note 8 This is surgeless specifications.

Note 9 The P port has a filter built inside as a standard.

Note10 Specify the spacer mounting position and quantity in manifold specifications.

Stacking multiple spacers is not supported.

Combination with the masking plate is not supported.

Refer to page 180 to 184 for details.

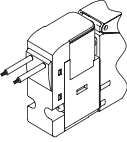
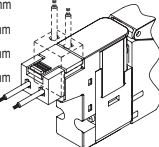
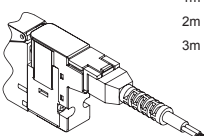
Note 11 Combination with the external pilot (K) is not available.

Note 12 Only the DIN terminal box are supported.

Note 13 Grommet lead wire specifications are only for DC voltage.

Note 14 Supports AC voltage and 12/24 VDC. The light is also attached to the terminal box.

Note 15 AC voltage comes 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 300mm	
E0 E2	E type connector
● Lead wire length 300mm 500mm 1000mm 2000mm 3000mm	
E0N E2N	E type connector without socket
BN	DIN terminal box (without terminal box)
E0*J E2*J	EJ type connector
● Lead wire length 1m 2m 3m	

4GA/B

M4GA/B

MN4GA/B

4GA/B
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

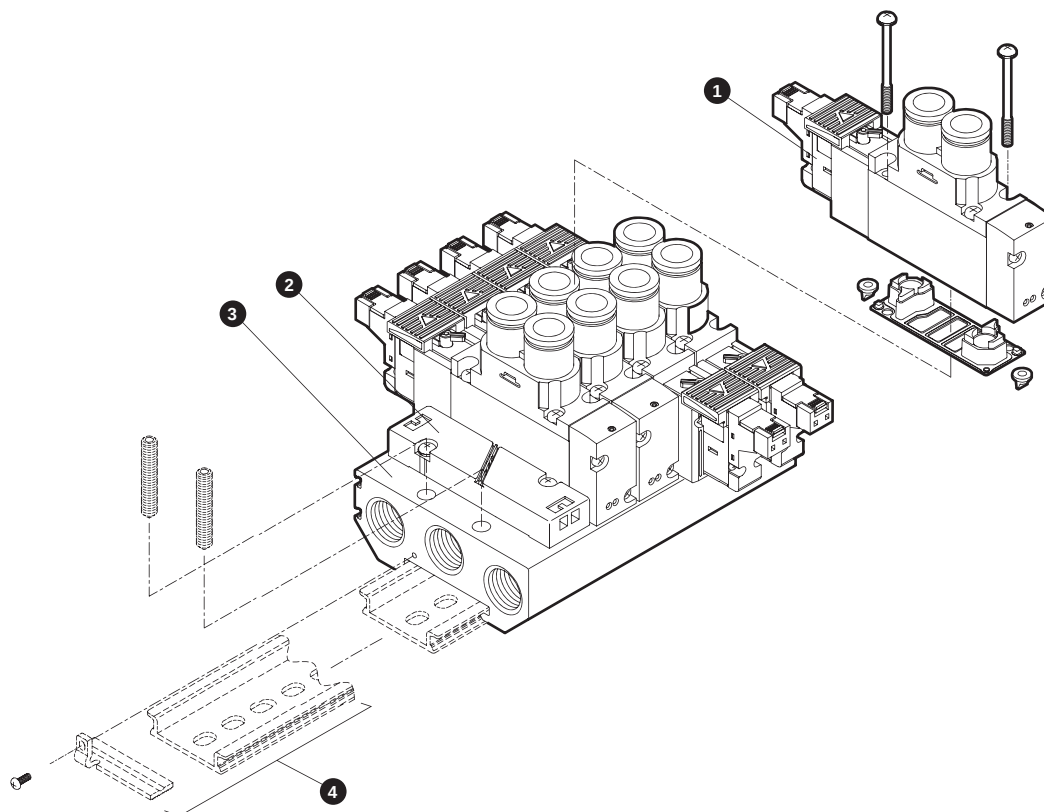
Safety
precautions

Manifold
Specifications

M4GA1/2/3 Series

Individual wiring manifold; body piping

Manifold components explanation and parts list



Main components list

No.	Component name	Model no.	Descriptions	Remarks
1	Discrete valve for mounting base	4GA**9R - Port size — Electrical connections — Option — Voltage Valve Position Series flow rate size	Discrete valve Gasket Set screw 2 PR check valve 2	Details on page 92
2	Masking plate	3G1 & 4G1 4G1R-MP 3G2 & 4G2 4G2R-MP 3G3 & 4G3 4G3R-MP	Masking plate Gasket Set screw 2	*3G3 & 4G3 has two PR check valves.
3	Manifold base assembly	M4GA*R — 00 — Option — Station no. Series flow rate size	Manifold base	
4	DIN rail kit			Details on page 191

Parts list

No.	Parts name	Model no.	No.	Parts name	Model no.
-	Coil assembly	4GR — Electric wire Connection — * — COIL * Voltage Blank (standard) A: Ozone/cutting oil proof Select from ① Electrical connections on page79	-	Cartridge type Push-in fitting and related parts	
-	E type connector socket assembly	4GR — SOCKET — ASSY — Electric wire Connection — Voltage		4G1	φ1.8 barbed type 4G1R-JOINT-CF φ1.8 straight type 4G1R-JOINT-C18 φ4 straight type 4G1R-JOINT-C4 φ6 straight type 4G1R-JOINT-C6 φ1/8 straight type 4G1R-JOINT-C6 φ5/32 straight type 4G1R-JOINT-C4N Plug cartridge 4G1R-JOINT-CPG
-	EJ type connector socket assembly	4GR — SOCKET — ASSY — Electric wire Connection		4G2	φ4 straight type 4G2R-JOINT-C4 φ6 straight type 4G2R-JOINT-C6 φ8 straight type 4G2R-JOINT-C6 φ1/4 straight type 4G2R-JOINT-C6N φ5/16 straight type 4G2R-JOINT-C8N Plug cartridge 4G2R-JOINT-CPG
				4G3	φ6 straight type 4G3R-JOINT-C6 φ8 straight type 4G3R-JOINT-C8 φ10 straight type 4G3R-JOINT-C10 φ5/16 straight type 4G3R-JOINT-C8N φ3/8 straight type 4G3R-JOINT-C10N Plug cartridge 4G3R-JOINT-CPG

4GA/B	M4GA/B	MN4GA/B	4GA/B Master valve	4GD/E	M4GD/E	MN4GD/E	Technical data	Safety precautions	Manifold Specifications
-------	--------	---------	-----------------------	-------	--------	---------	----------------	-----------------------	----------------------------

M4GA1 Series

Individual wiring manifold; body piping

Dimensions

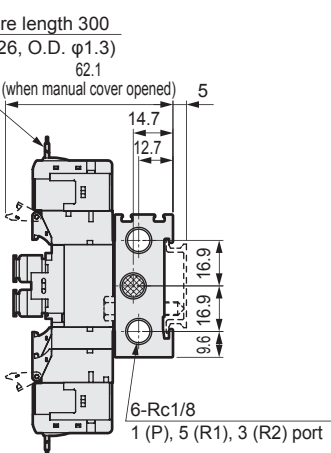
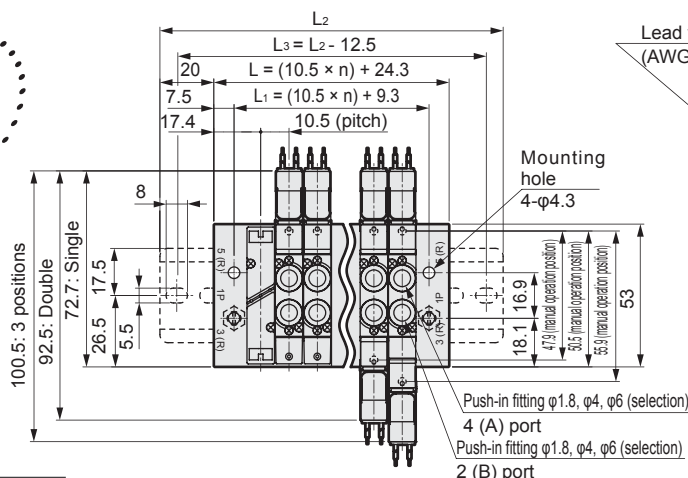
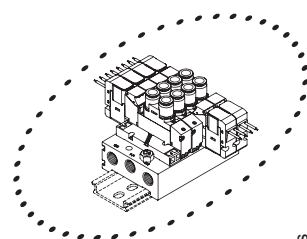


M4GA1

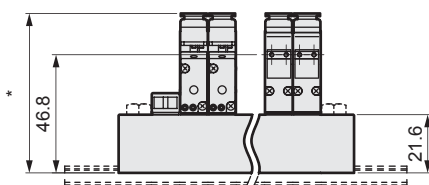
- Grommet lead wire (blank)

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

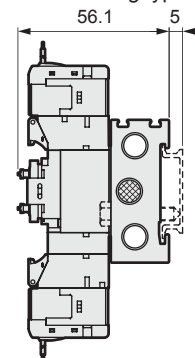
The dimension of dual 3 port valve integrated type is the same as that of the double type.



Push-in fitting Port size	* Dimensions
φ1.8	54
φ4	58
φ6	59.2
φ1/8	58.5
φ5/32	58



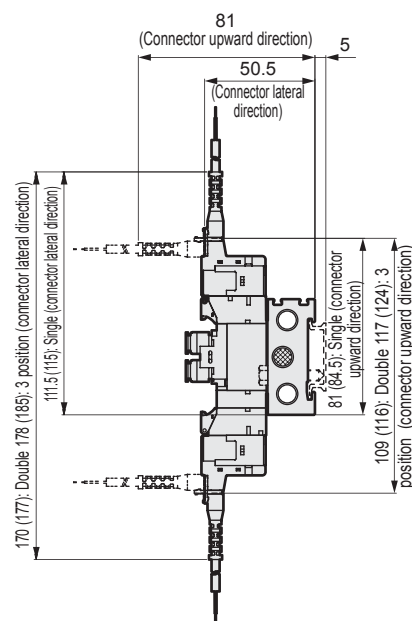
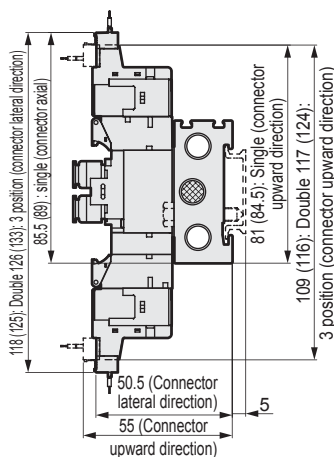
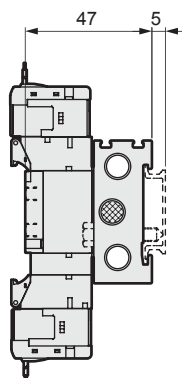
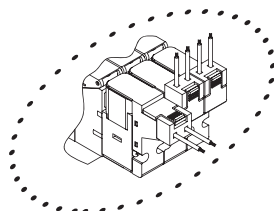
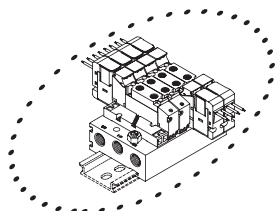
- φ1.8 barbed fitting type (CF)



- M5 female thread type (M5)

- E type connector type (E)

- EJ type connector type (E**J)



Note: Values in () apply for 100 VAC.

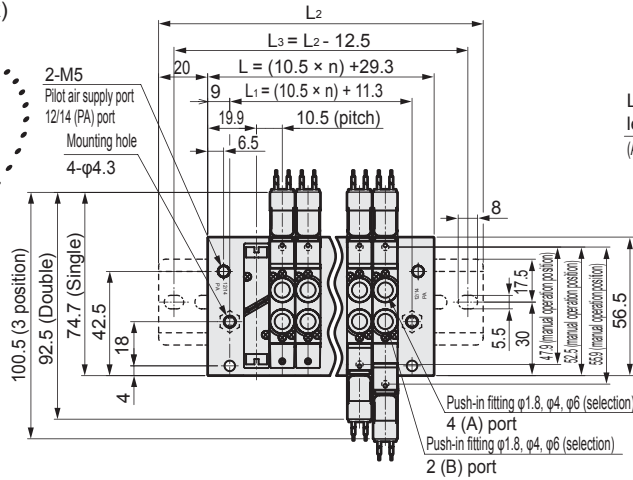
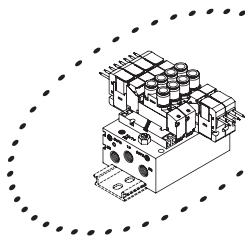
Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	45.3	55.8	66.3	76.8	87.3	97.8	108.3	118.8	129.3	139.8	150.3	160.8	171.3	181.8	192.3	202.8	213.3	223.8	234.3
L ₁	30.3	40.8	51.3	61.8	72.3	82.8	93.3	103.8	114.3	124.8	135.3	145.8	156.3	166.8	177.3	187.8	198.3	208.8	219.3
L ₂	87.5	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5						
L ₃	75.0	87.5	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0						

Dimensions

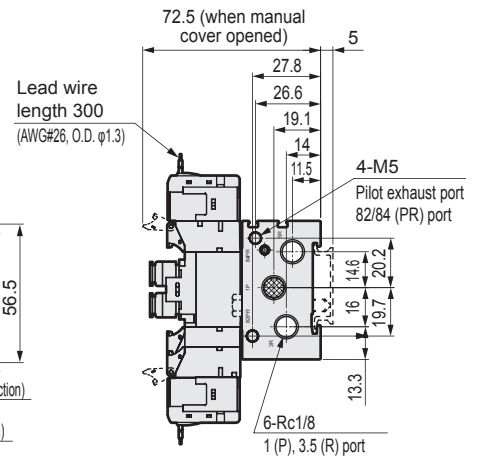


M4GA1

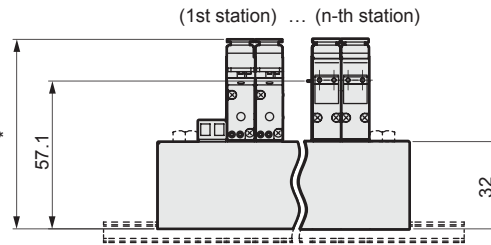
- External pilot (K)
Grommet lead wire (blank)



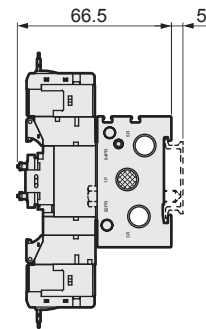
*For 2-position single 3 port valve, the port A or port B is a plug.



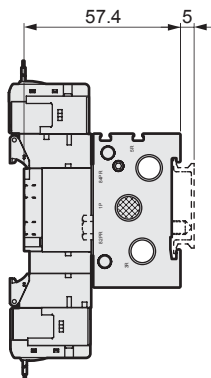
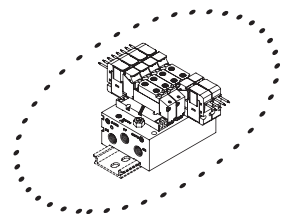
Push-in fitting Port size	* Dimensions
φ1.8	64.4
φ4	68.4
φ6	69.6
φ1/8	68.9
φ5/32	68.4



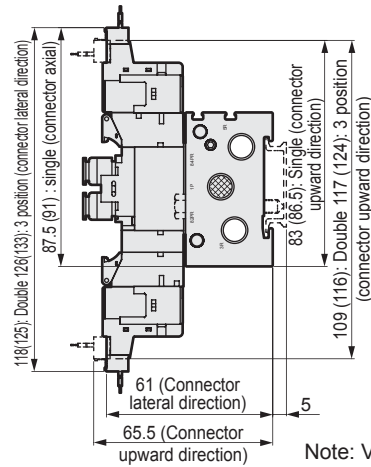
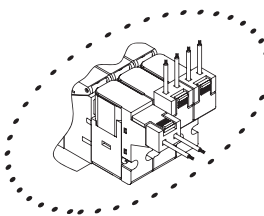
- φ1.8 barbed fitting type (CF)



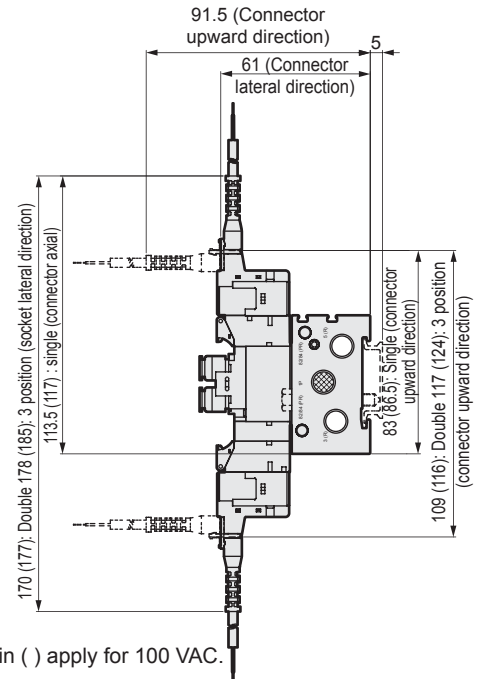
- External pilot (K)
M5 female thread type (M5)



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



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



Note: Values in () apply for 100 VAC.

Station 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 ₁	32.3	42.8	53.3	63.8	74.3	84.8	95.3	105.8	116.3	126.8	137.3
L ₂	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0
L ₃	87.5	100.0	100.0	112.5	125.0	137.5	150.0	162.5	162.5	175.0	187.5

Individual wiring manifold; body piping

Dimensions

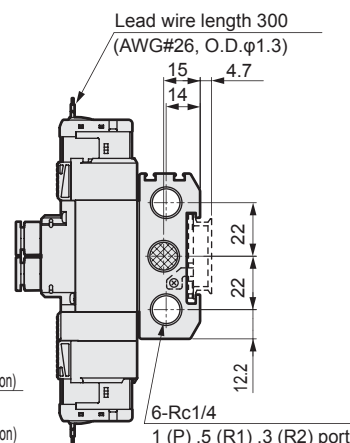
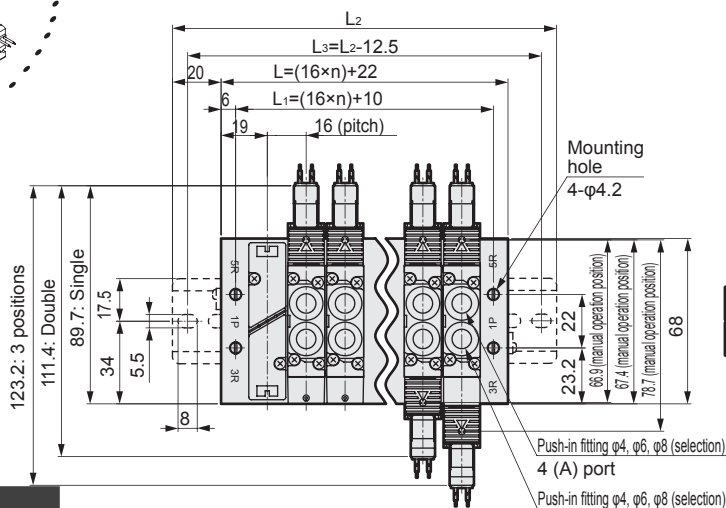
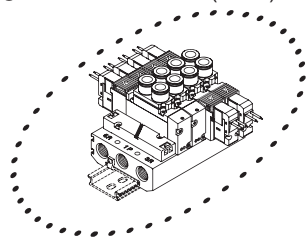


M4GA2

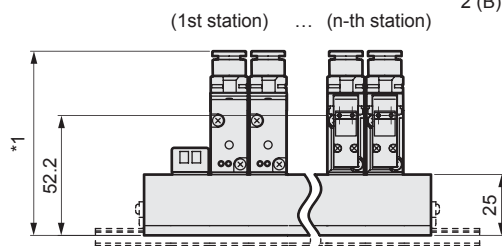
- Grommet lead wire (blank)

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

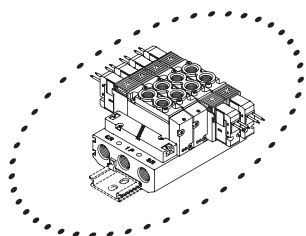
The dimension of dual 3 port valve integrated type is the same as that of the double type.



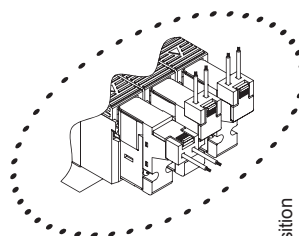
Push-in fitting Port size	*1 Size
φ4	76
φ6	
φ8	
φ1/4	76.9
φ5/16	76.2



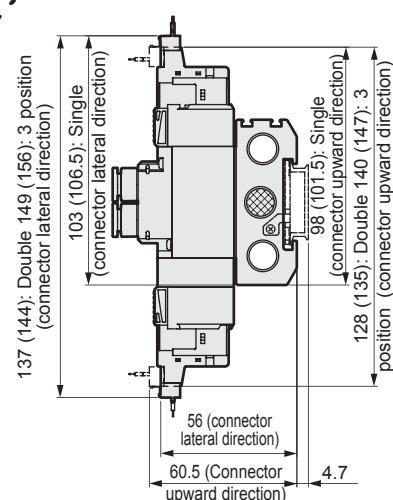
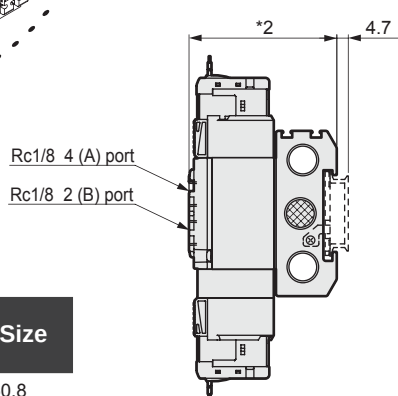
- Rc1/8 female thread type (06)



- E type connector type (E)



Note: Values in () apply for 100 VAC

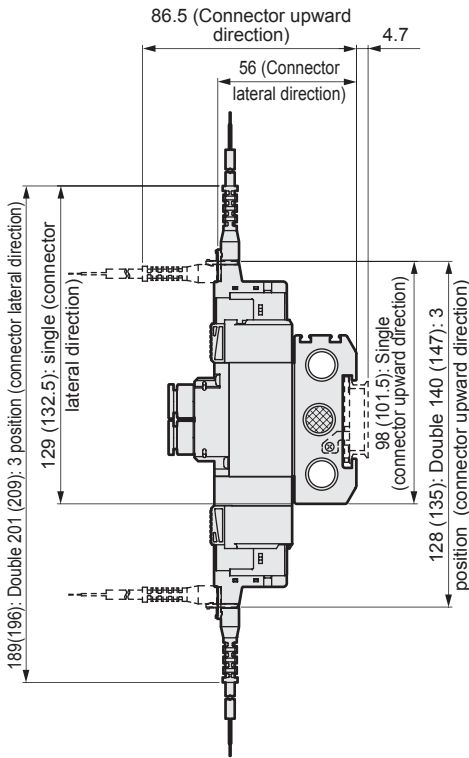


Female thread size	*2 Size
Rc1/8	60.8
1/8NPT	62.1
G1/8	

Station 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 ₁	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 ₂	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 ₃	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				

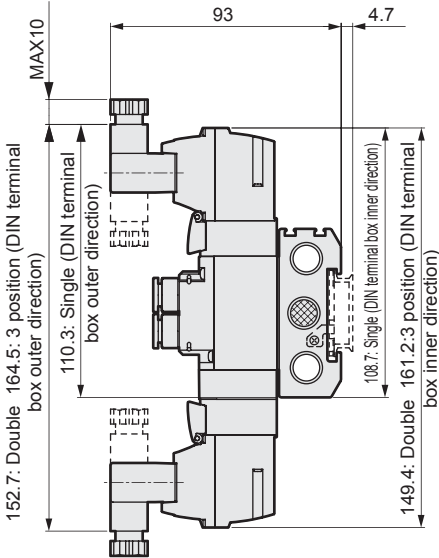
Dimensions

● EJ type connector type (E**J)



Note: Values in () apply for 100 VAC

● DIN terminal box type (B)



Note: The DIN terminal box assembly is shipped facing inward.

4GA/B	M4GA/B	MN4GA/B	4GA/B Master valve	4GD/E	M4GD/E	MN4GD/E	Technical data	Safety precautions	Manifold Specifications
-------	--------	---------	-----------------------	-------	--------	---------	----------------	-----------------------	----------------------------

M4GA2 Series

Individual wiring manifold; body piping

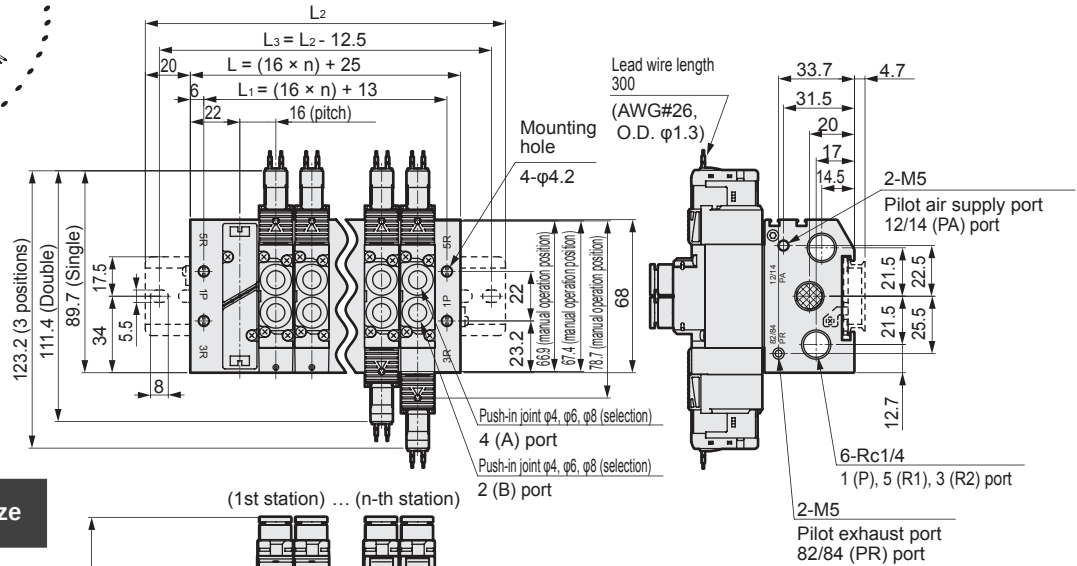
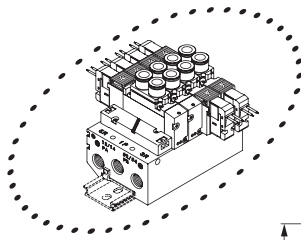
Dimensions



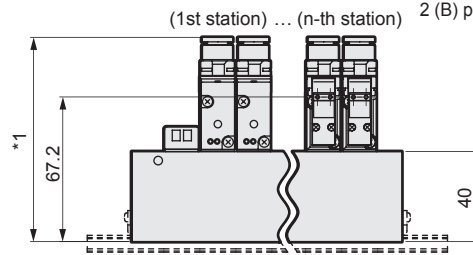
M4GA2

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

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

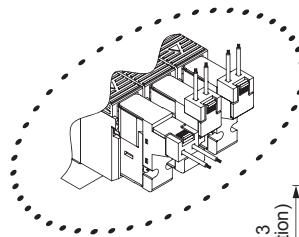
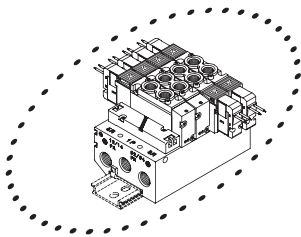


Push-in fitting Port size	*1 Size
$\phi 4$	91
$\phi 6$	
$\phi 8$	
$\phi 1/4$	91.9
$\phi 5/16$	91.2



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

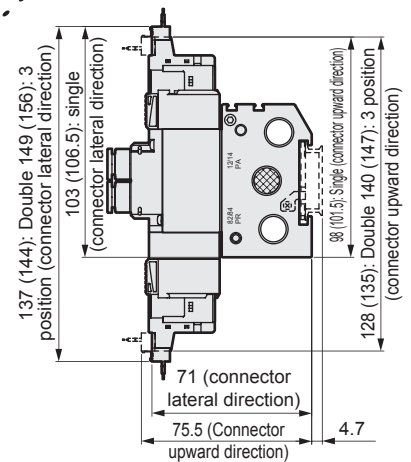
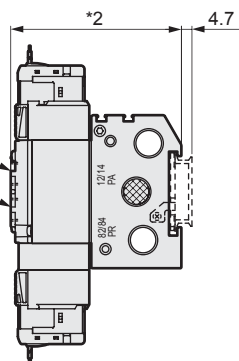
- External pilot (K)
E type connector type (E)



Note: Values in () apply for 100 VAC.

Rc1/8 4 (A) port
Rc1/8 2 (A) port

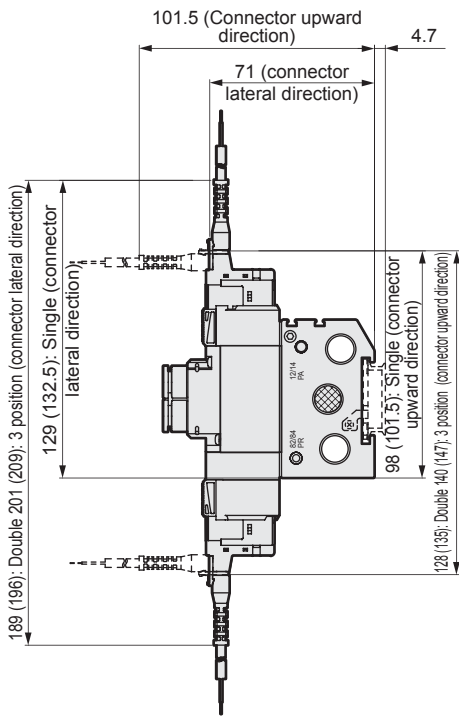
Female thread size	*2 Size
Rc1/8	75.8
1/8NPT	77.1
G1/8	



Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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
L ₁	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 ₂	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 ₃	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				

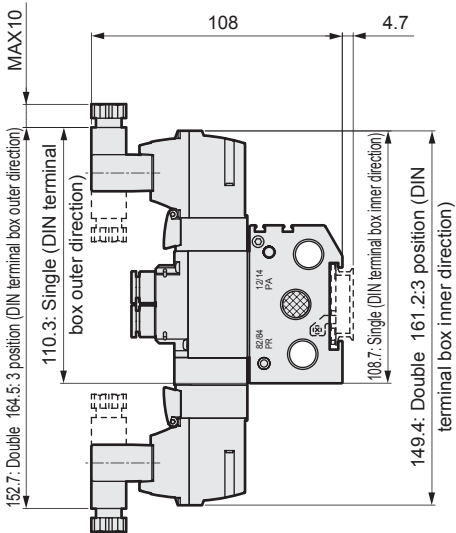
Dimensions

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



Note: Values in () apply for 100 VAC

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



Note: The DIN terminal box assembly is shipped facing inward.

4GA/B	M4GA/B	MN4GA/B	4GA/B Master valve	4GD/E	M4GD/E	MN4GD/E	Technical data	Safety precautions	Manifold Specifications
-------	--------	---------	-----------------------	-------	--------	---------	----------------	-----------------------	----------------------------

M4GA3 Series

Individual wiring manifold; body piping

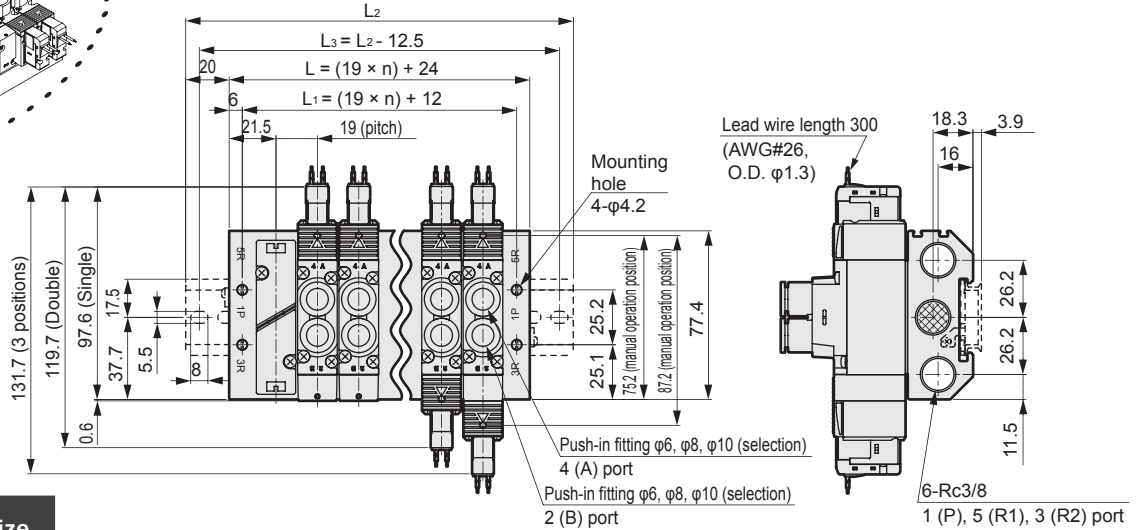
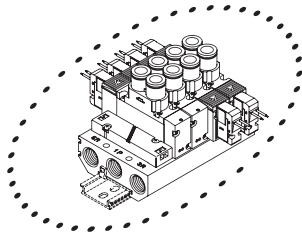
Dimensions



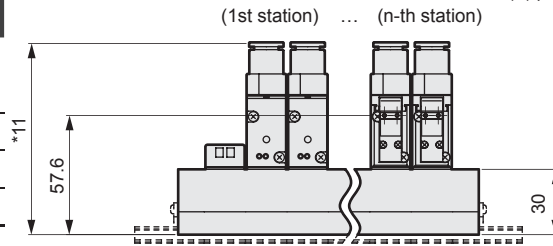
M4GA3

- Grommet lead wire (blank)

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

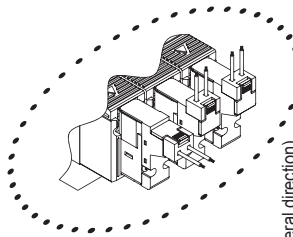
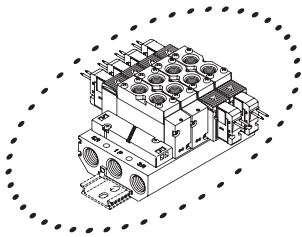


Push-in fitting Port size	*1 Size
φ6	82.8
φ8	
φ10	88.3
φ5/16	89
φ3/8	92.2



- Rc1/4 female thread type (08)

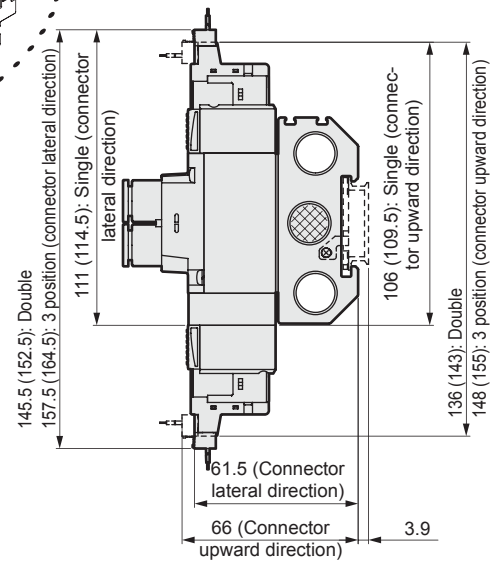
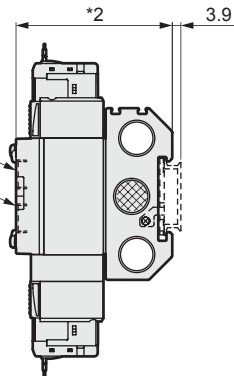
- E type connector type (E)



Note: Values in () apply for 100 VAC.

Rc1/4 4 (A) port
Rc1/4 2 (B) port

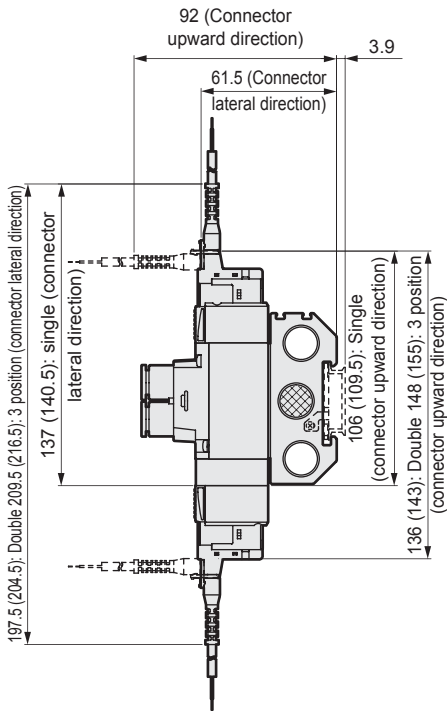
Female thread size	*2 Size
Rc1/4	70.4
1/4NPT	70.9



Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	62.0	81.0	100.0	119.0	138.0	157.0	176.0	195.0	214.0	233.0	252.0	271.0	290.0	309.0	328.0	347.0	366.0	385.0	404.0
L ₁	50.0	69.0	88.0	107.0	126.0	145.0	164.0	183.0	202.0	221.0	240.0	259.0	278.0	297.0	316.0	335.0	354.0	373.0	392.0
L ₂	112.5	125.0	150.0	162.5	187.5	200.0	225.0	237.5	262.5	275.0	300.0	312.5	337.5	350.0	375.0				
L ₃	100.0	112.5	137.5	150.0	175.0	187.5	212.5	225.0	250.0	262.5	287.5	300.0	325.0	337.5	362.5				

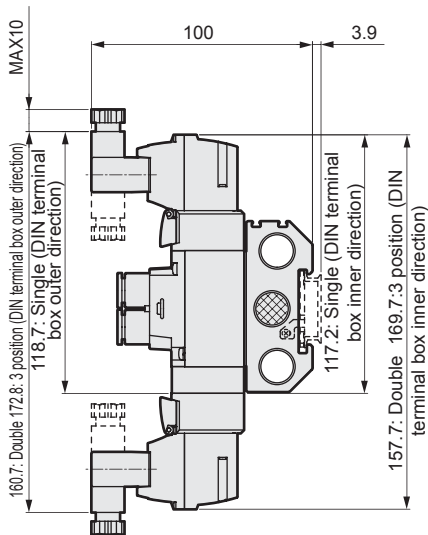
Dimensions

● EJ type connector type (E** J)



Note: Values in () apply for 100 VAC

● DIN terminal box type (B)



Note: The DIN terminal box assembly is shipped facing inward.

4GA/B	M4GA/B	MN4GA/B	4GA/B Master valve	4GD/E	M4GD/E	MN4GD/E	Technical data	Safety precautions	Manifold Specifications
-------	--------	---------	-----------------------	-------	--------	---------	----------------	-----------------------	----------------------------

M4GA3 Series

Individual wiring manifold; body piping

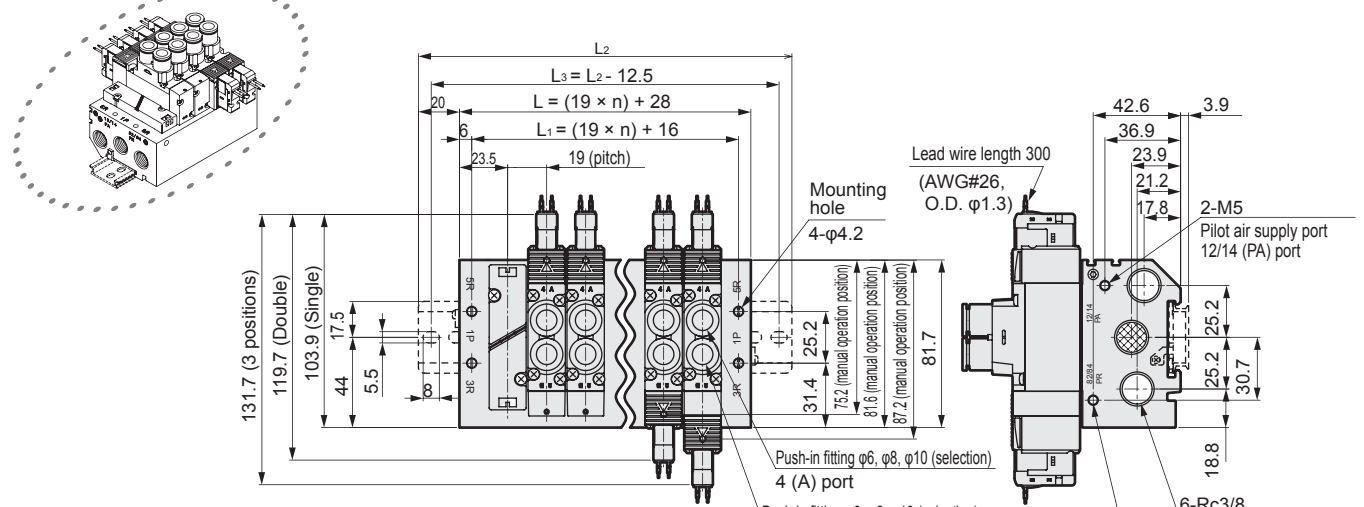
Dimensions



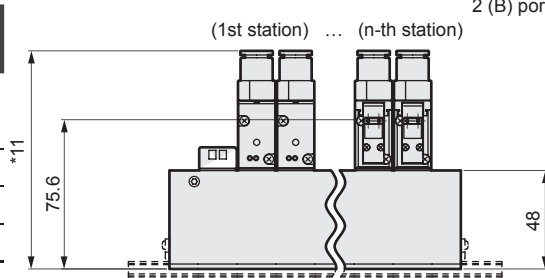
M4GA3

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

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

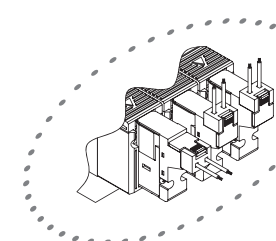
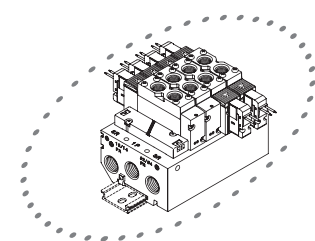


Push-in fitting Port size	*1 Size
φ6	100.8
φ8	
φ10	106.3
φ5/16	107
φ3/8	110.2

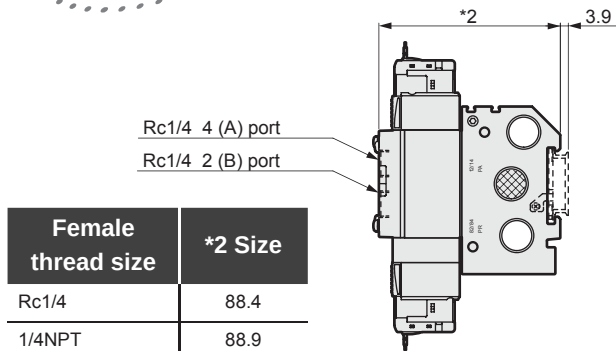


- External pilot (K)
Rc1/4 female thread type (08)

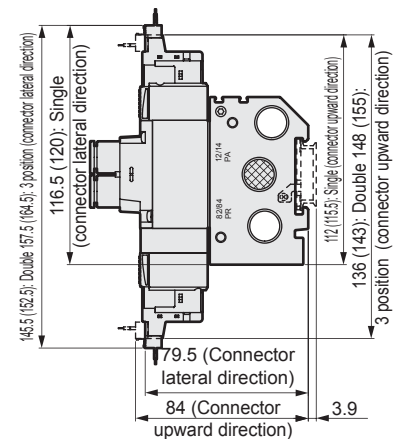
- External pilot (K)
E type connector type (E)



Note: Values in () apply for 100 VAC



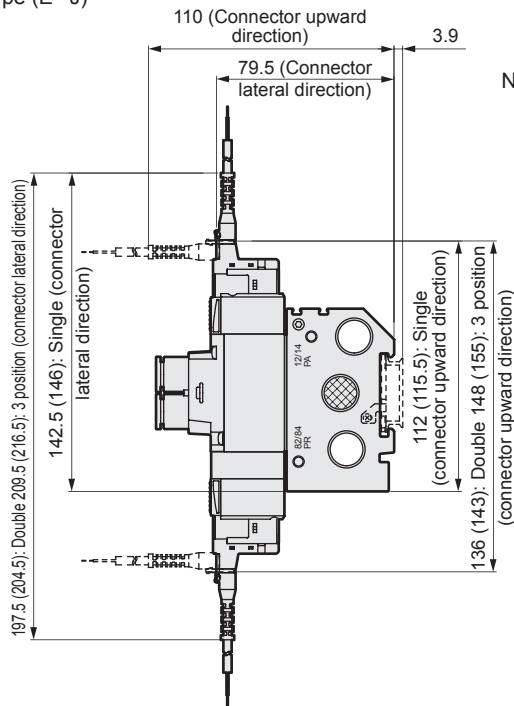
Female thread size	*2 Size
Rc1/4	88.4
1/4NPT	88.9



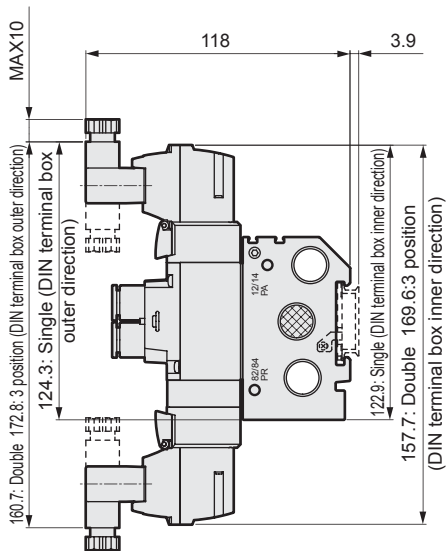
Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	66.0	85.0	104.0	123.0	142.0	161.0	180.0	199.0	218.0	237.0	256.0	275.0	294.0	313.0	332.0	351.0	370.0	389.0	408.0
L ₁	54.0	73.0	92.0	111.0	130.0	149.0	168.0	187.0	206.0	225.0	244.0	263.0	282.0	301.0	320.0	339.0	358.0	377.0	396.0
L ₂	112.5	125.0	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 ₃	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				

Dimensions

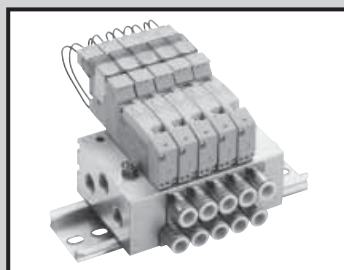
- External pilot (K)
EJ type connector type (E**J)



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



4GA/B	M4GA/B	MN4GA/B	4GA/B Master valve	4GD/E	M4GD/E	MN4GD/E	Technical data	Safety precautions	Manifold Specifications
-------	--------	---------	-----------------------	-------	--------	---------	----------------	-----------------------	----------------------------



Individual wiring manifold
Base piping
Direct mount type/DIN rail mount type

M3GB1, 2/M4GB1, 2, 3-(D) Series

● Applicable cylinder bore size: $\phi 20$ to $\phi 100$

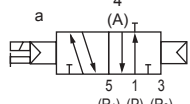


Refer to Ending for details.

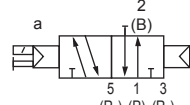


JIS symbol

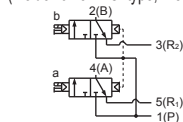
- 3 port valve
2-position single N.C. type



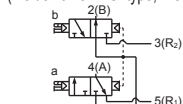
2-position single N.O. type



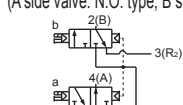
- Dual 3 port valve integrated type
(A side valve: N.C. type, B side valve: N.C. type)



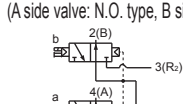
(A side valve: N.C. type, B side valve: N.O. type)



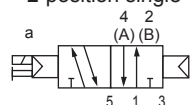
(A side valve: N.O. type, B side valve: N.C. type)



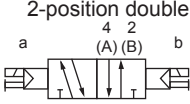
(A side valve: N.O. type, B side valve: N.O. type)



- 5 port valve
2-position single

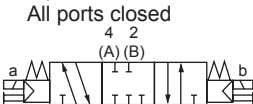


2-position double

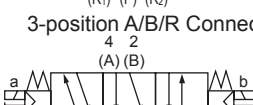


3-position

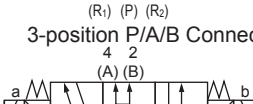
All ports closed



3-position A/B/R Connection



3-position P/A/B Connection



Manifold common specifications

Descriptions		
Manifold type		Integrated base
Mounting method		Direct mount type/DIN rail mount type
Supply and exhaust method		Common supply/common exhaust (check valve integrated)
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (Pilot exhaust check valve integrated)
	External pilot	Main valve/pilot valve individual exhaust
Piping direction		Base part lateral direction
Valve type and operation		Pilot operated type soft spool valve
Working fluid		Compressed air
Max. working pressure MPa		0.7
Min. working pressure MPa		0.2 (Note 3)
Proof pressure MPa		1.05
Ambient temperature °C		-5 to 55 (no freezing)
Fluid temperature °C		5 to 55
Manual operating device		Non-locking/locking common type (standard)
Lubrication (Note 1)		Not required
Degree of protection (Note 2)		Dust proof
Vibration resistance m/s ²		50 or less
Shock resistance m/s ²		300 or less
Atmosphere		Containing corrosive gas is impermissible.

- Note 1 Use the turbine oil Class 1 ISO VG32 if lubricated. Excessive or intermittent lubrication results in unstable operation.
- Note 2 Avoid water drops or oil, etc. during use. IP65 (jet-proof type) applies for DIN terminal box specifications. Note that the specified adaptive cord outer diameter and tightening torque must be used for fixing.
- Note 3 The working pressure range is 0 to 0.7 MPa when the external pilot (option symbol: K) is selected. Set the external pilot pressure between 0.2 and 0.7 MPa.

Electric specifications

Descriptions		24 VDC	12 VDC	5 VDC	3 VDC	100 VAC	200 VAC
Rated voltage							
Voltage fluctuation range				±10%			
Holding current A (Note 4)	Standard	0.015 (0.017)	0.030 (0.034)	0.072 (0.082)	0.120 (0.136)	0.009 (0.009)	0.006 (0.006)
	With low heat energy-saving circuit	0.005	0.010	-	-	-	-
Power consumption W (Note 4)	Standard	0.35	0.40	0.35	0.40	-	-
	With low heat energy-saving circuit	0.1	-	-	-	-	-
Apparent power VA (Note 4) (Note 5)		-	-	-	-	0.93 (0.98)	1.26
Thermal class		B					
Surge suppressor		Option					
Indicator		Light (option)					

Note 4 Values in () apply when a light is attached. In addition, the low heat energy-saving circuits only have a light attached.

Note 5 200 VAC is the DIN terminal box (with light) value.

Individual specifications

Descriptions		M3GB1/M4GB1		M3GB2/M4GB2		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	20 stations	16 stations
	External pilot	12 stations	12 stations				
Port size	A/B port	$\phi 1.8$ Barbed fitting Push-in fitting $\phi 1.8$, $\phi 4$, $\phi 6$ $\phi 8$ (Note 5) M5		Push-in fitting $\phi 4$, $\phi 6$, $\phi 8$ $\phi 10$ (Note 5) Rc1/8		Push-in fitting $\phi 6$, $\phi 8$, $\phi 10$ Rc1/4	
	P/R1/R2 port	Rc1/8		Rc1/4		Rc3/8	
	A/B port	Push-in fitting $\phi 1/8$ inch, $\phi 5/32$ inch M5		Push-in fitting $\phi 1/4$ inch, $\phi 5/16$ inch 1/8NPT		Push-in fitting $\phi 5/16$ inch, $\phi 3/8$ inch 1/4NPT (Note 5)	
	P/R1/R2 port	1/8NPT		1/4NPT		3/8NPT (Note 5)	
	A/B port	Push-in fitting $\phi 4$, $\phi 6$ M5		Push-in fitting $\phi 4$, $\phi 6$, $\phi 8$ G1/8		-	
	P/R1/R2 port	G1/8		G1/4		-	
Manifold base formula (n: station no.) g		Standard	35n+61	36n+115	71n+106	73n+134	113n+170
		External pilot	35n+106	36n+114	76n+135	78n+166	118n+194
							115n+119
							120n+223

Refer to "Cautions for Mounting the DIN Rail" (page 631), and select the manifold.

For 10 or over manifold station no. (5 stations for 4G3), use ports on both sides for air supply and exhaust. The manifold base weight is the value for screw specifications.

Note 5: This is a available consult factory order.

M3GB1, 2/M4GB1, 2, 3 Series

Individual wiring manifold; base piping

Flow characteristics

Model no.	Valve Position		P→A/B		A/B→R1/R2	
			C [dm ³ /(s/bar)]	b	C [dm ³ /(s/bar)]	b
M3GB1 M4GB1	Dual 3 port valve integrated type		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	0.98	0.22	1.1 -	0.24 -
		ABR connection	0.97	0.35	1.3 (0.68)	0.22 (0.24)
		PAB connection	1.1	0.38	1.1 -	0.21 -
M3GB2 M4GB2	Dual 3 port valve integrated type		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	2.2	0.34	2.4 -	0.29 -
		ABR connection	2.2	0.34	2.8 (1.8)	0.24 (0.27)
		PAB connection	2.4	0.29	2.4 -	0.29 -
M4GB3	2-position		3.5	0.34	3.8 (2.6)	0.11 (0.27)
	3-position	All ports closed	3.1	0.33	3.3 -	0.22 -
		ABR connection	3.0	0.30	3.8 (2.7)	0.11 (0.22)
		PAB connection	3.6	0.36	3.3 -	0.28 -

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

Note 2: Values in () apply when a check valve is attached.

Ozone proof specifications / Cutting oil proof specifications

Select the option "A" of ⑤ in how to order on page 109.

Clean room specifications (Catalog No. CB-033S)

- Particle generation preventing structure for use in clean rooms

** - Voltage - P7*

Specifications for secondary battery (Catalog No. CC-947A)

- In order to be applicable for secondary battery manufacturing process, confine materials for air passage and sliding section

** - Voltage - P4

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GB1/2/3 Series

Individual wiring manifold; base piping

How to order

Manifold model no.

M **4GB1** **1** **0R** - **C6** - **E2** **H** **D** - **3**

3 port manifold model no.

M **3GB1** **1** **0R** - **C6** - **E2** **H** **D** - **3**

● Discrete valve for mounting base

4GB1 **1** **9R** - **00** - **E2** **H** - **3**

● Discrete 3 port valve for mounting base

3GB1 **1** **9R** - **00** - **E2** **H** - **3**

B Valve Position

A Model no.

C Port size
Note 3
Note 4

D Electrical connections

E Option

F Mount type

G Station no.

H Voltage

Note on model no. selection

Note 1 Select M4GB*80R when mixing with 3, 5 port valves. Select M3GB*80R when mixing with the masking plate.

Note 2 Combination with the external pilot (K) is not available. Dimensions are the same as the respective 2-position double solenoid.

Note 3 CL* push-in fitting L type is available only for the single solenoid manifold. The port A is a long elbow and the port B is short elbow.

Note 4 A/B port sizes do not differ for the push-in fitting L type (upward) (downward).

Note 5 The 4G1's C8 and 4G2's C10 do not handle the push-in fitting mix.

Note 6 Available consult factory order.

*Always indicate "Manifold specifications" (page 200 to 214).

			A Model no.				
			3GB1	3GB2	4GB1	4GB2	4GB3
Symbol	Descriptions						
B Valve Position							
1	2-position single				●	●	●
2	2-position double				●	●	●
3	3-position all ports closed				●	●	●
4	3-position A/B/R connection				●	●	●
5	3-position P/A/B connection				●	●	●
66	Dual 3 port valve integrated type Note 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 (In case of multiple Valve Positions)		●	●	●	●	●
C Port size							
port	4 (A) /2 (B) port		P/R1/R2 port (2) = Rc1/8 (3) = Rc1/4 (4) = Rc3/8				
CF	φ1.8 barbed fitting (applicable tube UP-9102-**) (2)			②			
C18	φ1.8 push-in fitting (applicable 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 (2) Note 5, Note 6		③	②	③	④	
C10	φ10 push-in fitting (2) Note 5, Note 6		③		③	④	
CL18	L type φ1.8 push-in fitting (upward) (applicable tube UP-9402-**) (2)			②			
CL4	L type φ4 push-in fitting (upward) (2)			②			
CL6	L type φ6 push-in fitting (upward) (2)			②	③		
CL8	L type φ8 push-in fitting (upward) (3)				③	④	
CL10	L type φ10 push-in fitting (upward) (4)						④
CD18	L type φ1.8 push-in fitting (downward) (applicable tube UP-9402-**) (2)		②		②		
CD4	L type φ4 push-in fitting (downward) (2)		②		②		
CD6	L type φ6 push-in fitting (downward) (2)		②	③	②	③	
CD8	L type φ8 push-in fitting (downward) (3)			③		③	④
CD10	L type 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
Port	4 (A) /2 (B) port		P/R1/R2 port (5) = 1/8NPT (6) = 1/4NPT (7) = 3/8NPT				
C3N	φ1/8 inch push-in fitting (5)				⑤		
C4N	φ5/32 inch push-in fitting (5)				⑤		
C6N	φ1/4 inch push-in fitting (6)			⑥		⑥	
C8N	φ5/16 inch push-in fitting (6)			⑥		⑥	⑦
C10N	φ3/8 inch push-in fitting (7)						⑦
CL3N	L type φ1/8 inch push-in fitting (upward) (5) Note 6				⑤		
CL4N	L type φ5/32 inch push-in fitting (upward) (5) Note 6				⑤		
CL6N	L type φ1/4 inch push-in fitting (upward) (6) Note 6					⑥	
CL8N	L type φ5/16 inch push-in fitting (upward) (6) Note 6					⑥	
CXN	Push-in fitting mix (5)		⑥	⑤	⑤	⑥	⑦
M5N	M5 (5)			⑤		⑤	
06N	1/8NPT (6)			⑥		⑥	
08N	1/4NPT (7) Note6						⑦
Port	4 (A) /2 (B) port		P/R1/R2 port (8) = G1/8 (9) = G1/4				
C4G	φ4 push-in fitting (8)		⑧	⑨	⑧	⑨	
C6G	φ6 push-in fitting (8)		⑧	⑨	⑧	⑨	
C8G	φ8 push-in fitting (9)			⑨		⑨	
CL4G	L type φ4 push-in fitting (upward) (8) Note 6				⑧		
CL6G	L type φ6 push-in fitting (upward) (8) Note 6				⑧	⑨	
CL8G	L type φ8 push-in fitting (upward) (9) Note 6					⑨	
CXG	Push-in fitting mix (8)		⑧	⑨	⑧	⑨	
M5G	M5 (8)				⑧		
06G	G1/8 (9)			⑨		⑨	
00	Discrete valve for mounting base		●	●	●	●	●

M4GB1/2/3 Series

Individual wiring manifold; base piping

		A Model no.				
		3GB1	3GB2	4GB1	4GB2	4GB3
D Electrical connections						
Blank	Grommet lead wire (300 mm)	Note17	●	●	●	●
B	DIN terminal box (Pg7)	With surge suppressor/light Note18	●	●	●	●
BN	DIN terminal box (Pg7) (without terminal box) with surge suppressor	Note 18	●	●	●	●
E type connector (upward/lateral direction common)						
E0	Lead wire (300 mm)	Note19	●	●	●	●
E00	Lead wire (500mm)	Note19	●	●	●	●
E01	Lead wire (1000 mm)	Note19	●	●	●	●
E02	Lead wire (2000mm)	Note19	●	●	●	●
E03	Lead wire (3000mm)	Note19	●	●	●	●
E0N	Without lead wire (without socket)	Note19	●	●	●	●
E1	Without lead wire (with socket/terminal)	Note19	●	●	●	●
E2	Lead wire (300 mm)	With surge suppressor/light	●	●	●	●
E20	Lead wire (500mm)	With surge suppressor/light	●	●	●	●
E21	Lead wire (1000 mm)	With surge suppressor/light	●	●	●	●
E22	Lead wire (2000mm)	With surge suppressor/light	●	●	●	●
E23	Lead wire (3000mm)	With surge suppressor/light	●	●	●	●
E2N	Without lead wire (without socket)	With surge suppressor/light	●	●	●	●
E3	Without lead wire (with socket/terminal)	With surge suppressor/light	●	●	●	●
EJ type connector (socket with cover, upward/lateral direction common)						
E01J	Lead wire (1000 mm)	Note19	●	●	●	●
E02J	Lead wire (2000mm)	Note19	●	●	●	●
E03J	Lead wire (3000mm)	Note19	●	●	●	●
E21J	Lead wire (1000 mm)	With surge suppressor/light	●	●	●	●
E22J	Lead wire (2000mm)	With surge suppressor/light	●	●	●	●
E23J	Lead wire (3000mm)	With surge suppressor/light	●	●	●	●
E Option						
Blank	Non-locking/locking common manual override		●	●	●	●
M	Non-locking manual override		●	●	●	●
H	With check valve	Note 7	●	●	●	●
K	External pilot	Note 8	●	●	●	●
A	Ozone/cutting oil proof		●	●	●	●
S	surgeless	Note 9	●	●	●	●
E	Low heat energy-saving circuit	Note 9, Note 10	●	●	●	●
F	A/B port filter integrated	Note 11	●	●	●	●
Z1	Air supply spacer	Note 12	●	●	●	●
Z2	In stop valve spacer	Note 12, Note 13	●	●	●	●
Z3	Exhaust spacer	Note 12	●	●	●	●
Z6	Spacer type pilot check valve	Note 12, Note 14	●	●	●	●
F Mount type						
Blank	Direct mount type	Note 15	●	●	●	●
D	DIN rail mount type		●	●	●	●
G Station no.						
2	2 stations		●	●	●	●
to	to		●	●	●	●
20	Refer to page 106 for the max. station no. for each model.		●	●	●	●
H Voltage						
1	100 VAC (rectifier integrated)		●	●	●	●
2	200 VAC (rectifier integrated)	Note 16	●	●	●	●
3	24 VDC		●	●	●	●
4	12 VDC		●	●	●	●
7	3 VDC		○	○	○	○
8	5 VDC		○	○	○	○

is not available.

○ Contact CKD for price and availability.

Note 7 3-position all ports closed and PAB connection are not provided with check valve (H).

Refer to page 628 for details on check valve.

Note 8 Consult with CKD when using a vacuum with the external pilot (K).

Note 9 Only the E2* type, E2* J type connector and 12/24 VDC are supported.

In addition, the surgeless "S" and low heat energy-saving circuit "E" cannot be selected at the same time.

Note 10 This is surgeless specifications.

Note 11 The P port has a filter built inside as a standard.

Note 12 Specify the spacer mounting location and quantity in manifold specifications.

Stacking multiple spacers is not supported.

Combination with the masking plate is not supported.

Refer to page 180 to 184 for details.

Note 13 Combination with the external pilot (K) is not available.

Note 14 Combination with the push-in fitting L type (upward) is not available.

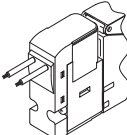
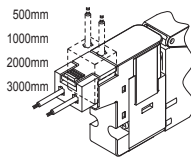
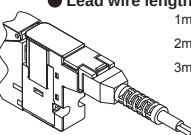
Note 15 The direct mount type of M4GB1 cannot be changed to the DIN rail mount type after purchase.

Note 16 Only the DIN terminal box are supported.

Note 17 Grommet lead wire specifications are only for DC voltage.

Note 18 Supports AC voltage and 12/24 VDC. The light is also attached to the terminal box.

Note 19 AC voltage comes 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 300mm	
E0 E2	E type connector
● Lead wire length 300mm 500mm 1000mm 2000mm 3000mm	
E0N E2N	E type connector without socket
BN	DIN terminal box (Without terminal box)
E0J E2J	EJ-connector
● Lead wire length 1m 2m 3m	

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

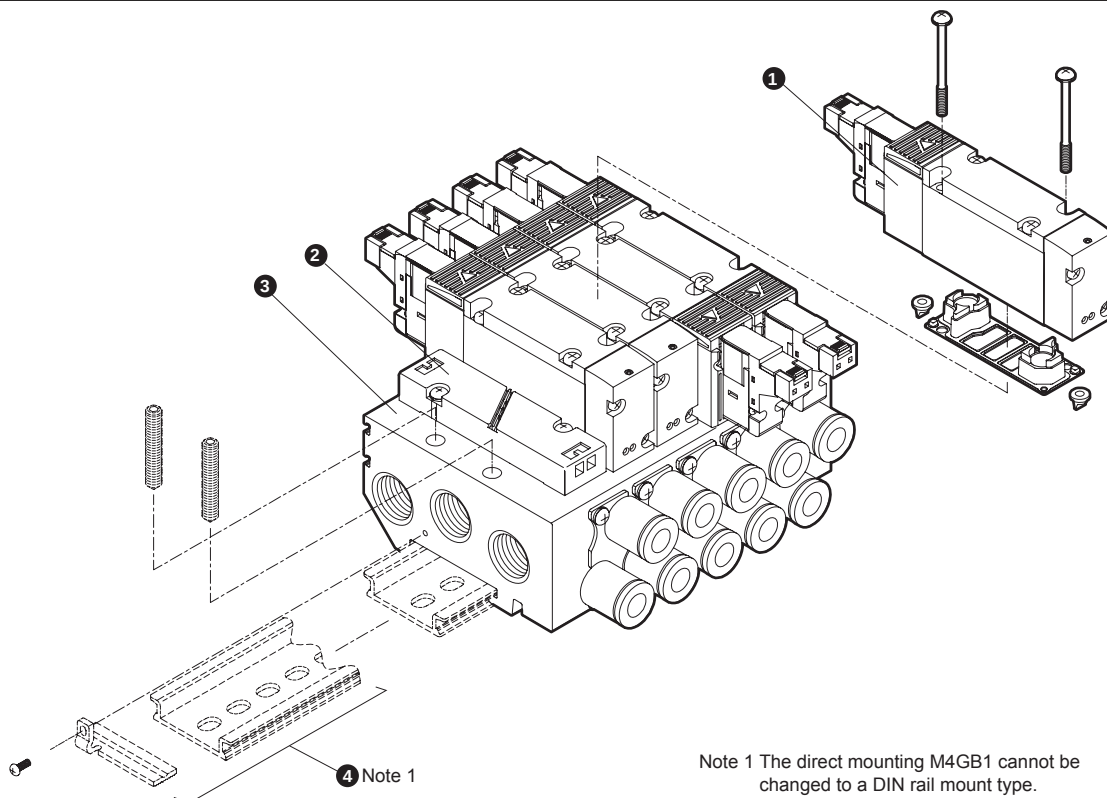
Safety
precautions

Manifold
Specifications

M4GB1/2/3 Series

Individual wiring manifold; base piping

Manifold components explanation and parts list



Note 1 The direct mounting M4GB1 cannot be changed to a DIN rail mount type.

Main components list

No.	Component name	Model no.	Descriptions	Remarks
1	Discrete valve for mounting base	4GB ** 9R -00 Electrical connections Option Voltage Valve Position Series flow rate size	Discrete valve Gasket Set screw 2 PR check valve 2	Details on page 108
2	Masking plate	3G1 & 4G1 4G1R-MP 3G2 & 4G2 4G2R-MP 3G3 & 4G3 4G3R-MP	Masking plate Gasket Set screw 2	* 3G3 and 4G3 have two PR check valves.
3	Manifold base assembly	M4GB * R - Electrical connections - Option - D Station no. Series flow rate size Mount type	Manifold base	The mount type selection is only 4G1. Even if the mount type "D" is selected, the DIN rail kit shall be prepared separately.
4	DIN rail kit			Details on page 191

Parts list

No.	Parts name	Model no.	No.	Parts name	Model no.
-	Coil assembly	4GR - Electric connection * - COIL - Voltage Blank: Standard A: Ozone/cutting oil proof Select from Electrical connections on page 95 ①	-	Cartridge type push-in fitting and related parts	4G1 ϕ1.8 barbed type 4G1R-JOINT-CF ϕ1.8 straight type 4G1R-JOINT-C18 ϕ4 straight type 4G1R-JOINT-C4 ϕ6 straight type 4G1R-JOINT-C6 ϕ8 straight type 4G1R-JOINT-C8 ϕ1.8 elbow type 4G1R-JOINT-CL18,CLL18 ϕ4 elbow type 4G1R-JOINT-CL4,CLL4 ϕ6 elbow type 4G1R-JOINT-CL6,CLL6 ϕ1/8 inch Straight type 4G1R-JOINT-C3N ϕ5/32 inch Straight type 4G1R-JOINT-C4N ϕ1/8 inch elbow type Note 1 4G1R-JOINT-CL3N ϕ5/32 inch elbow type Note 1 4G1R-JOINT-CL4N Plug cartridge 4G1R-JOINT-CPG
-	E type connector Socket assembly	4GR-SOCKET-ASSY- Electric wire Connection - Voltage			4G2 ϕ4 straight type 4G2R-JOINT-C4 ϕ6 straight type 4G2R-JOINT-C6 ϕ8 straight type 4G2R-JOINT-C8 ϕ10 straight type Note 2 4G2R-JOINT-C10 ϕ6 elbow type 4G2R-JOINT-CL6,CLL6 ϕ8 elbow type 4G2R-JOINT-CL8,CLL8 ϕ1/4 inch straight type 4G2R-JOINT-C6N ϕ5/16 inch straight type 4G2R-JOINT-C8N ϕ1/4 inch elbow type Note 1 4G2R-JOINT-CL6N ϕ5/16 inch elbow type Note 1 4G2R-JOINT-CL8N Plug cartridge 4G2R-JOINT-CPG
-	E type connector Socket assembly	4GR-SOCKET-ASSY- Electric wire Connection			4G3 ϕ6 straight type 4G3R-JOINT-C6 ϕ8 straight type 4G3R-JOINT-C8 ϕ10 straight type 4G3R-JOINT-C10 ϕ8 elbow type 4G3R-JOINT-CL8,CLL8 ϕ10 elbow type 4G3R-JOINT-CL10,CLL10 ϕ5/16 inch straight type 4G3R-JOINT-C8N ϕ3/8 inch straight type 4G3R-JOINT-C10N

Note 1: Available consult factory order.

Note 2: These are common parts with the ϕ 10 straight type for the 4G3.

4GA/B

M4GA/B

MN4GA/B

4GA/B
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GB1 Series

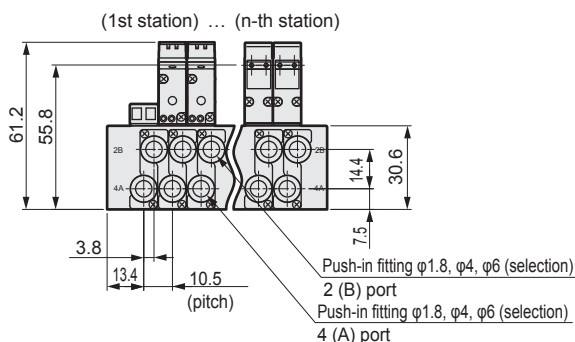
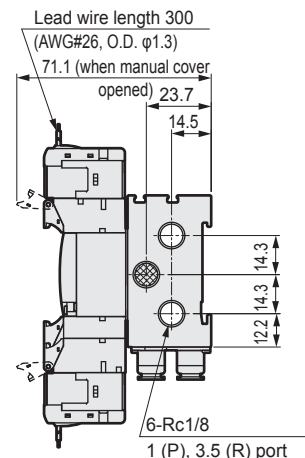
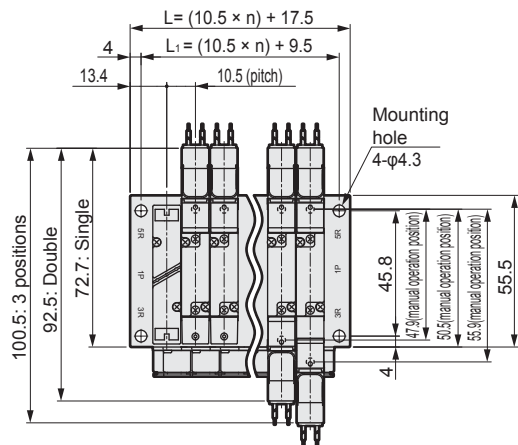
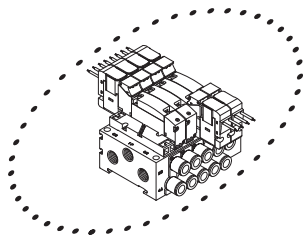
Individual wiring manifold; base piping

Dimensions



M4GB1

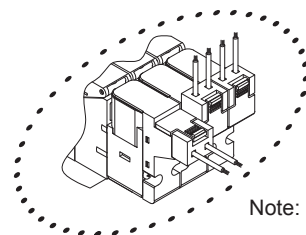
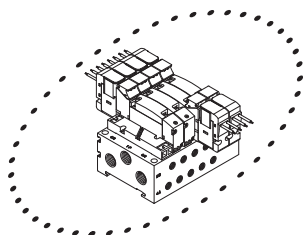
- Direct mount installation
- Grommet lead wire (blank)



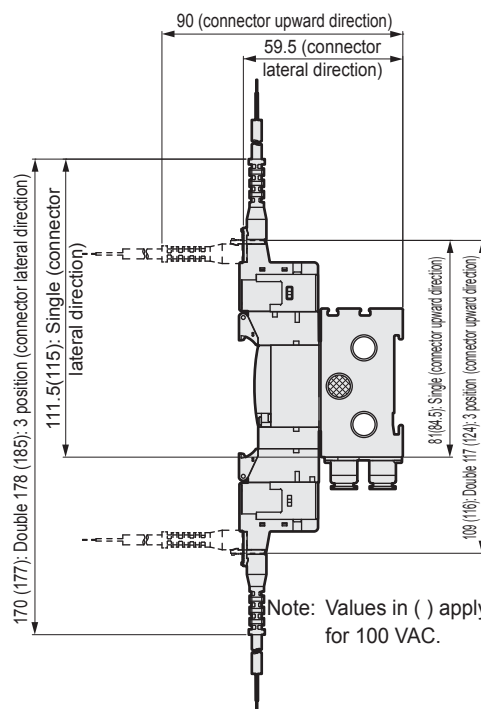
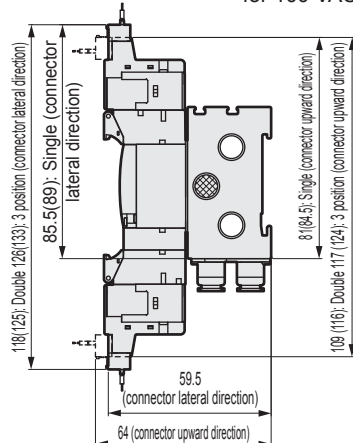
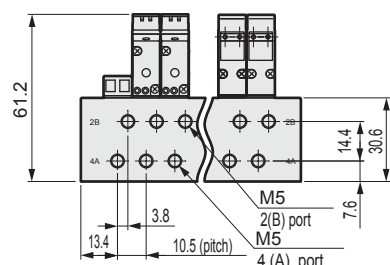
- M5 female thread type (M5)

- E type connector type (E)

- EJ type connector type (E**J)



Note: Values in () apply for 100 VAC.



Note: Values in () apply for 100 VAC.

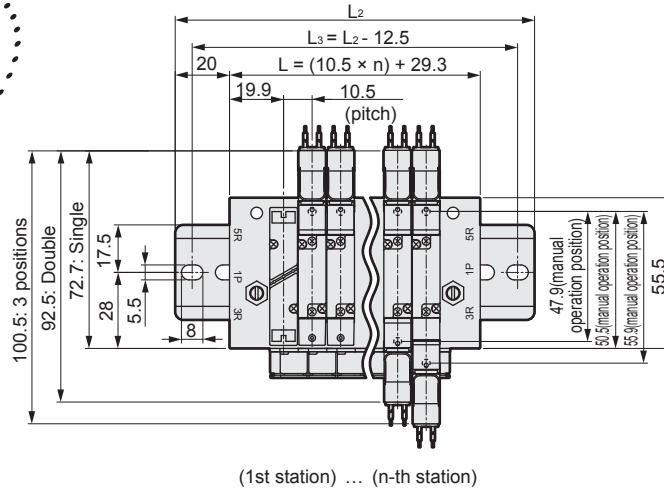
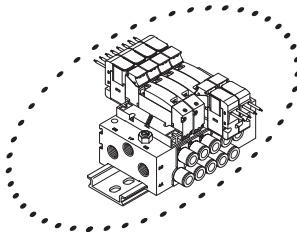
Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	38.5	49.0	59.5	70.0	80.5	91.0	101.5	112.0	122.5	133.0	143.5	154.0	164.5	175.0	185.5	196.0	206.5	217.0	227.5
L ₁	30.5	41.0	51.5	62.0	72.5	83.0	93.5	104.0	114.5	125.0	135.5	146.0	156.5	167.0	177.5	188.0	198.5	209.0	219.5

Dimensions

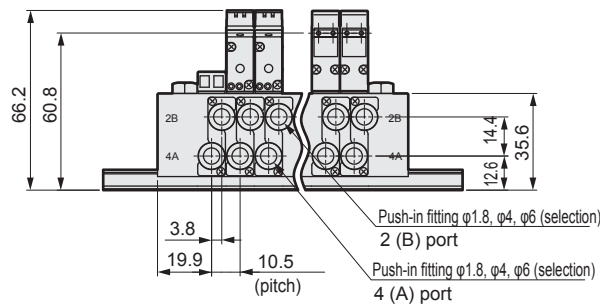
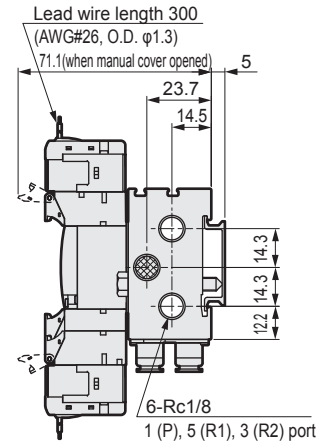


M4GB1

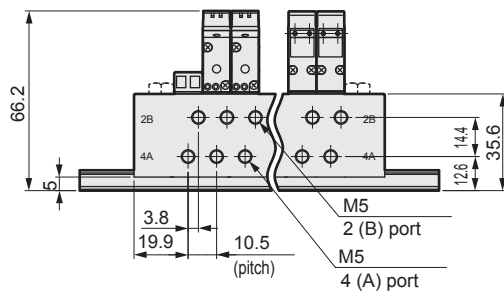
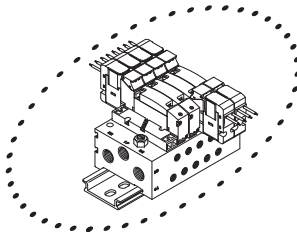
- DIN rail installation (D)
Grommet lead wire (blank)



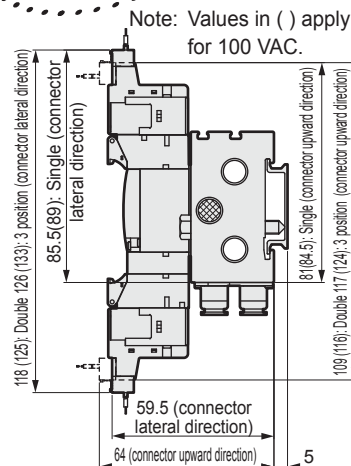
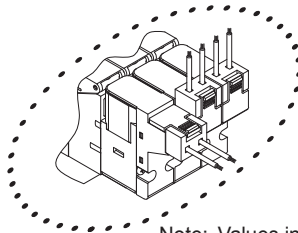
- Note 1 Can be changed to direct mounting.
 Note 2 The dimension of dual 3 port valve integrated type is the same as that of the double type.



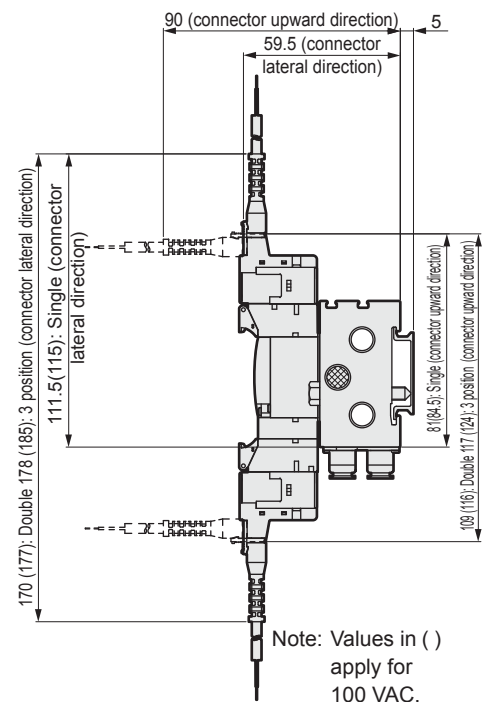
- DIN rail installation (D)
M5 female thread type (M5)



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

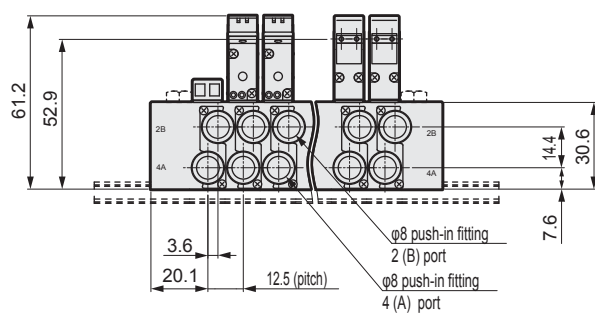
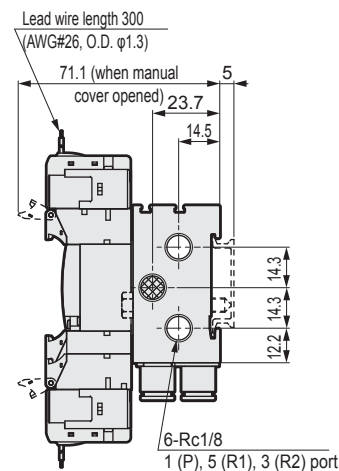


- EJ type connector type (E**J)

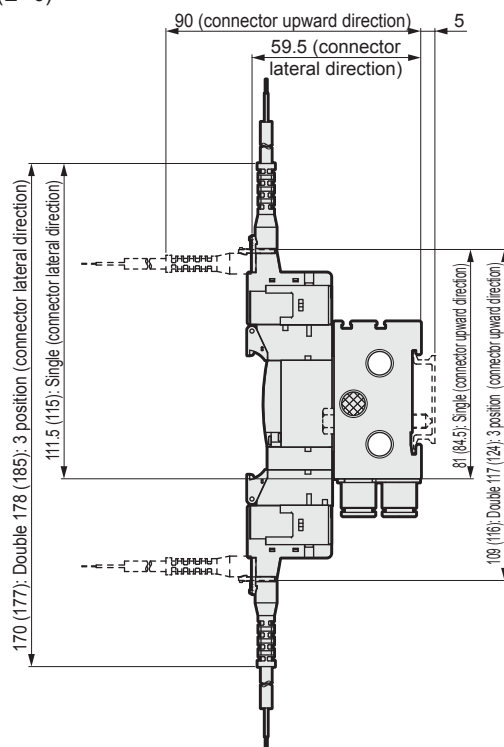
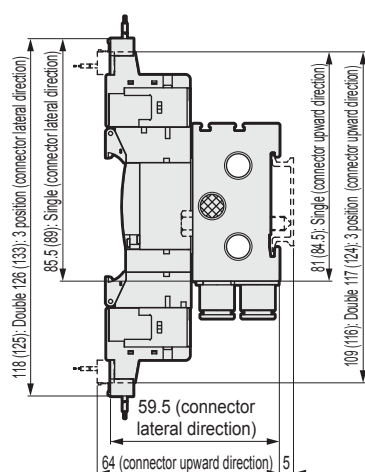


Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	50.3	60.8	71.3	81.8	92.3	102.8	113.3	123.8	134.3	144.8	155.3	165.8	176.3	186.8	197.3
L ₂	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0	212.5	225.0	237.5	237.5
L ₃	87.5	100.0	100.0	112.5	125.0	137.5	150.0	162.5	162.5	175.0	187.5	200.0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

- Grommet lead wire (blank)



EJ type connector type (E**J)



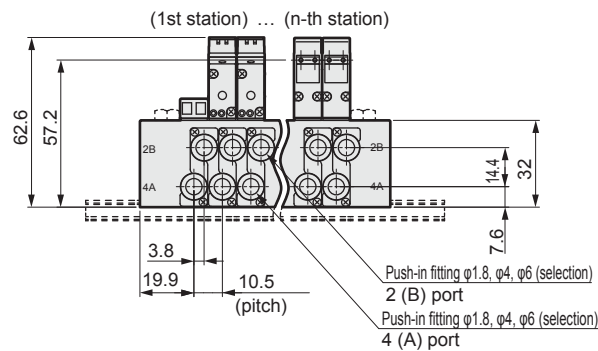
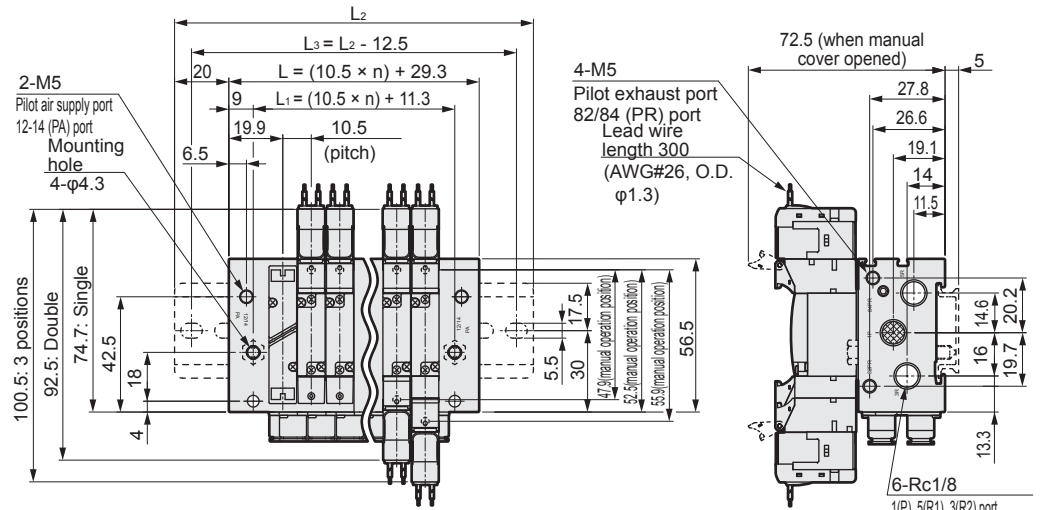
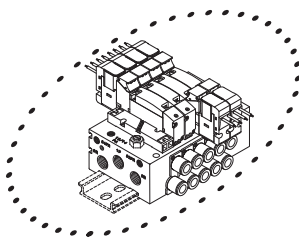
Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	52.8	65.3	77.8	90.3	102.8	115.3	127.8	140.3	152.8	165.3	177.8	190.3	202.8	215.3	227.8	240.3	252.8	265.3	277.8
L ₁	42.8	55.3	67.8	80.3	92.8	105.3	117.8	130.3	142.8	155.3	167.8	180.3	192.8	205.3	217.8	230.3	242.8	255.3	267.8
L ₂	100.0	112.5	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 ₃	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

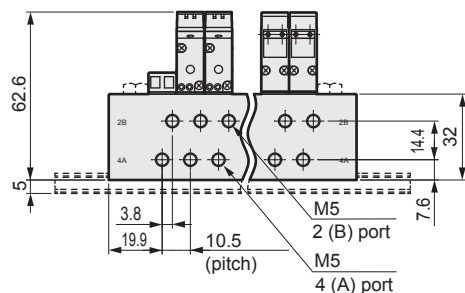
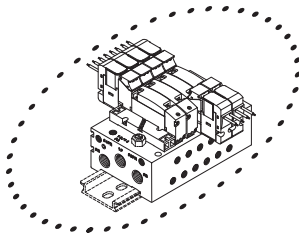


M4GB1

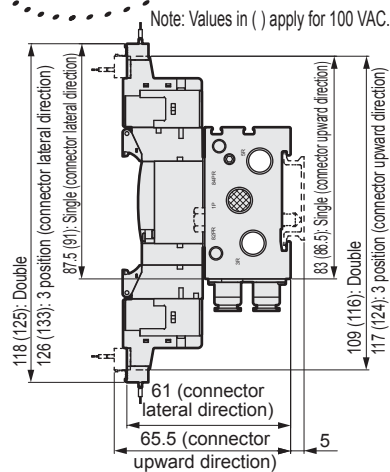
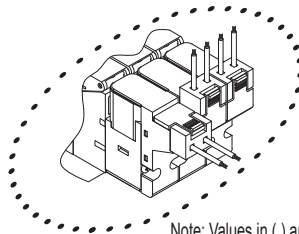
- External pilot (K)
- Grommet lead wire (blank)



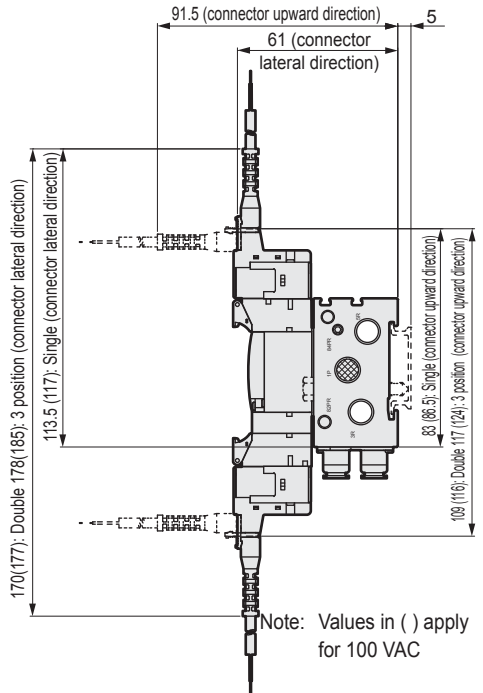
- External pilot (K)
- M5 female thread type (M5)



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



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



Station 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 ₁	32.3	42.8	53.3	63.8	74.3	84.8	95.3	105.8	116.3	126.8	137.3
L ₂	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0
L ₃	87.5	100.0	100.0	112.5	125.0	137.5	150.0	162.5	162.5	175.0	187.5

M4GB1 Series

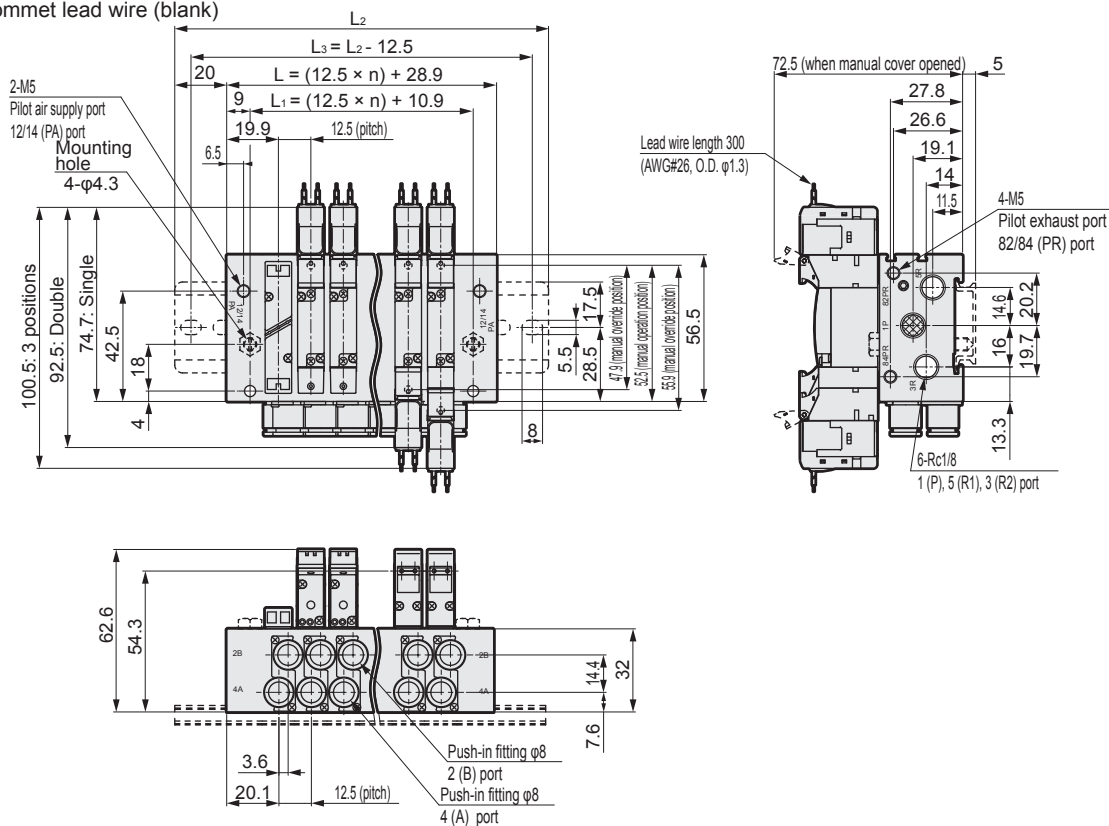
Individual wiring manifold; base piping

Dimensions

M4GB1-C8-K

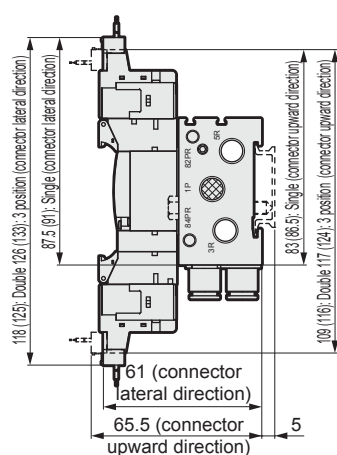
● External pilot (K)

Grommet lead wire (blank)



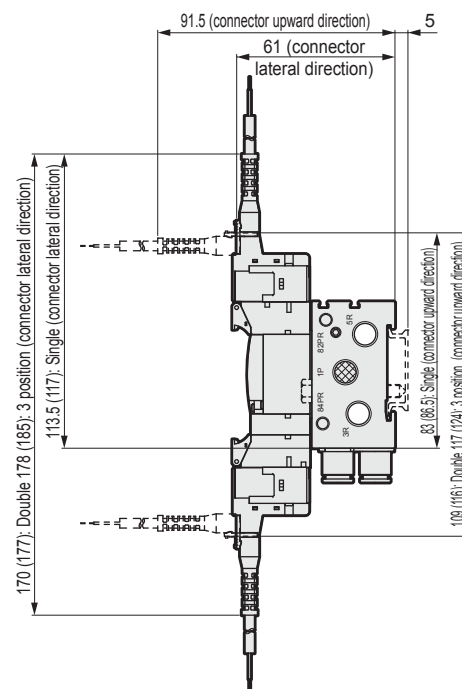
● External pilot (K)

E type connector type (E)



● External pilot (K)

EJ type connector type (E**J)



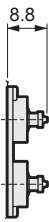
Station no.	2	3	4	5	6	7	8	9	10	11	12
L	53.9	66.4	78.9	91.4	103.9	116.4	128.9	141.4	153.9	166.4	178.9
L ₁	35.9	48.4	60.9	73.4	85.9	98.4	110.9	123.4	135.9	148.4	160.9
L ₂	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0
L ₃	87.5	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5

Dimensions

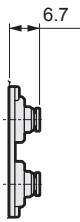


● Fitting straight

● $\phi 1.8$ (CF)



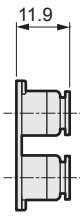
● $\phi 1.8$ (C18)



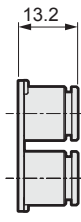
● $\phi 4$ (C4)



● $\phi 6$ (C6)

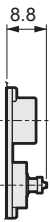


● $\phi 8$ (C8)

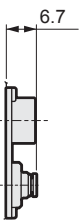


● Fitting straight, single plug

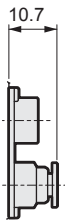
● $\phi 1.8$ (CFNC)



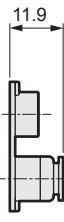
● $\phi 1.8$ (C18NC)



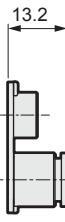
● $\phi 4$ (C4NC)



● $\phi 6$ (C6NC)



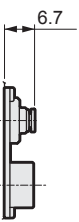
● $\phi 8$ (C8NC)



● $\phi 1.8$ (CFNO)



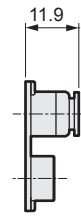
● $\phi 1.8$ (C18NO)



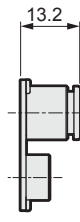
● $\phi 4$ (C4NO)



● $\phi 6$ (C6NO)



● $\phi 8$ (C8NO)

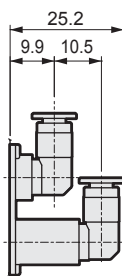


● Fitting L type (upward)

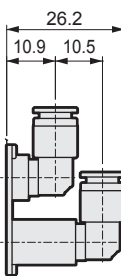
● $\phi 1.8$ (CL18)



● $\phi 4$ (CL4)

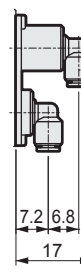


● $\phi 6$ (CL6)

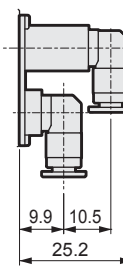


● Fitting L type (downward)

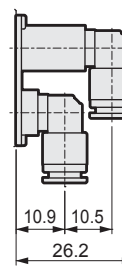
● $\phi 1.8$ (CD18)



● $\phi 4$ (CD4)

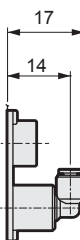


● $\phi 6$ (CD6)

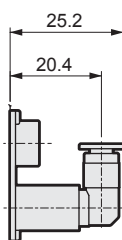


● Fitting L type (upward), single plug

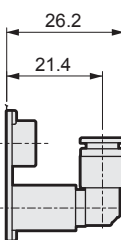
● $\phi 1.8$ (CL18NC)



● $\phi 4$ (CL4NC)



● $\phi 6$ (CL6NC)



● $\phi 1.8$ (CL18NO)



● $\phi 4$ (CL4NO)



● $\phi 6$ (CL6NO)

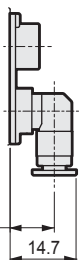


● Push-in fitting L (downward), single plug

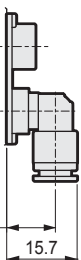
● $\phi 1.8$ (CD18NC)



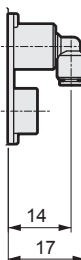
● $\phi 4$ (CD4NC)



● $\phi 6$ (CD6NC)



● $\phi 1.8$ (CD18NO)



● $\phi 4$ (CD4NO)



● $\phi 6$ (CD6NO)



M4GB1 Series

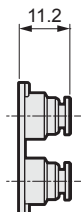
Individual wiring manifold; base piping

Dimensions

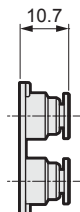
4GAB
M4GA/B
MN4GA/B
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

● Fitting straight

● $\phi 1/8$ inch (C3N)

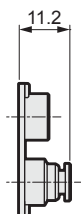


● $\phi 5/32$ inch (C4N)

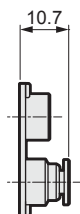


● Fitting straight, single plug

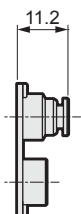
● $\phi 1/8$ inch (C3NCN)



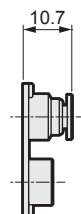
● $\phi 5/32$ inch (C4NCN)



● $\phi 1/8$ inch (C3NON)

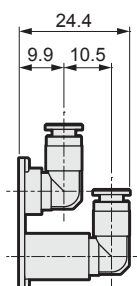


● $\phi 5/32$ inch (C4NON)

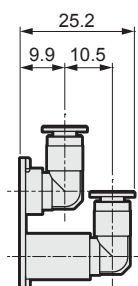


● Fitting L type (upward)

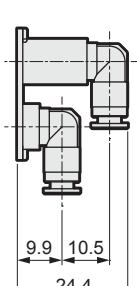
● $\phi 1/8$ inch (CL3N)



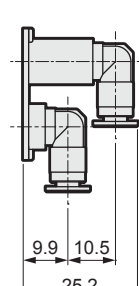
● $\phi 5/32$ inch (CL4N)



● $\phi 1/8$ inch (CD3N)

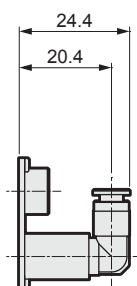


● $\phi 5/32$ inch (CD4N)

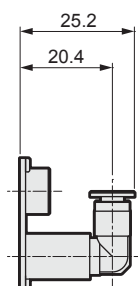


● Fitting L type (upward), single plug

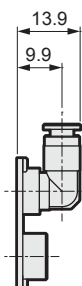
● $\phi 1/8$ inch (CL3NCN)



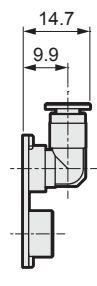
● $\phi 5/32$ inch (CL4NCN)



● $\phi 1/8$ inch (CL3NON)

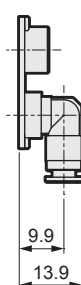


● $\phi 5/32$ inch (CL4NON)

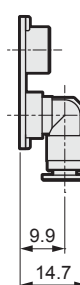


Push-in fitting L (downward), single plug

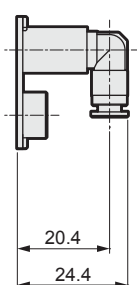
● $\phi 1/8$ inch (CD3NCN)



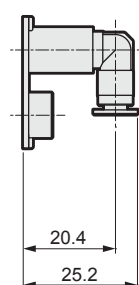
● $\phi 5/32$ inch (CD4NCN)



● $\phi 1/8$ inch (CD3NON)



● $\phi 5/32$ inch (CD4NON)



4GA/B	M4GA/B	MN4GA/B	4GA/B Master valve	4GD/E	M4GD/E	MN4GD/E	Technical data	Safety precautions	Manifold Specifications
-------	--------	---------	-----------------------	-------	--------	---------	----------------	-----------------------	----------------------------

M4GB2 Series

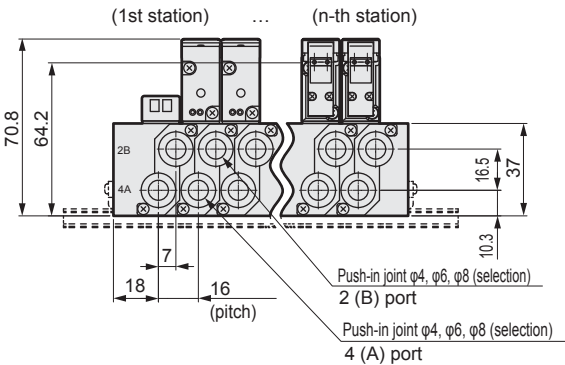
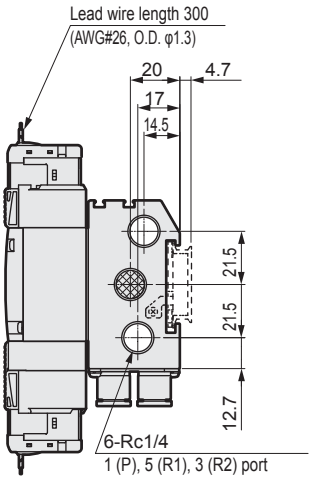
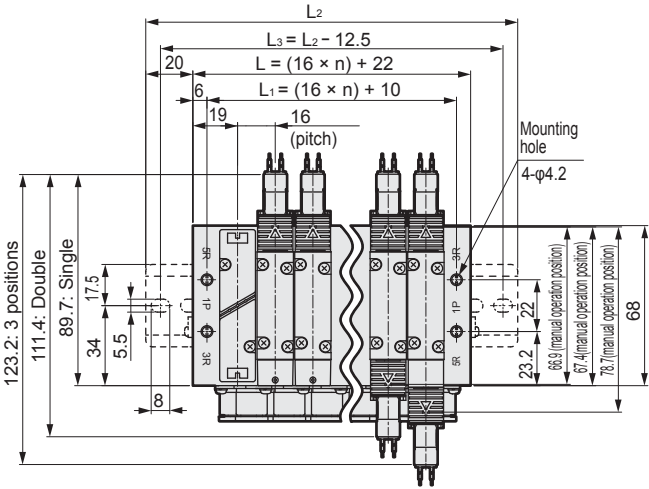
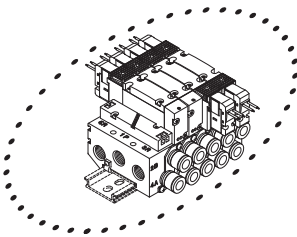
Individual wiring manifold; base piping

Dimensions

M4GB2

- Grommet lead wire (blank)

Note The dimension of dual 3 port valve integrated type is the same as that of the double type.

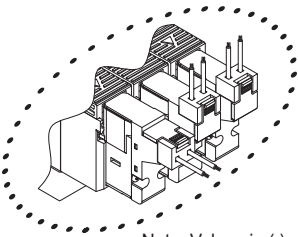
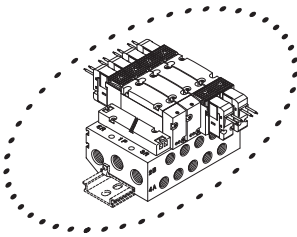


- Rc1/8 Female thread type (06)

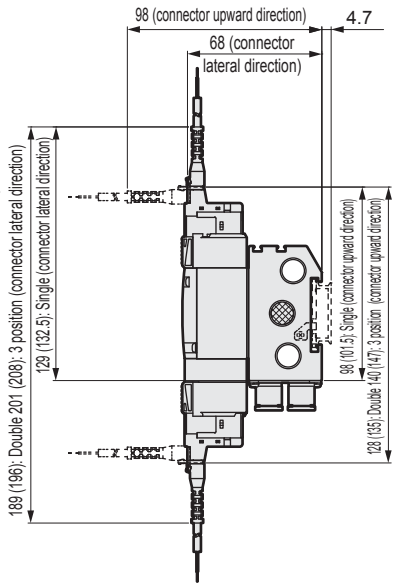
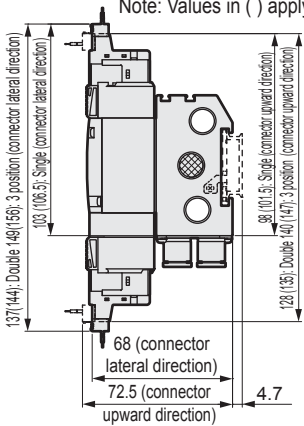
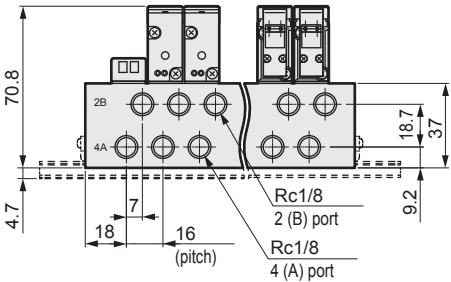
- E type connector type (E)

- EJ type connector type (E**J)

Note: Values in () apply for 100 VAC.



Note: Values in () apply for 100 VAC.

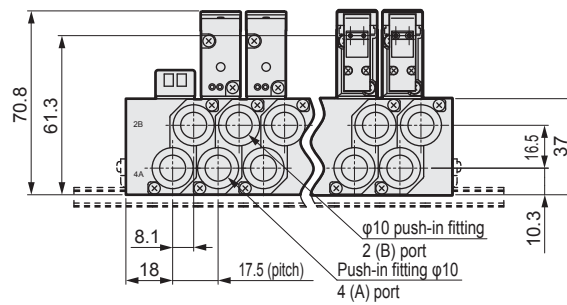
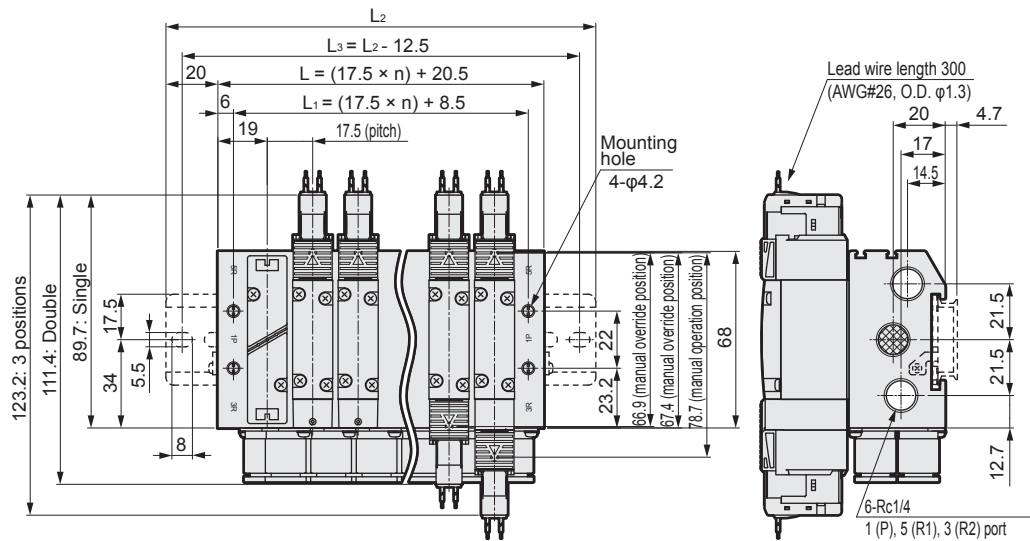


Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	54.0	70.0	86.0	102.0	118.0	134.0	150.0	166.0	182.0	198.0	214.0	230.0	246.0	262.0	278.0	294.0	310.0	326.0	342.0
L ₁	42.0	58.0	74.0	90.0	106.0	122.0	138.0	154.0	170.0	186.0	202.0	218.0	234.0	250.0	266.0	282.0	298.0	314.0	330.0
L ₂	100.0	112.5	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 ₃	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				

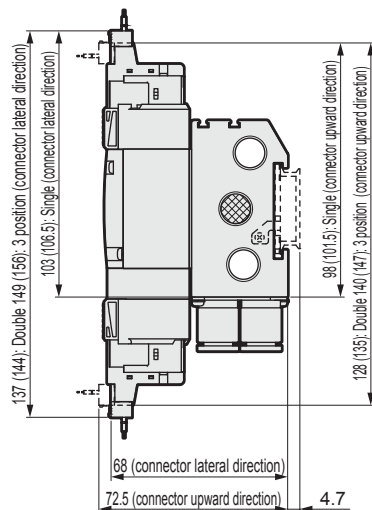
Dimensions

M4GB2-C10

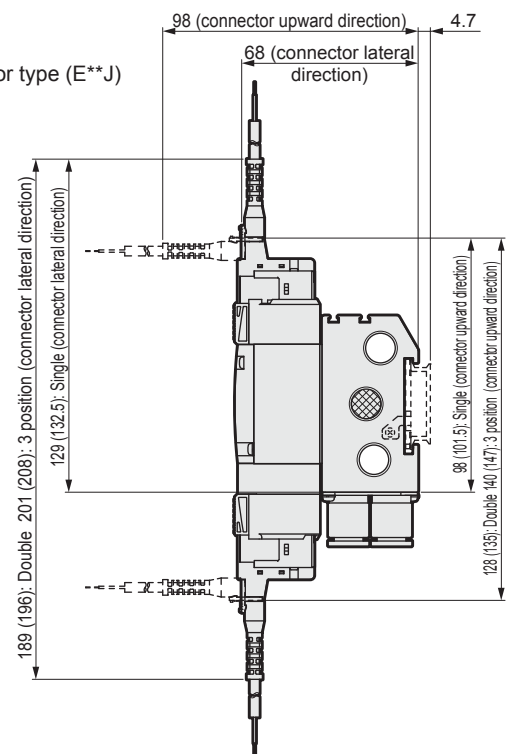
- Grommet lead wire (blank)



- E type connector type (E)



- EJ type connector type (E**J)



Station 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 ₁	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 ₂	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 ₃	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					

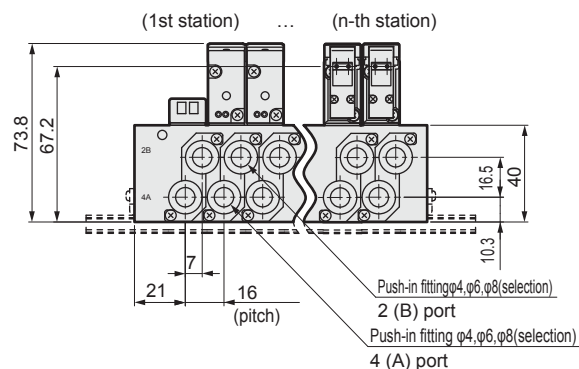
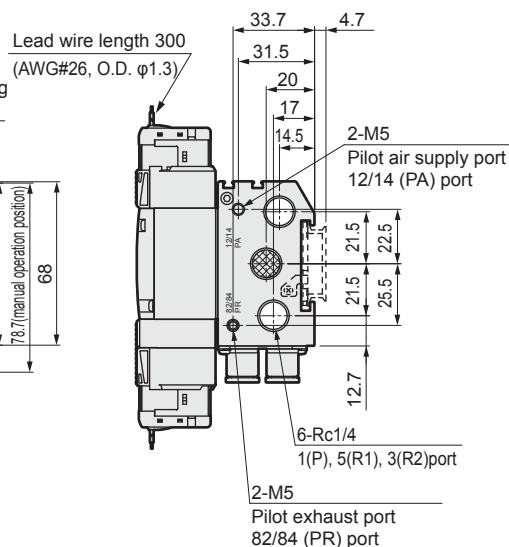
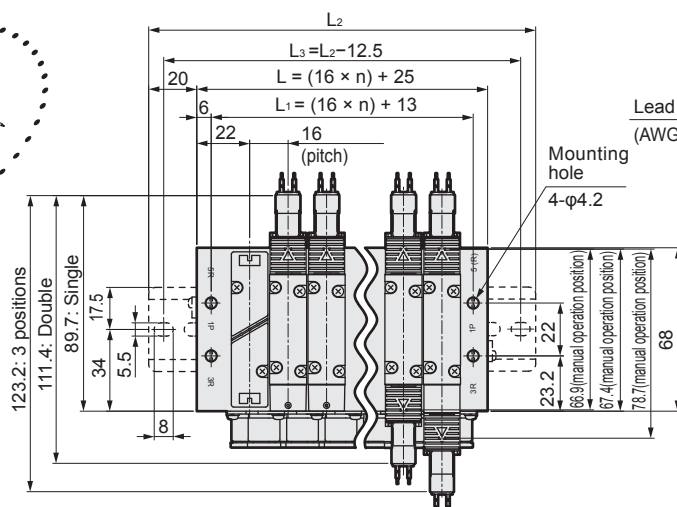
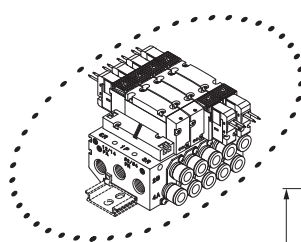
Individual wiring manifold; base piping

Dimensions



M4GB2

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

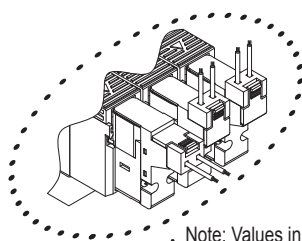
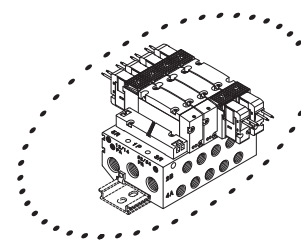


- External pilot (K)
Rc1/8 female thread type (06)

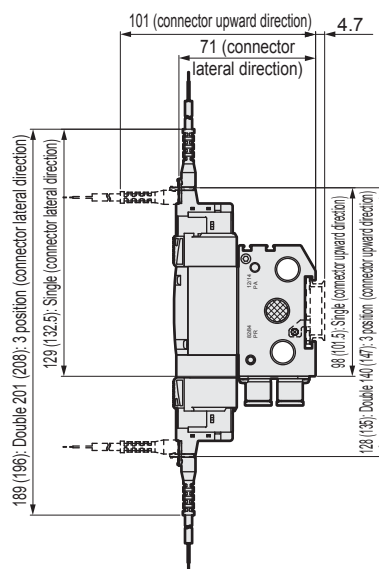
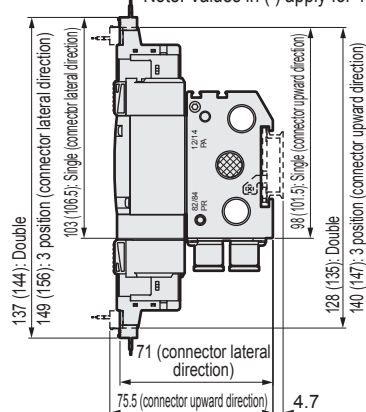
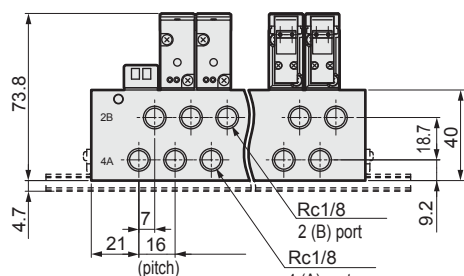
- External pilot (K)
E type connector type (E)

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

Note: Values in () apply for 100 VAC



Note: Values in () apply for 100 VAC.

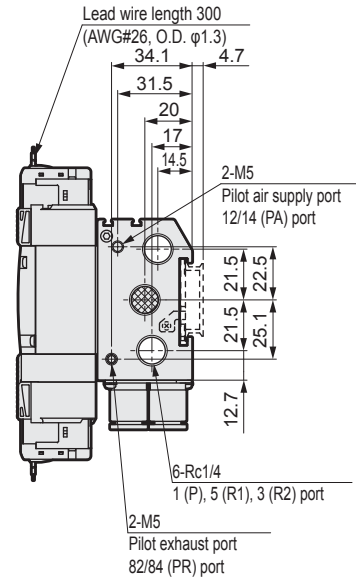
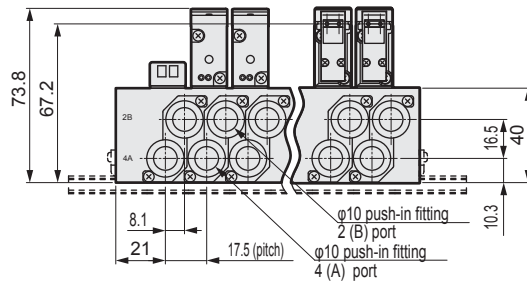
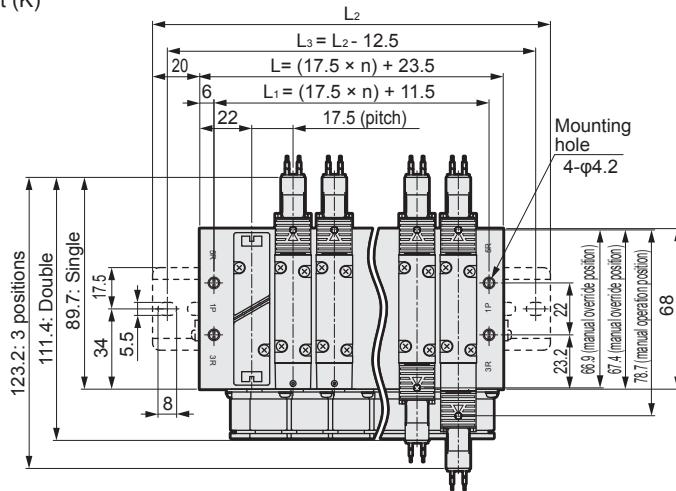


Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	57.0	73.0	89.0	105.0	121.0	137.0	153.0	169.0	185.0	201.0	217.0	233.0	249.0	265.0	281.0	297.0	313.0	329.0	345.0
L ₁	45.0	61.0	77.0	93.0	109.0	125.0	141.0	157.0	173.0	189.0	205.0	221.0	237.0	253.0	269.0	285.0	301.0	317.0	333.0
L ₂	100.0	125.0	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 ₃	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				

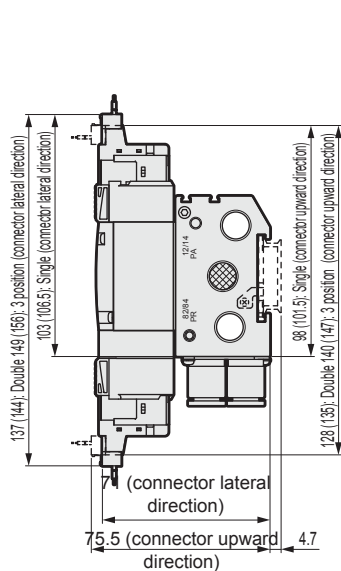
Dimensions

M4GB2-C10-K

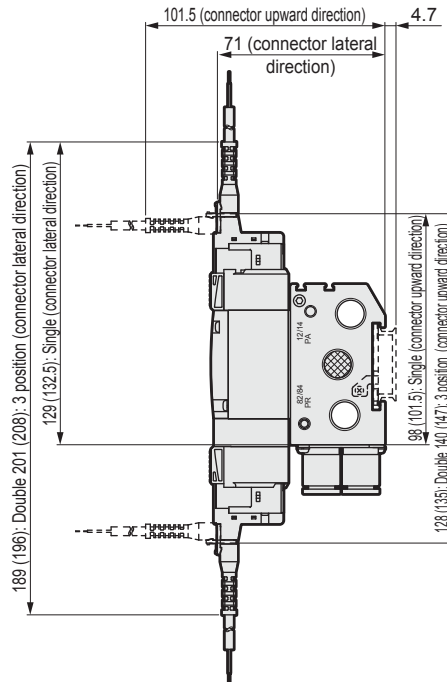
- Grommet lead wire (blank)
External pilot (K)



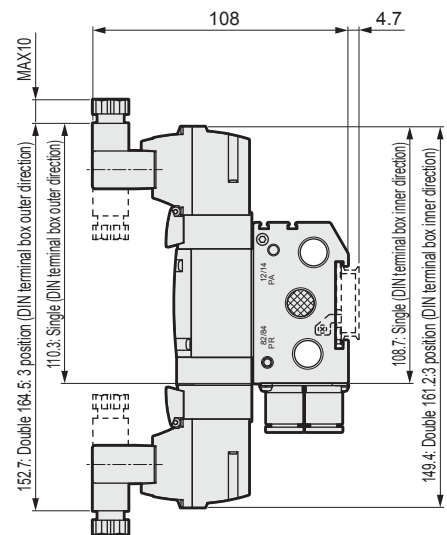
- External pilot (K)
E type connector type (E)



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



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



Station 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 ₁	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 ₂	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 ₃	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				

M4GB2 Series

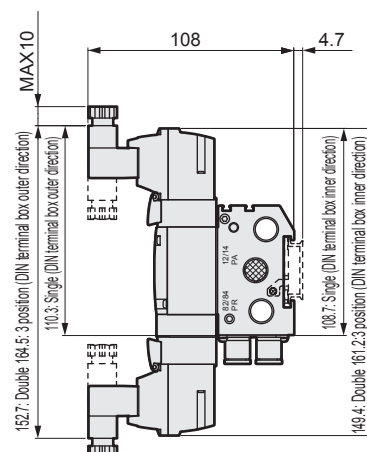
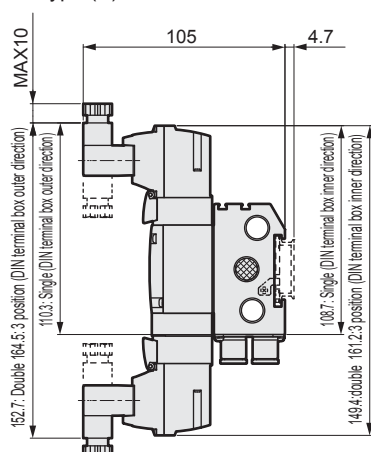
Individual wiring manifold; base piping

Dimensions

● DIN terminal box type (B)

● External pilot

DIN terminal box type (B)



Note: The DIN terminal box assembly is shipped facing inward.

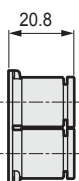
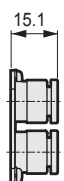
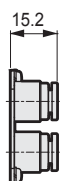
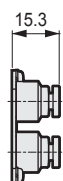
● Fitting straight

● $\phi 4$ (C4)

● $\phi 6$ (C6)

● $\phi 8$ (C8)

● $\phi 10$ (C10)



● Fitting straight, single plug

● $\phi 4$ (C4NC)

● $\phi 6$ (C6NC)

● $\phi 8$ (C8NC)

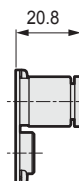
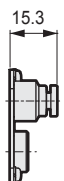
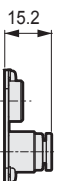
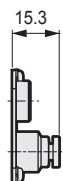
● $\phi 10$ (C10NC)

● $\phi 4$ (C4NO)

● $\phi 6$ (C6NO)

● $\phi 8$ (C8NO)

● $\phi 10$ (C10NO)



● Fitting L type (upward)

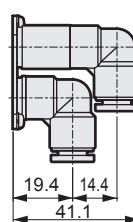
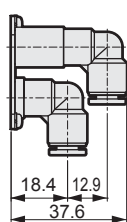
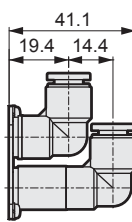
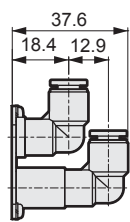
● $\phi 6$ (CL6)

● $\phi 8$ (CL8)

● Fitting L type (downward)

● $\phi 6$ (CD6)

● $\phi 8$ (CD8)



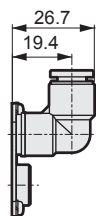
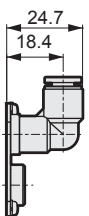
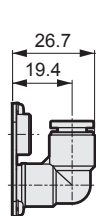
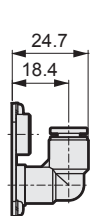
● Fitting L type (upward), single plug

● $\phi 6$ (CL6NC)

● $\phi 8$ (CL8NC)

● $\phi 6$ (CL6NO)

● $\phi 8$ (CL8NO)



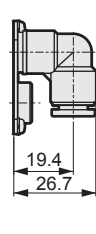
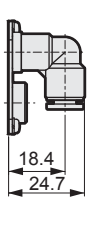
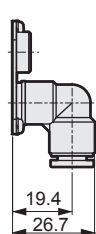
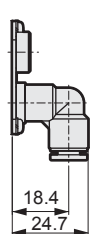
● Fitting L type (downward), single plug

● $\phi 6$ (CD6NC)

● $\phi 8$ (CD8NC)

● $\phi 6$ (CD6NO)

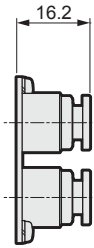
● $\phi 8$ (CD8NO)



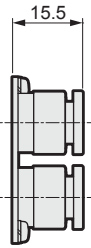
Dimensions

- Fitting straight

- $\phi 1/4$ inch (C6N)

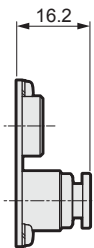


- $\phi 5/16$ inch (C8N)

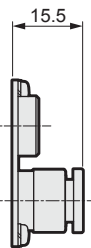


- Fitting straight, single plug

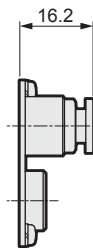
- $\phi 1/4$ inch (C6NCN)



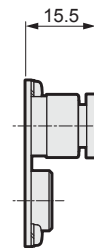
- $\phi 5/16$ inch (C8NCN)



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

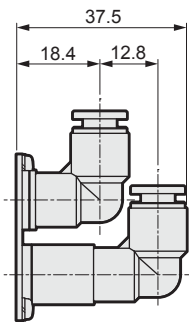


- $\phi 5/16$ inch (C8NON)

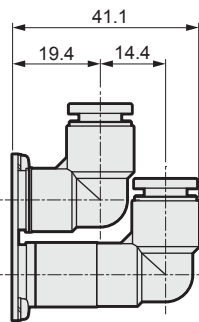


- Fitting L type (upward)

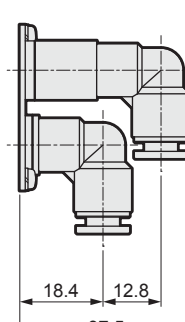
- $\phi 1/4$ inch (CL6N)



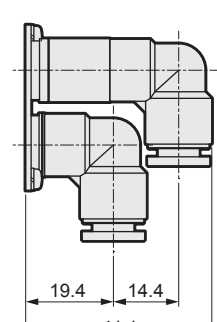
- $\phi 5/16$ inch (CL8N)



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

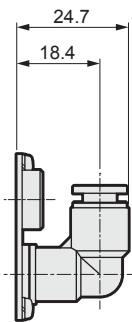


- $\phi 5/32$ inch (CD8N)

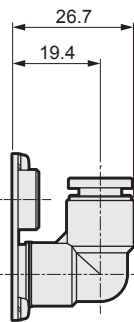


- Fitting L type (upward), single plug

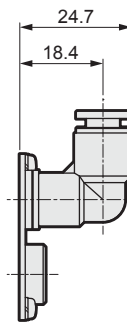
- $\phi 1/4$ inch (CL6NCN)



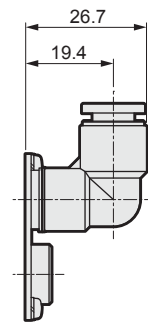
- $\phi 5/16$ inch (CL8NCN)



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

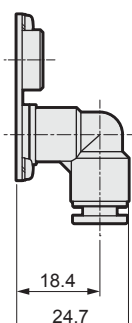


- $\phi 5/16$ inch (CL8NON)

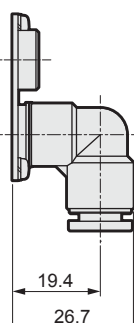


- Fitting L type (downward), single plug

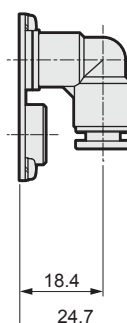
- $\phi 1/4$ inch (CD6NCN)



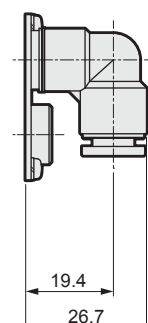
- $\phi 5/16$ inch (CD8NCN)



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



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



M4GB3 Series

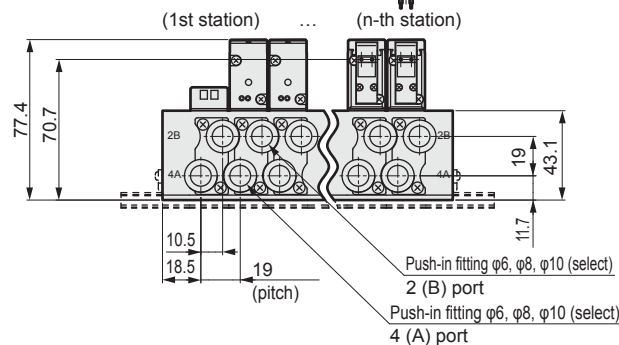
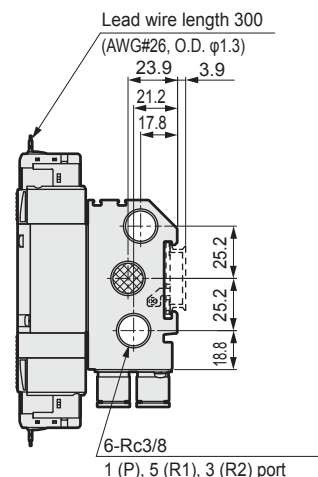
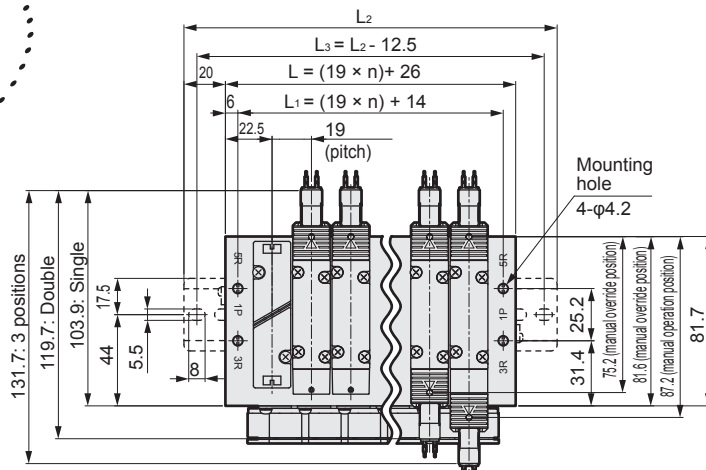
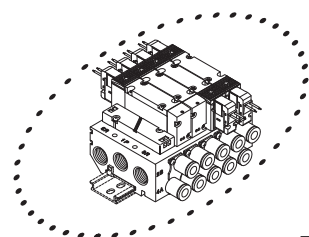
Individual wiring manifold; base piping

Dimensions



M4GB3

- Grommet lead wire (blank)

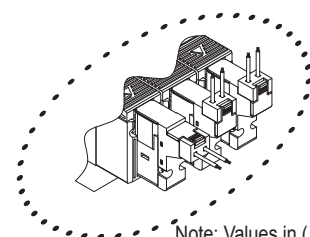
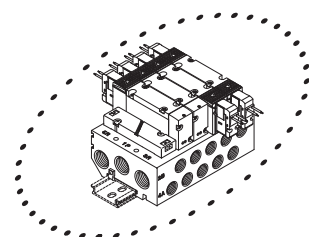


- Rc1/4 Female thread type (08)

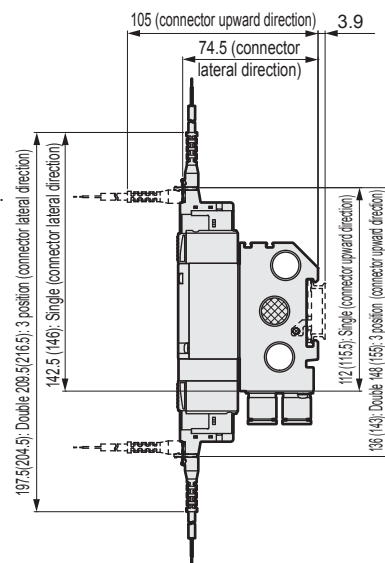
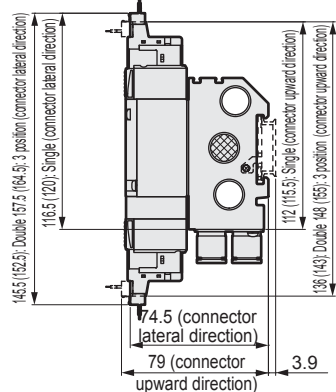
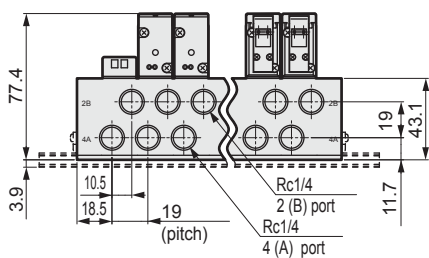
- E type connector type (E)

- EJ type connector type (E**J)

Note: Values in () apply for 100 VAC.



Note: Values in () apply for 100 VAC.



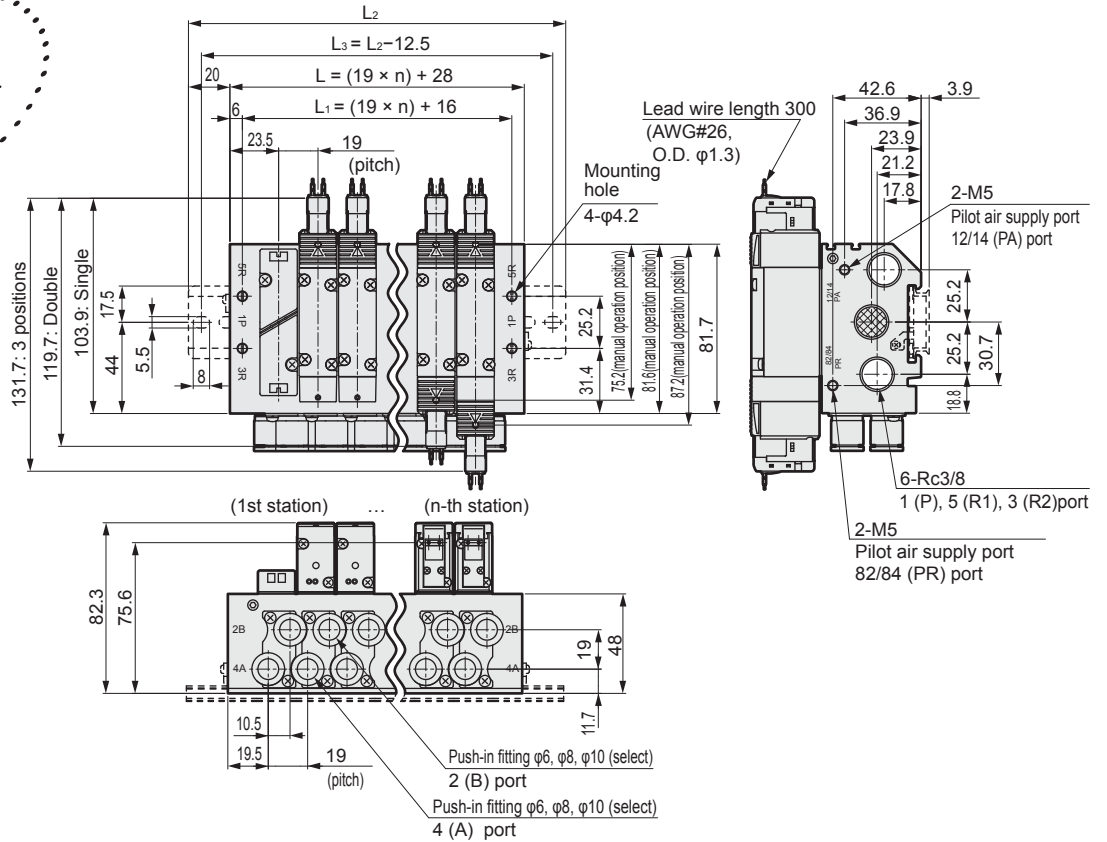
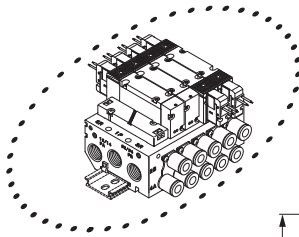
Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	83.0	102.0	121.0	140.0	159.0	178.0	197.0	216.0	235.0	254.0	273.0	292.0	311.0	330.0	349.0	368.0	387.0	406.0
L ₁	52.0	71.0	90.0	109.0	128.0	147.0	166.0	185.0	204.0	223.0	242.0	261.0	280.0	299.0	318.0	337.0	356.0	375.0	394.0
L ₂	112.5	125.0	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				
L ₃	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

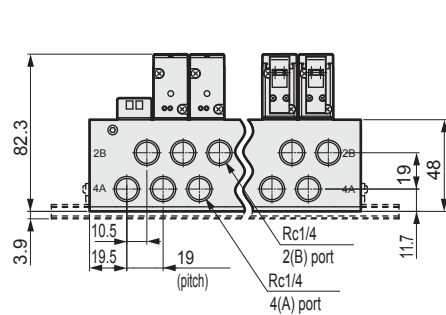
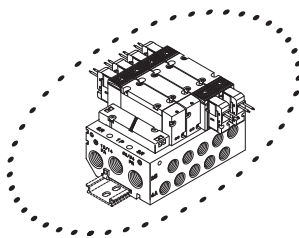


M4GB3

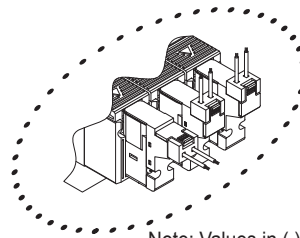
- External pilot (K)
Grommet lead wire (blank)



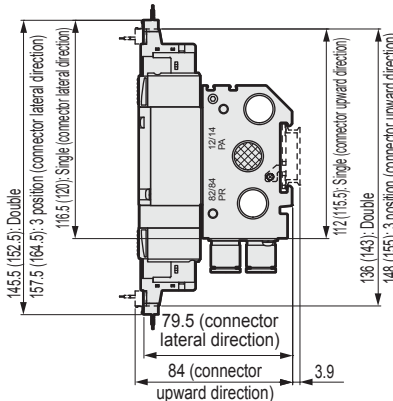
- External pilot (K)
Rc1/4 female thread type (08)



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

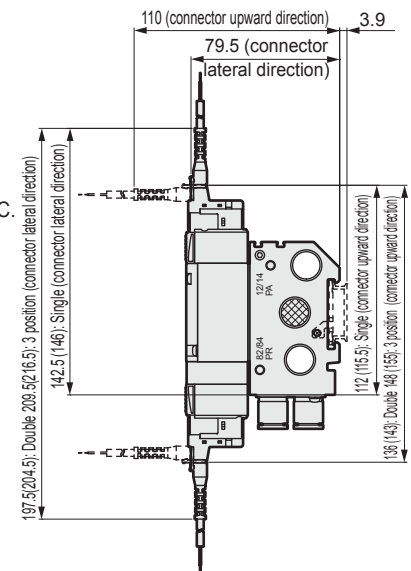


Note: Values in () apply for 100 VAC.



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

Note: Values in () apply for 100 VAC.



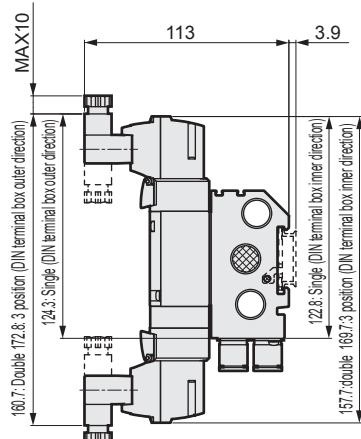
Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	66.0	85.0	104.0	123.0	142.0	161.0	180.0	199.0	218.0	237.0	256.0	275.0	294.0	313.0	332.0	351.0	370.0	389.0	408.0
L ₁	54.0	73.0	92.0	111.0	130.0	149.0	168.0	187.0	206.0	225.0	244.0	263.0	282.0	301.0	320.0	339.0	358.0	377.0	396.0
L ₂	112.5	125.0	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 ₃	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				

M4GB3 Series

Individual wiring manifold; base piping

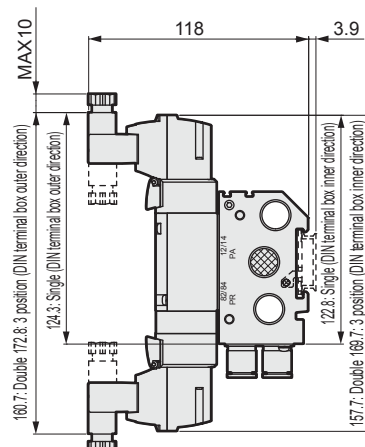
Dimensions

● DIN terminal box type (B)



● External pilot (K)

DIN terminal box type (B)



Note: The DIN terminal box assembly is shipped facing inward.

● Fitting straight

● φ6 (C6)



● φ8 (C8)



● φ10 (C10)



● Fitting straight, single plug

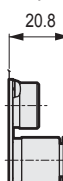
● φ6 (C6NC)



● φ8 (C8NC)



● φ10 (C10NC)



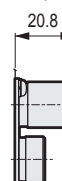
● φ6 (C6NO)



● φ8 (C8NO)

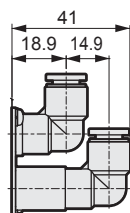


● φ10 (C10NO)

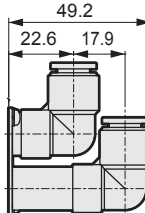


● Fitting L type (upward)

● φ8 (CL8)

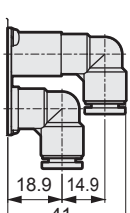


● φ10 (CL10)

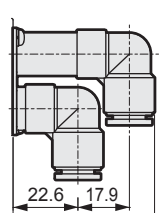


● Fitting L type (downward)

● φ8 (CD8)

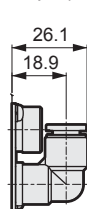


● φ10 (CD10)

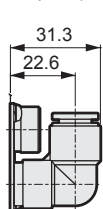


● Fitting L type (upward), single plug

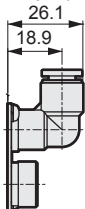
● φ8 (CL8NC)



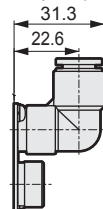
● φ10 (CL10NC)



● φ8 (CL8NO)

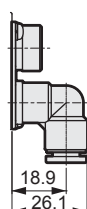


● φ10 (CL10NO)

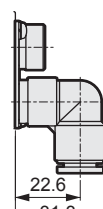


● Fitting L type (downward), single plug

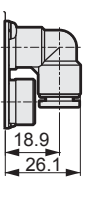
● φ8 (CD8NC)



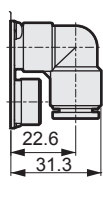
● φ10 (CD10NC)



● φ8 (CD8NO)



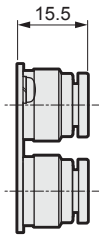
● φ10 (CD10NO)



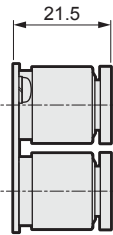
Dimensions

● Fitting straight

● $\phi 5/16$ inch (C8N)

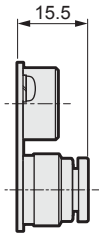


● $\phi 3/8$ inch (C10N)

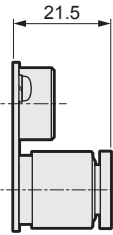


● Fitting straight, single plug

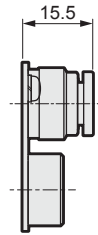
● $\phi 5/16$ inch (C8NCN)



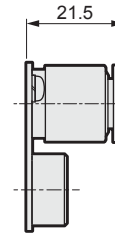
● $\phi 3/8$ inch (C10NCN)



● $\phi 5/16$ inch (C8NON)

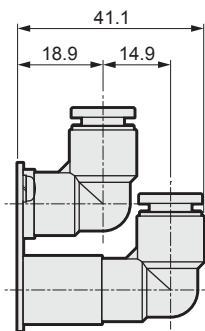


● $\phi 3/8$ inch (C10NON)

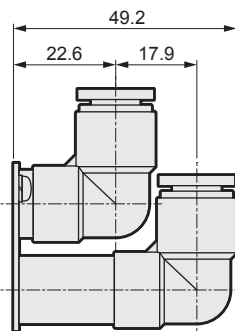


● Fitting L type (upward)

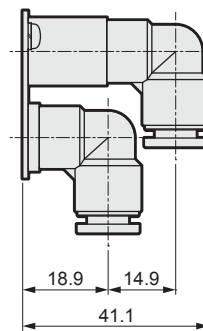
● $\phi 5/16$ inch (CL8N)



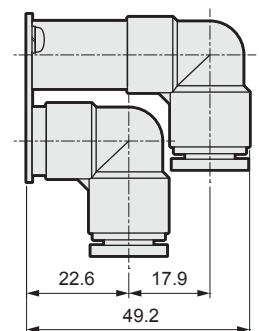
● $\phi 3/8$ inch (CL10N)



● $\phi 5/16$ inch (CD8N)

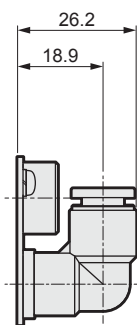


● $\phi 3/8$ inch (CD10N)

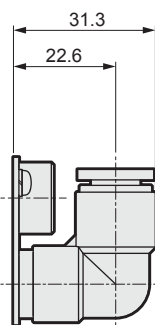


● Fitting L type (upward), single plug

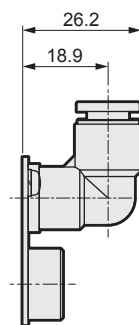
● $\phi 5/16$ inch (CL8NCN)



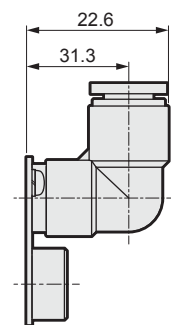
● $\phi 3/8$ inch (CL10NCN)



● $\phi 5/16$ inch (CL8NON)

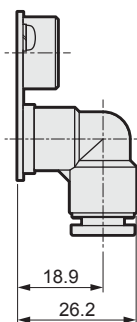


● $\phi 3/8$ inch (CL10NON)

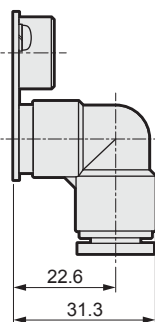


● Fitting L type (downward), single plug

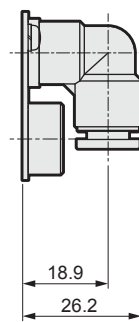
● $\phi 5/16$ inch (CD8NCN)



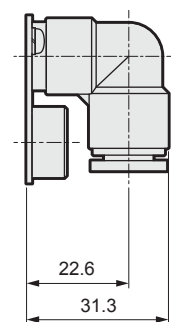
● $\phi 3/8$ inch (CD10NCN)

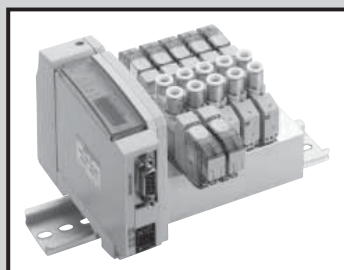


● $\phi 5/16$ inch (CD8NON)



● $\phi 3/8$ inch (CD10NON)





Reduced wiring manifold
Body porting
Direct mount type/DIN rail mount type

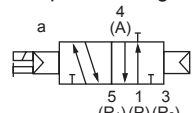
M3GA1, 2, 3-T* (D) Series M4GA1, 2, 3-T* (D) Series

● Applicable cylinder bore size: $\phi 20$ to $\phi 100$

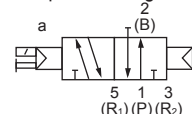


JIS symbol

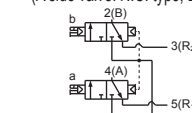
- 3 port valve
2-position single N.C. type



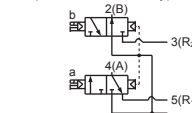
- 2-position single solenoid NO type



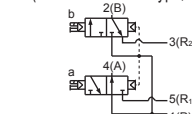
- Dual 3 port valve integrated type
(A side valve: N.C. type, B side valve: N.C. type)



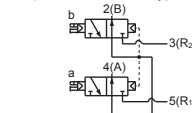
- (A side valve: N.C. type, B side valve: N.O. type)



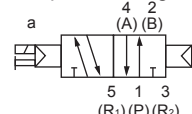
- (A side valve: N.O. type, B side valve: N.C. type)



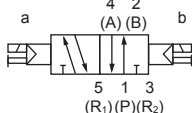
- (A side valve: N.O. type, B side valve: N.O. type)



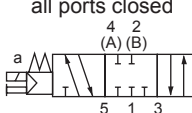
- 5 port valve
2-position single



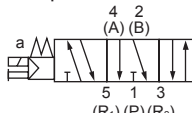
- 2-position double



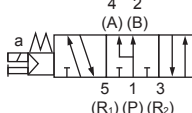
- 3 position
all ports closed



- 3-position A/B/R connection



- 3-position P/A/B connection



Manifold common specifications

Descriptions		Reduced wiring integrated base
Manifold type		Direct mount type/DIN rail mount type
Mounting method		Common supply/common exhaust (check valve integrated)
Supply and exhaust method		Main valve/pilot valve common exhaust (Pilot exhaust check valve integrated)
Pilot exhaust method	Internal pilot	Main valve/pilot valve individual exhaust
	External pilot	Main valve/pilot valve individual exhaust
Piping direction		Valve top direction
Valve type and operation method		Pilot-operated soft spool valve
Working fluid		Compressed air
Max. working pressure MPa		0.7
Min. working pressure MPa		0.2 (Note 3)
Proof pressure MPa		1.05
Ambient temperature °C		-5 to 55 (no freezing)
Fluid temperature °C		5 to 55
Manual override		Non-locking/locking common type (standard)
Lubrication (Note 1)		Not required
Degree of protection (Note 2)		Dust proof
Vibration resistance m/s ²		50 or less
Shock resistance m/s ²		300 or less
Atmosphere		Containing corrosive gas is impermissible.

Note 1 Use the turbine oil Class 1 ISO VG32 if lubricated. Excessive or intermittent lubrication results in unstable operation.

Note 2 Check that water drops or oil, etc., do not come into contact.

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

Electrical specification

Descriptions		T1*, T30*, T5*	T6*, T8*
Rated voltage		24 VDC	12 VDC
Voltage fluctuation range		±10%	+10%, -5%
Holding current A	Standard	0.017	0.034
	With low heat energy-saving circuit	0.005	0.010
Power consumption W	Standard	0.4	
	With low heat energy-saving circuit	0.1	
Thermal class		B	
Surge suppressor (Note 5)		Zener diode	
Indicator		LED	

Note 4 Please note the voltage fluctuation range since the T6* and T8* (Serial transmission type) have a voltage drop due to the internal circuit.

Note 5 If you select the low heat energy-saving circuit or surgeless, it will become a diode.

Common specifications

Descriptions		M3GA1/M4GA1	M3GA2/M4GA2	M3GA3/M4GA3
Port size	A/B port	Barbed fitting $\phi 1.8$ Push-in fitting $\phi 1.8, \phi 4, \phi 6$ M5	Push-in fitting $\phi 4, \phi 6, \phi 8$ Rc1/8	Push-in fitting $\phi 6, \phi 8, \phi 10$ Rc1/4
	P/R1/R2 port	Rc1/8	Rc1/4	Rc3/8

T1*, T30*, T5*

Descriptions		M3GA1/M4GA1		M3GA2/M4GA2		M3GA3/M4GA3	
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.) g	Standard	29n+215	31n+228	54n+264	56n+297	84n+320	86n+354
	External pilot	44n+334	46n+347	96n+433	96n+468	149n+554	151n+583

T6*

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

T8*

Descriptions		M3GA1/M4GA1		M3GA2/M4GA2		M3GA3/M4GA3	
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.) g	Standard	50n+305	52n+332	57n+259	60n+290	150n+384	153n+416
	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 the DIN rail and electrical block.

The max. station no. of the manifold is limited by the max. number of solenoid for each of the following wiring specifications.

M₄GA1, 2, 3-T* (D) Series

Reduced wiring manifold; base piping

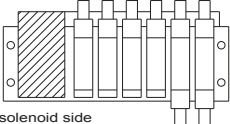
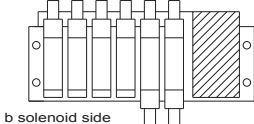
Flow characteristics

Model no.	Valve Position	P→A/B		A/B→R1/R2	
		C [dm ³ /(s/bar)]	b	C [dm ³ /(s/bar)]	b
M3GA1 M4GA1	Dual 3 port valve integrated type	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	1.1 -	0.20 -
		ABR connection	0.93	1.3 (0.70)	0.23 (0.02)
	PAB connection	1.1	0.28	1.1 -	0.23 -
M3GA2 M4GA2	Dual 3 port valve integrated type	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	2.5 -	0.32 -
		ABR connection	2.2	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	3.3 -	0.35 -
		ABR connection	3.0	3.8 (2.6)	0.12 (0.27)
	PAB connection	3.3	0.30	3.3 -	0.32 -

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

Note 2: Values in () apply when a check valve is attached.

Wiring specifications

Descriptions	T10* Common terminal block type	T11* Common terminal block type	T30* D sub-connector	T50* Flat cable 20 pin type	T51* Flat cable 20 pin type	T52* Flat cable 10 pin type	T53* Flat cable 26 pin type
Connector and Terminal block specifications	M3 thread tightening type18 terminals	Push tightening type 26 terminals	D sub connector 25 pin	MIL-C-83503 standards conformedPressure welding socket 20 pin	MIL-C-83503 standards conformedPressure welding socket 20 pin	MIL-C-83503 standards conformedPressure welding socket 10 pin	MIL-C-83503 standards conformedPressure welding socket 26 pin
Maximum solenoid number	16 points	24 points	24 points	16 points	18 points	8 points	24 points
Manifold internal wiring	Details on page 594 to 601						
Electrical block position Blank: Left side R : Right side	Left side: T* Right side: T*R a solenoid side  b solenoid side a solenoid side  b solenoid side Electrical block 1st station 2nd station 3rd station ... 8th station 1st station 2nd station 3rd station ... 8th station Electrical block						
	Arrangement type Blank: standard sequential W: Double wiring	(Example) T50 * Manifold specifications 1a 2a 3a 4a S D S D 2b 4b 1st station 3rd station 2nd station 4th station Standard wiring (sequential): Blank Connector pin no. 1 2 3 4 5 6 Valve solenoid no. 1a 2a 2b 3a 4a 4b Double wiring: W Connector pin no. 1 2 3 4 5 6 7 8 Valve solenoid no. 1a Void 2a 2b 3a Void 4a 4b					

Serial transmission slave unit specifications

Descriptions	T6G1 ^{Note 1}	T6C0 ^{Note 2} T6C1	T6A0 ^{Note 3} T6A1	T6E0 T6E1	T6J0 ^{Note 3} T6J1
Network name	CC-Link	CompoBus/S	UNIWIRED SYSTEM	S-LINK	UNIWIRED SYSTEM
Power 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: 15mA 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			
Occupation number	1 station	T6C0: 1 node address (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
Operating indication	LED (power supply and communication state)				

Note 1: CC-Link is ver1.10.

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

Note 3: The number of transmission points of 128 points and the 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
Network name		CC-Link ver1.10		PROFIBUS-DP(V0)		EtherCAT		EtherNet/IP	
Power voltage	Unit side	24 VDC ± 10%							
	Valve side	24 VDC + 10%, -5%							
Current consumption	Unit 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)	
	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 state)							
Output type		NPN output	PNP output	NPN output	PNP output	NPN output	PNP output	NPN output	PNP output

M³GA1, 2, 3-T* (D) Series

Reduced wiring manifold; base 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**

● Discrete 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 Valve Position

A Model no.

"A2N" indicates A type (downward) connector, with surge suppressor/light and no lead wire.

C Port size

- Refer to page 597 for cable model no. with D-sub connector.
- Refer to page 593 for cable model no. for flat cable connector.

⚠ Note on model no. selection

Note 1 Select M4GA*80R when mixing with 3, 5 port valves.
Select M3GA*80R when mixing with the masking plate.

Note 2 Combination with the external pilot (K) is not available.
Dimensions are the same as the respective 2-position double.

Note 3 The push-in fitting cannot be mixed with the discrete valve's 4 (A) or 2 (B) port.

Note 4 Blank.....Wired based on the type of valve used.
W*.....Wired for the double solenoid regardless of the type of valve used.

Note 5 Reduced wiring (A type socket assembly) is attached to the cap side.
The discrete valve (A2N) comes with a holder for holding the socket assembly.

Note 6 3-position all ports closed and PAB connection are not provided with check valve (H). Refer to Page 628 for details on the check valve.

Note 7 Consult with CKD when using a vacuum with the external pilot (K).
In addition, the surgeless "S" and low heat energy-saving circuit "E" cannot be selected at the same time.

Note 9 This is surgeless specifications.
Note 10 The P port has a filter built inside as a standard.

Note 11 Specify the spacer mounting position and quantity in manifold specifications.
Stacking multiple spacers is not supported.
Combination with the masking plate is not supported.
Refer to page 180 to 184 for details.

Note 12 Combination with the external pilot (K) is not available.

D Reduced wiring

Zener diode is used for a surge suppressor.

E Terminal/connector pin Arrangement type

F Option

G Mount Type

H Station no.

I Voltage

* Always indicate "Manifold specifications" (page200to214).

		A Model No.				
		3GA1	3GA2	3GA3	4GA1	4GA2
Symbol	Descriptions					
B Valve Position						
1	2-position single				●	●
2	2-position double				●	●
3	3-position all ports closed				●	●
4	3-position ABR connection				●	●
5	3-position PAB connection				●	●
1	2-position single normally closed	●	●	●		
11	2-position single normally open	●	●	●		
66	Dual 3 port valve integrated type	A side valve: Normally closed				
		B side valve: Normally closed				
67		A side valve: Normally closed				
		B side valve: Normally open				
76	Note 1, 2	A side valve: Normally open				
		B side valve: Normally closed				
77		A side valve: Normally open				
		B side valve: Normally open				
8	Mix manifold (In case of multiple Valve Positions)	●	●	●	●	●
C Port size						
Port	4(A) /2(B) port	P/R1/R2 port (2) = Rc1/8 (3) = Rc1/4 (4) = Rc3/8				
CF	φ1.8 barbed fitting (applicable tube UP-9102-**)	②		②		
C18	φ1.8 push-in fitting (applicable tube UP-9402-**)	②		②		
C4	φ4 push-in fitting	②	③	②	③	
C6	φ6 push-in fitting	②	③	④	②	③
C8	φ8 push-in fitting		③	④	③	④
C10	φ10 push-in fitting			④		④
CX	Push-in fitting mix	②	③	④	②	③
M5	M5	①			①	
06	Rc1/8		②			②
08	Rc1/4			③		④
D Reduced wiring connection (light and surge suppressor provided as standard)						
Refer to the next page for wire connections.						
E Terminal and connector pin array						
Blank	Standard wiring	Note 4	●	●	●	●
W	Double wiring	Note 4	●	●	●	●
W1	Double wiring (With single reduced wiring)	Note 4, Note 5	●	●	●	●
F Option						
Blank	Non-locking/locking common manual override		●	●	●	●
M	Non-locking manual override		●	●	●	●
H	With check valve	Note 6	●	●	●	●
K	External pilot	Note 7	●	●	●	●
A	Ozone/cutting oil proof		●	●	●	●
S	Surgeless	Note 8	●	●	●	●
E	Low heat and energy saving circuit	Note 8, Note 9	●	●	●	●
F	A/B port filter integrated	Note 10	●	●	●	●
Z1	Air supply spacer	Note 11	●	●	●	●
Z2	In stop valve spacer	Note 11, Note 12	●	●	●	●
Z3	Exhaust spacer	Note 11	●	●	●	●
G Mount type						
Blank	Direct mount type		●	●	●	●
D	DIN rail mount type		●	●	●	●
H Station no.						
2	2 stations		●	●	●	●
to	to		●	●	●	●
20	Refer to page 130 for the max. station no. for each model.		●	●	●	●
I Voltage						
3	24 VDC		●	●	●	●
4	12 VDC		●	●	●	●

is not available.

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

Ozone specifications / Coolant proof specifications

Select the option "A" of (F) in how to order on page 132

Clean room specifications (Catalog No. CB-033SA)

- Dust generation preventing structure for use in clean rooms

** - Voltage - P7*

Specification for secondary battery production (Catalog No. CC-947A)

- In order to be applicable for secondary battery manufacturing process, confine materials for air passage and sliding section

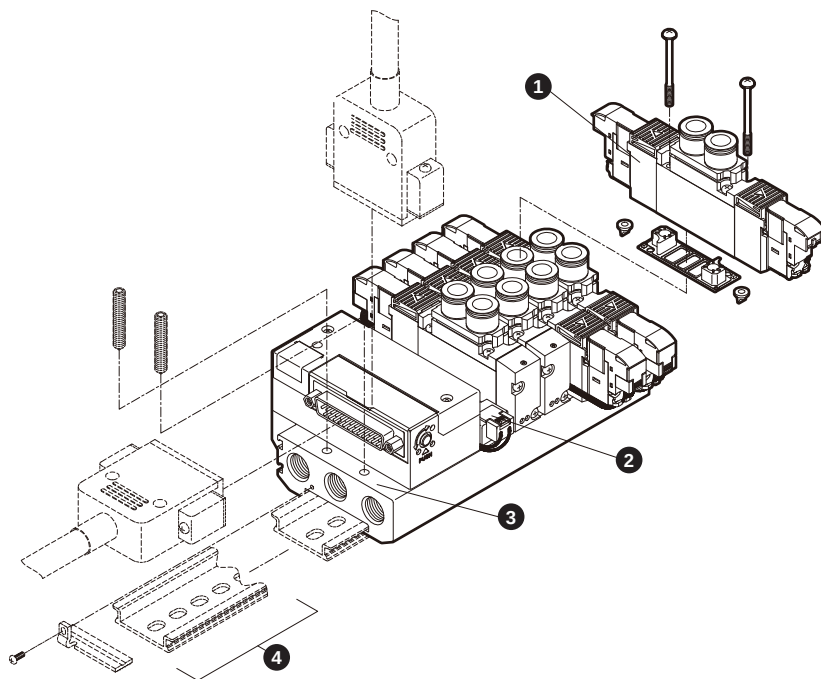
** - Voltage - P4

M4GA1, 2, 3-T* (D) Series

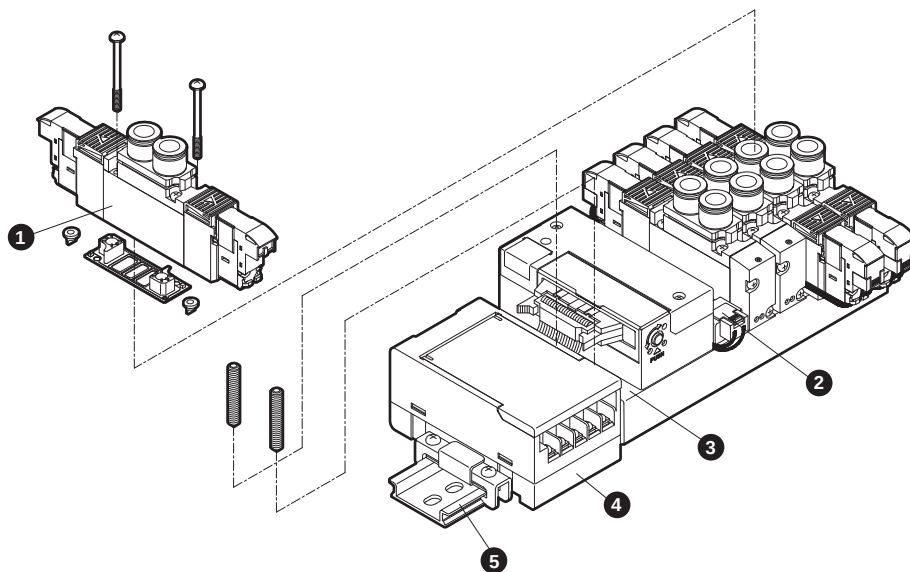
Reduced wiring manifold; base piping

Manifold components explanation and parts list

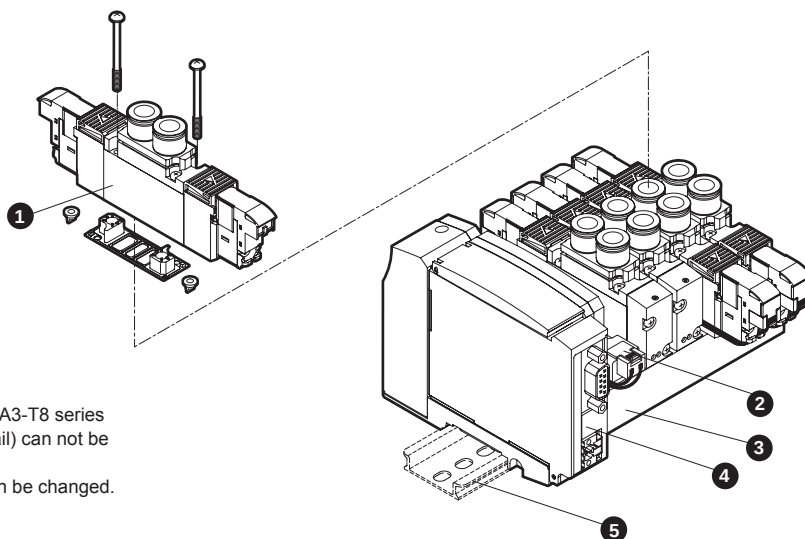
● T30



● T6D



● T8*



* The M4GA2-T8 and M4GA3-T8 series mount type (direct, DIN rail) can not be changed after purchase.
The M4GB1-T8 series can be changed.

M³GA1, 2, 3-T* (D) Series

Reduced wiring manifold; body piping; serial transmission

Main components list

No.	Component name	Model no.	Descriptions	Remarks
1	Discrete valve for mounting base	4GA ** 9R - Port size - A2N Option - Voltage Valve Position Series flow rate size	Discrete valve Gasket Set screw 2 PR check valve 2	Details on page 132
2	Masking plate	3G1 & 4G1 4G1R-MP 3G2 & 4G2 4G2R-MP 3G3 & 4G3 4G3R-MP	Masking plate Gasket Set screw 2	*3G3 & 4G3 has two PR check valves.
3	Manifold base assembly	M4GA * R-00 - T56 - Option - Station no. Series flow rate size	Manifold base Wiring block	
4	Serial transmission slave unit	4GR-OPP3 - Wiring method 4GR-OPP7 - Wiring method	Serial transmission slave unit	Details on page 150
5	DIN rail kit			Details on page 191

Parts list

No.	Parts name	Model no.	No.	Parts name	Model no.
-	Coil assembly	4GR-A2N- * - COIL - Voltage Blank: standard A: Ozone/cutting oil proof	-	Cartridge type Push-in fitting and related parts	4G1 φ1.8 barbed type 4G1R-JOINT-CF φ8 straight type 4G1R-JOINT-C18 φ4 straight type 4G1R-JOINT-C4 φ6 straight type 4G1R-JOINT-C6 Plug cartridge 4G1R-JOINT-CPG 4G2 φ4 straight type 4G2R-JOINT-C4 φ6 straight type 4G2R-JOINT-C6 φ8 straight 4G2R-JOINT-C8 Plug cartridge 4G2R-JOINT-CPG 4G3 φ6 straight type 4G3R-JOINT-C6 φ8 straight 4G3R-JOINT-C8 φ10 straight type 4G3R-JOINT-C10 Plug cartridge 4G3R-JOINT-CPG
-	A type connector socket assembly Details on page Page 613	Series flow rate size 4G * R- SOCKET-ASSY-A ** - Row no. Blank: Left side, R: Right side A: aSOL side, B: bSOLside n: Specify the position of the valve to be connected			

M4GA1-T* Series

Reduced wiring manifold; base piping

Dimensions

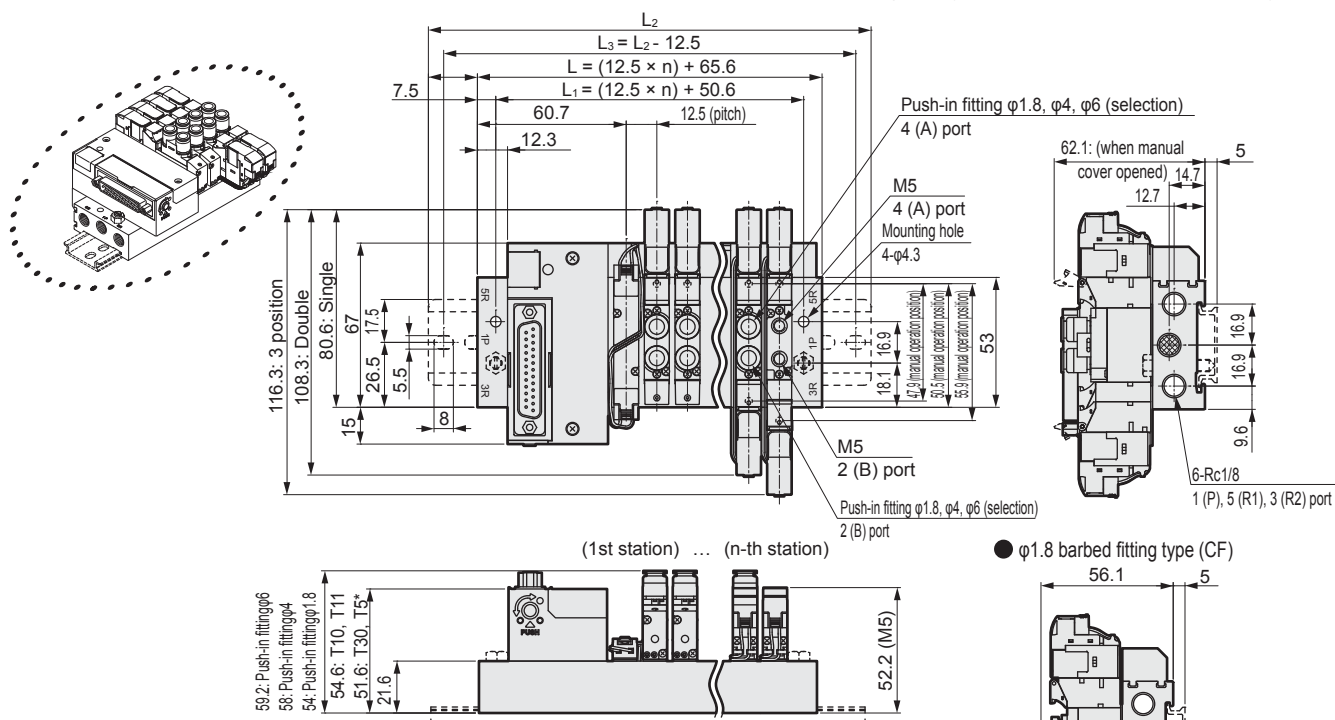


M4GA1

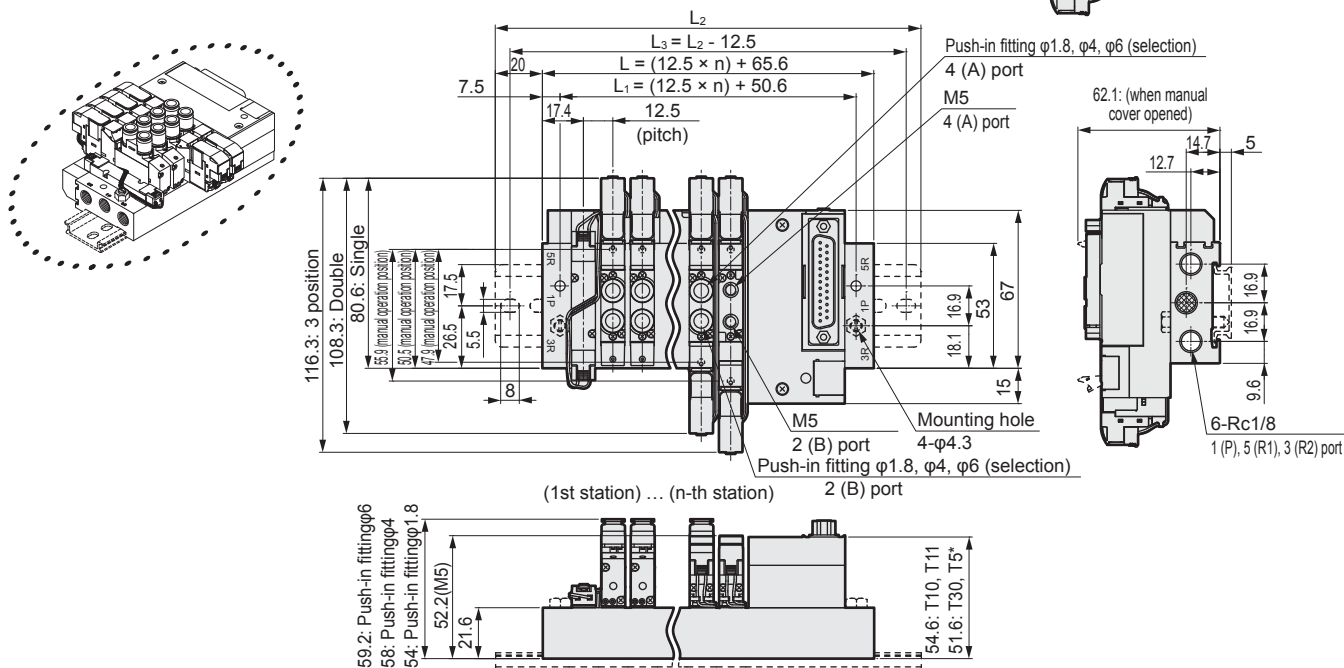
- Reduced wiring left side type (T10/T11/T30/T50/T51/T52/T53)

*This drawing shows T30. Refer to page 148 to 149 for detailed dimensions of the electrical block.

*For 2-position single 3 port valve, the port A or port B is a plug. The dimension of dual 3 port valve integrated type is the same as that of the double type.



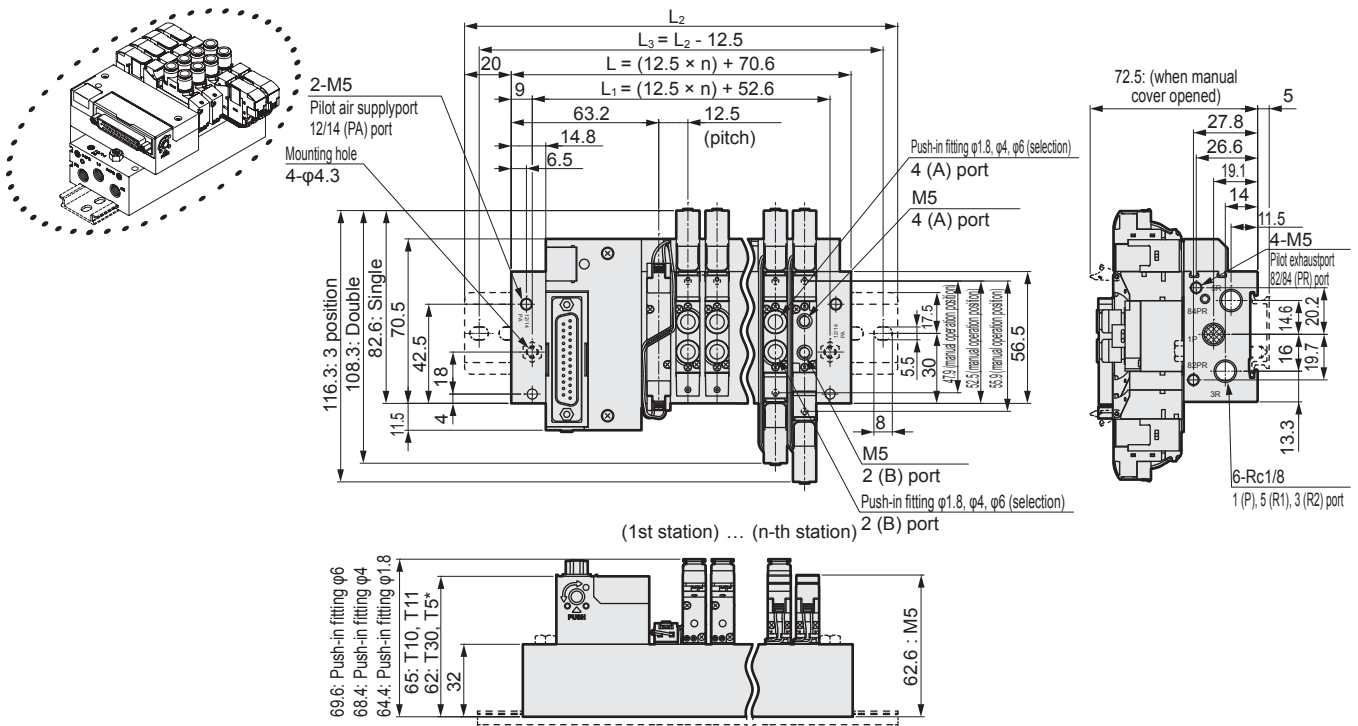
- Reduced wiring right side type (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



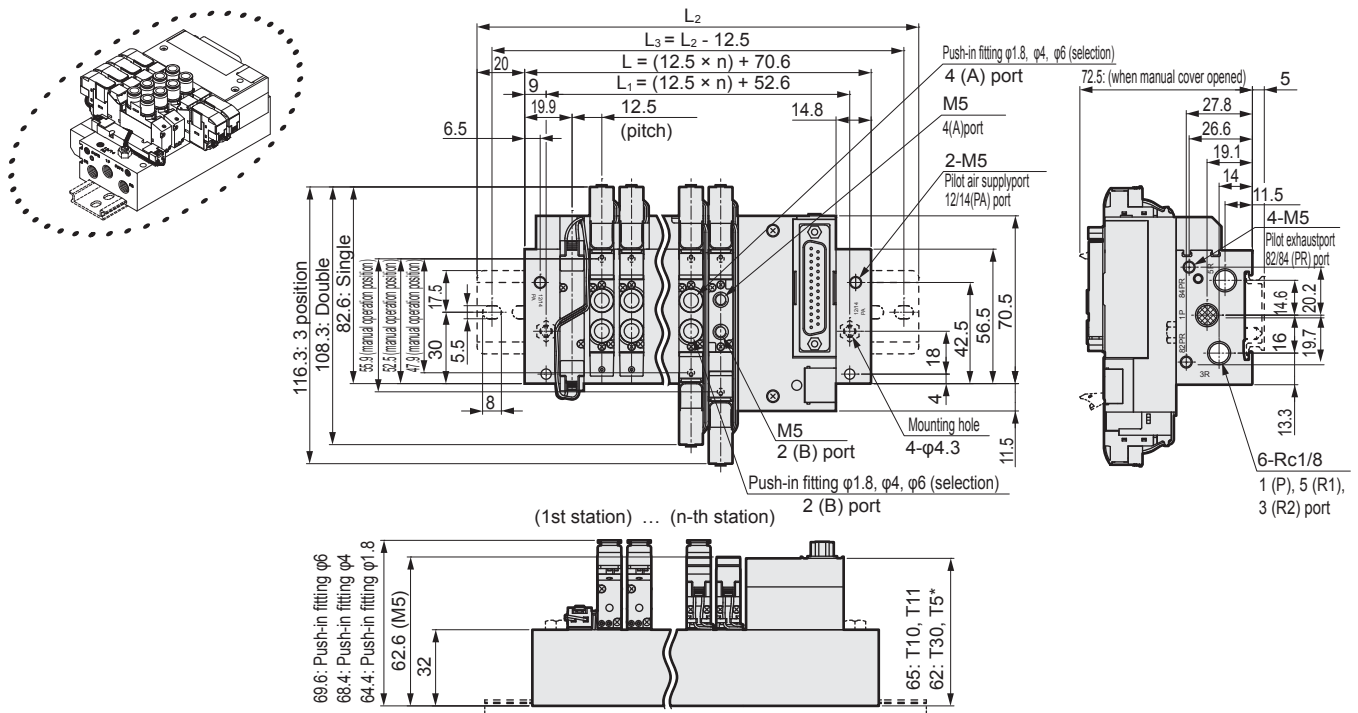
Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	90.6	103.1	115.6	128.1	140.6	153.1	165.6	178.1	190.6	203.1	215.6	228.1	240.6	253.1	265.6	278.1	290.6	303.1	315.6
L ₁	75.6	88.1	100.6	113.1	125.6	138.1	150.6	163.1	175.6	188.1	200.6	213.1	225.6	238.1	250.6	263.1	275.6	288.1	300.6
L ₂	137.5	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 ₃	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 type (T10/T11/T30/T50/T51/T52/T53)
External pilot (K)

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



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



Station 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 ₁	77.6	90.1	102.6	115.1	127.6	140.1	152.6	165.1	177.6	190.1	202.6
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

M4GA1-T6D Series

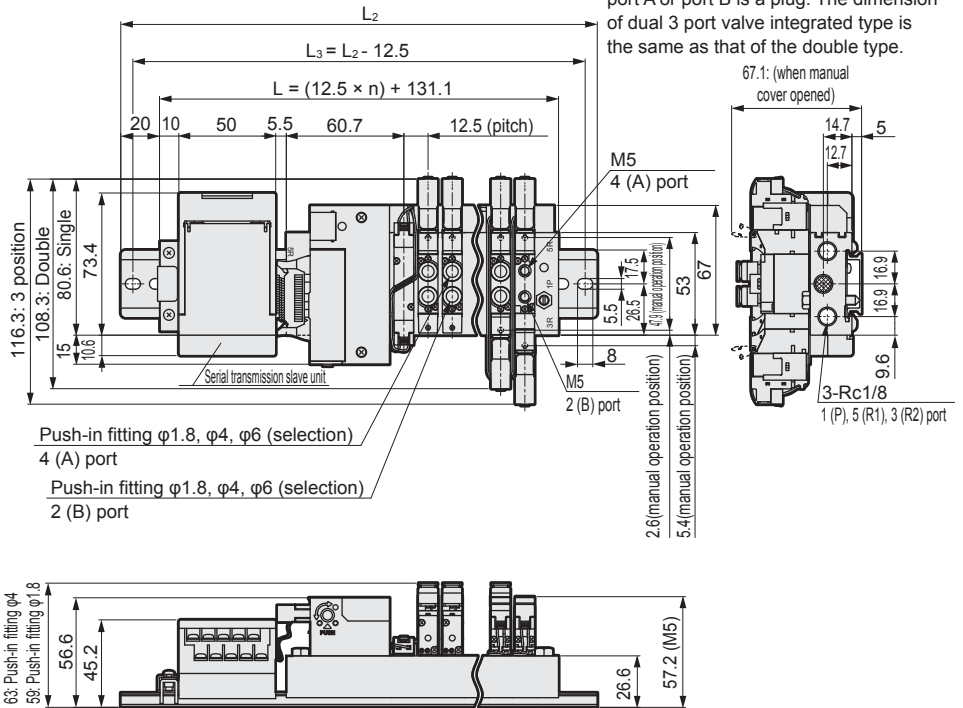
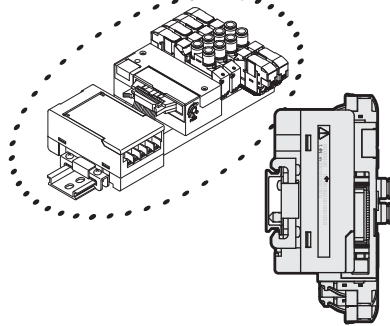
Reduced wiring manifold; base piping

Dimensions



M4GA1

- Serial transmission (T6*)
DIN rail mounting type (D)

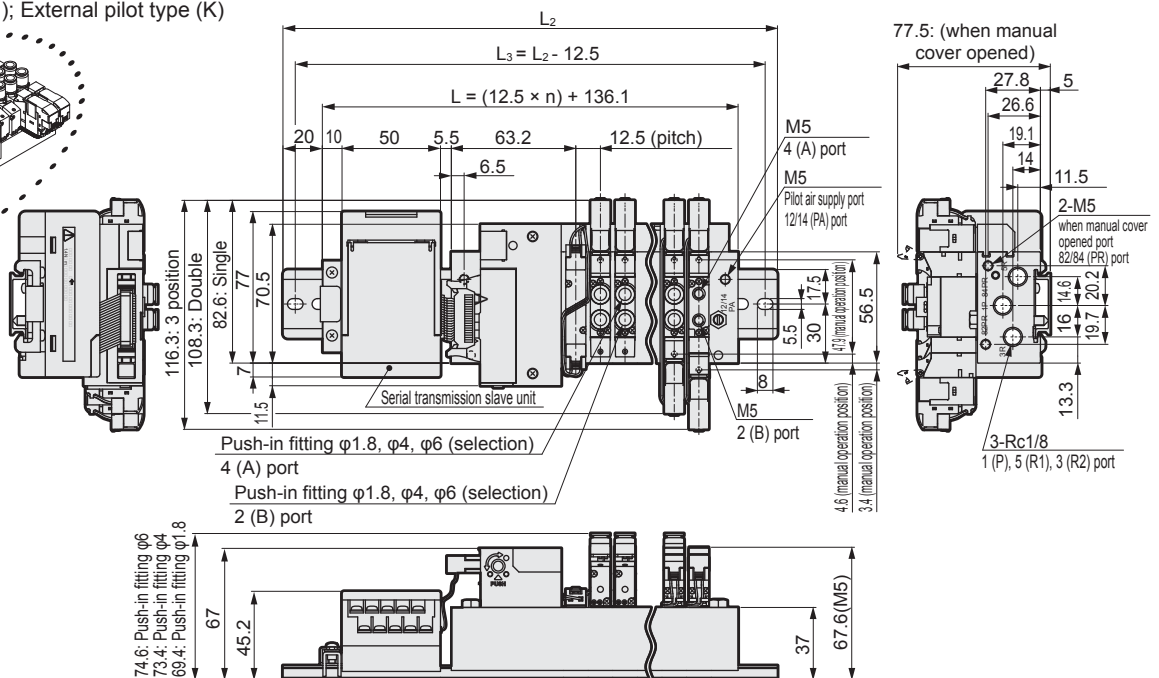
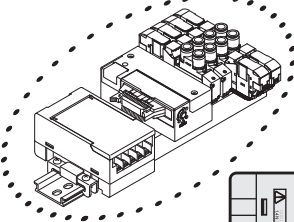


*For 2-position single 3 port valve, the port A or port B is a plug. The dimension of dual 3 port valve integrated type is the same as that of the double type.

Station 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_2	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_3	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 type (K)

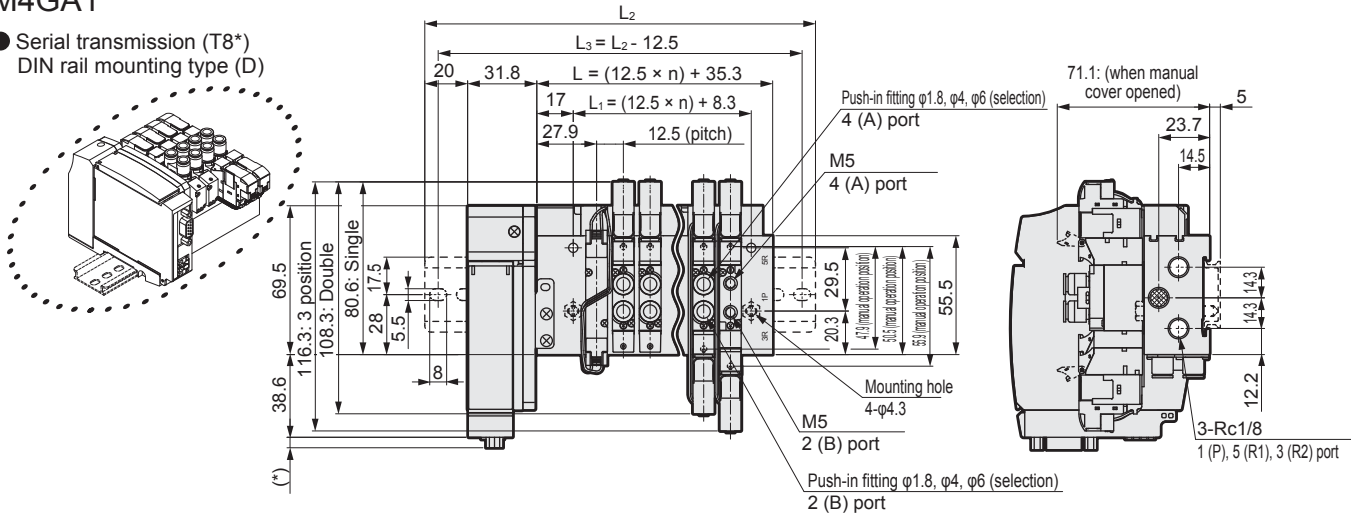


Station no.	2	3	4	5	6	7	8	9	10	11	12
L	161.1	173.6	186.1	198.6	211.1	223.6	236.1	248.6	261.1	273.6	286.1
L_2	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5
L_3	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0

Dimensions

M4GA1

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

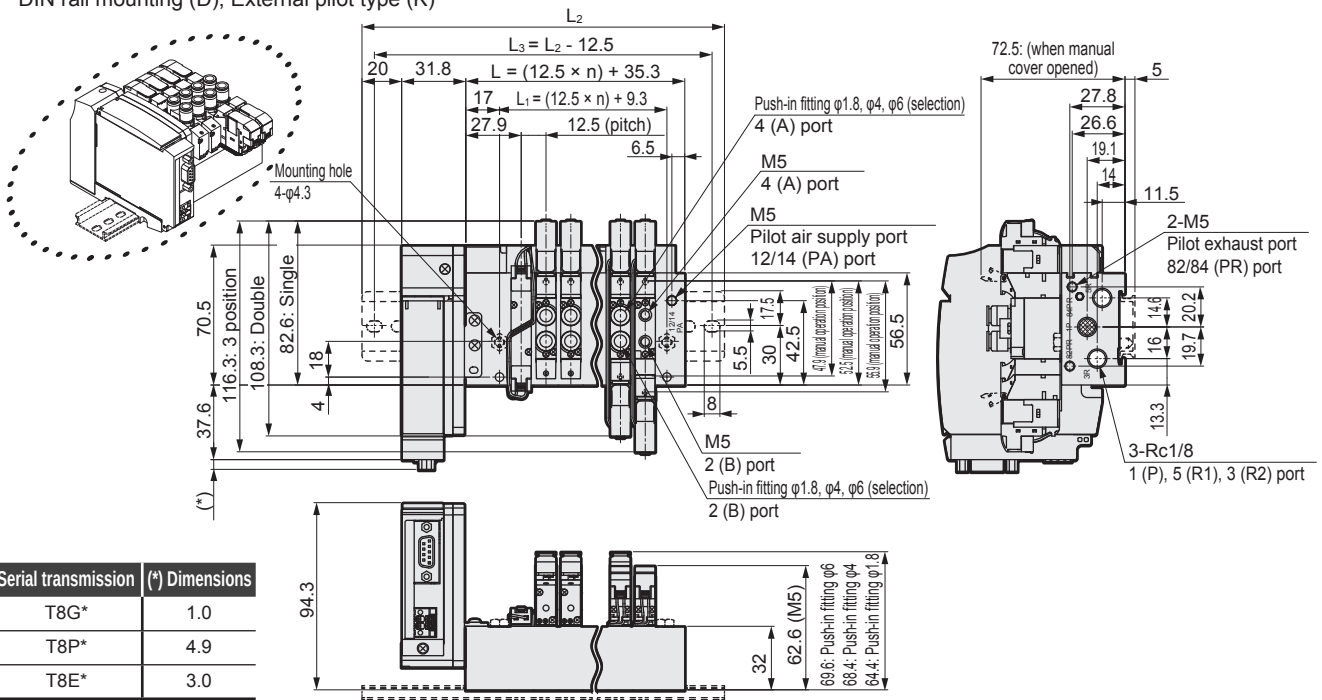


Serial transmission	(*) Dimensions
T8G*	1.0
T8P*	4.9
T8E*	3.0

Station 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 ₁	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 ₂	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 ₃	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 type (K)



Serial transmission	(*) Dimensions
T8G*	1.0
T8P*	4.9
T8E*	3.0

Station 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 ₁	34.3	46.8	59.3	71.8	84.3	96.8	109.3	121.8	134.3	146.8	159.3
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

M4GA2-T* Series

Reduced wiring manifold; base piping

Dimensions

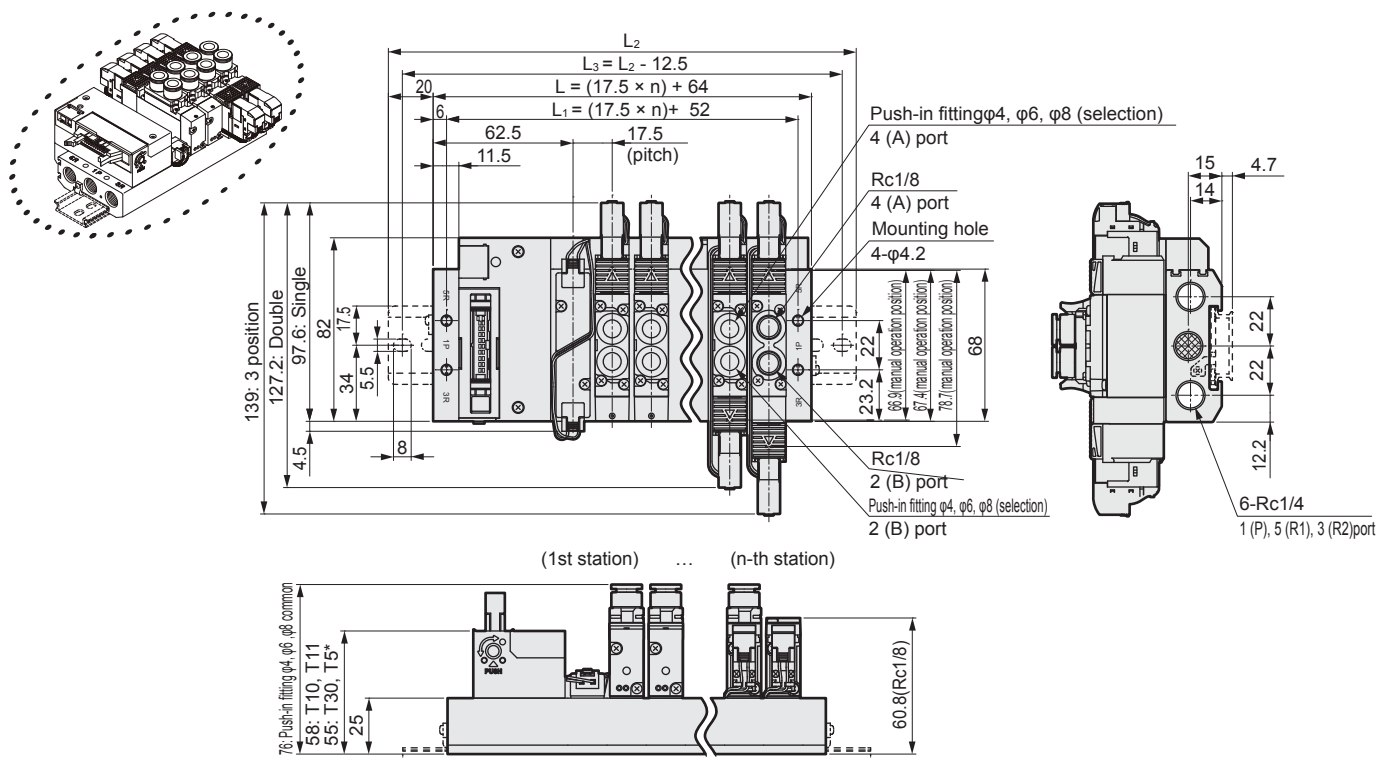


M4GA2

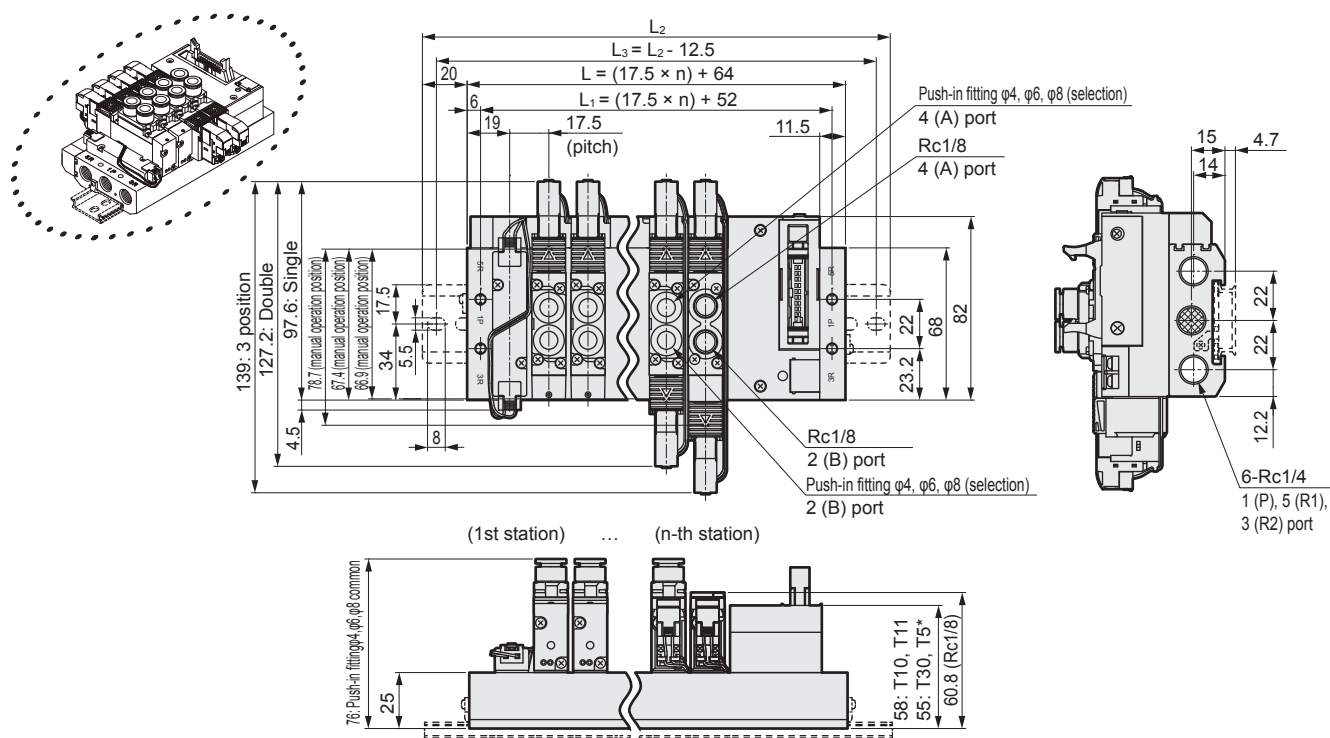
● Reduced wiring left side type (T10/T11/T30/T50/T51/T52/T53)

*This drawing shows T50. Refer to page 148 to 149 for detailed dimensions of the electrical block.

*For 2-position single 3 port valve, the port A or port B is a plug. The dimension of dual 3 port valve integrated type is the same as that of the double type.



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



Station 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 ₁	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 ₂	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 ₃	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				

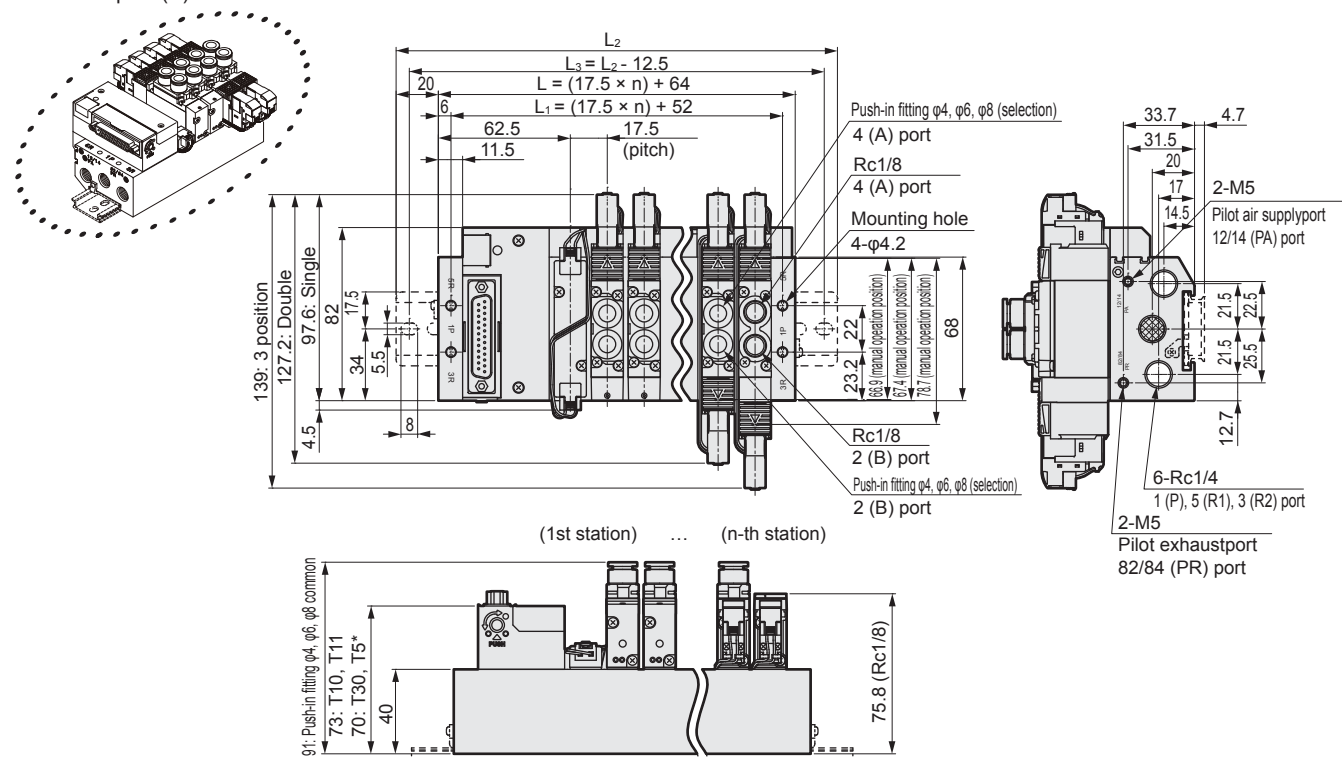
Dimensions



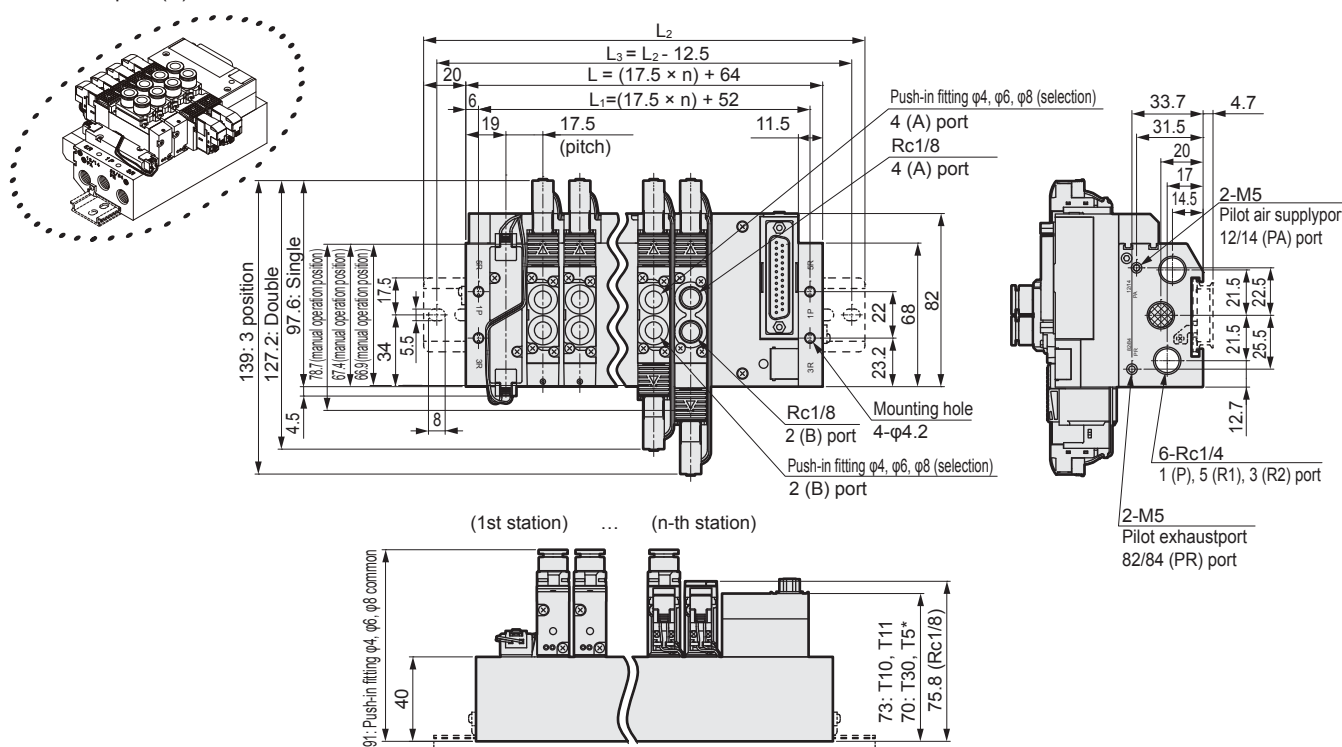
M4GA2

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

*This drawing shows T30. Refer to page 148 to 149 for detailed dimensions of the electrical block.
*For 2-position single 3 port valve, the port A or port B is a plug.



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



Station 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 ₁	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 ₂	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 ₃	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				

M4GA2-T6D Series

Reduced wiring manifold; body piping; serial transmission

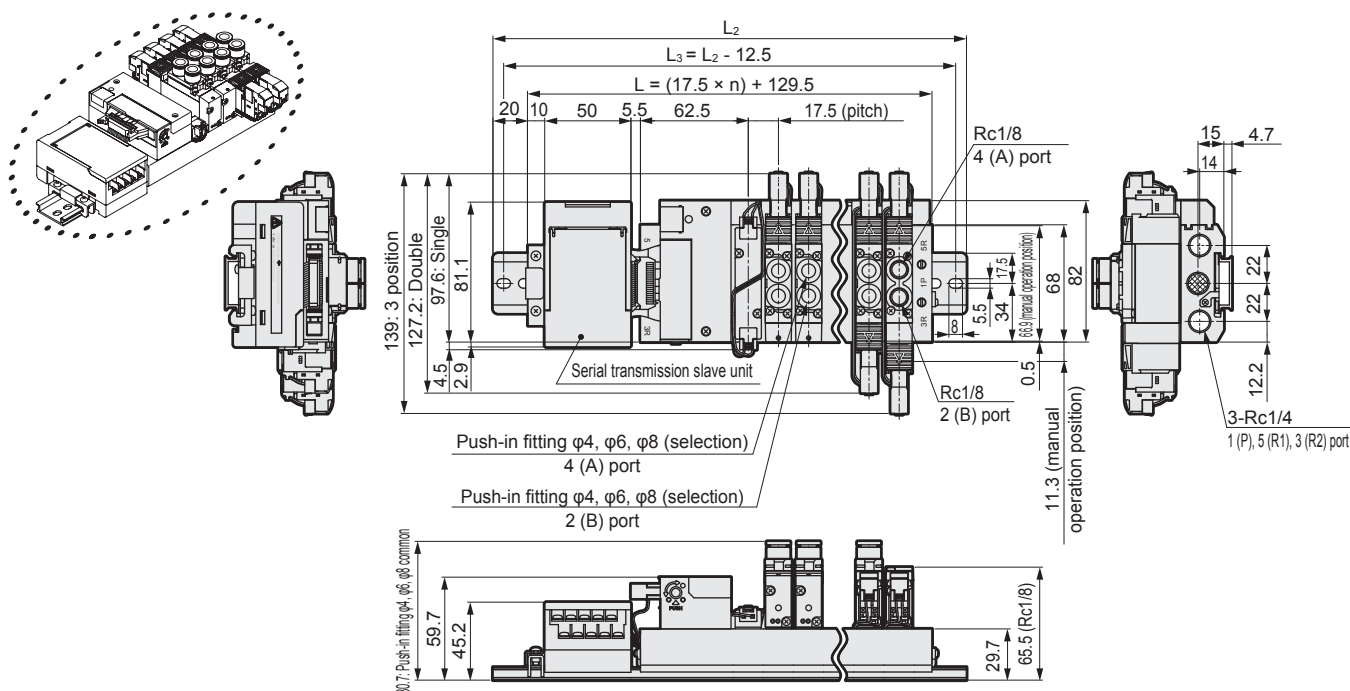
Dimensions



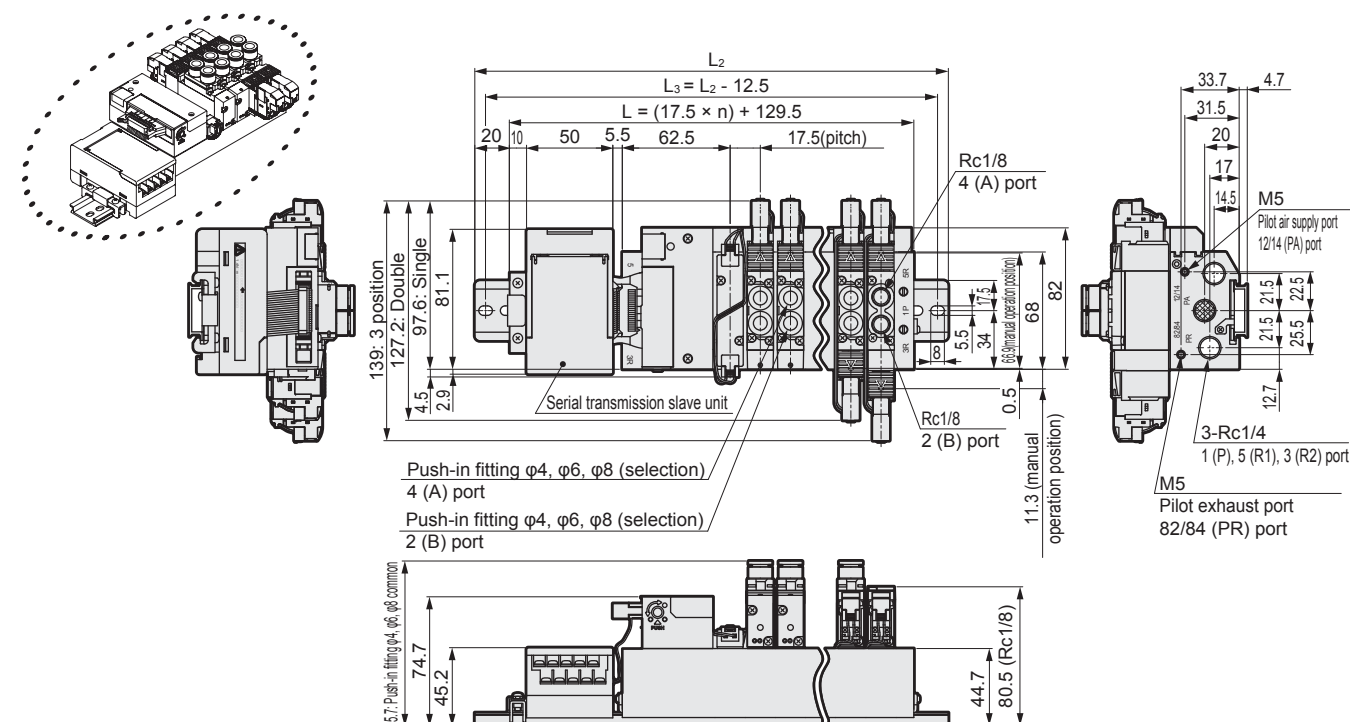
M4GA2

- Serial transmission (T6*)
DIN rail mounting type (D)

*For 2-position single 3 port valve, the port A or port B is a plug. The dimension of dual 3 port valve integrated type is the same as that of the double type.



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

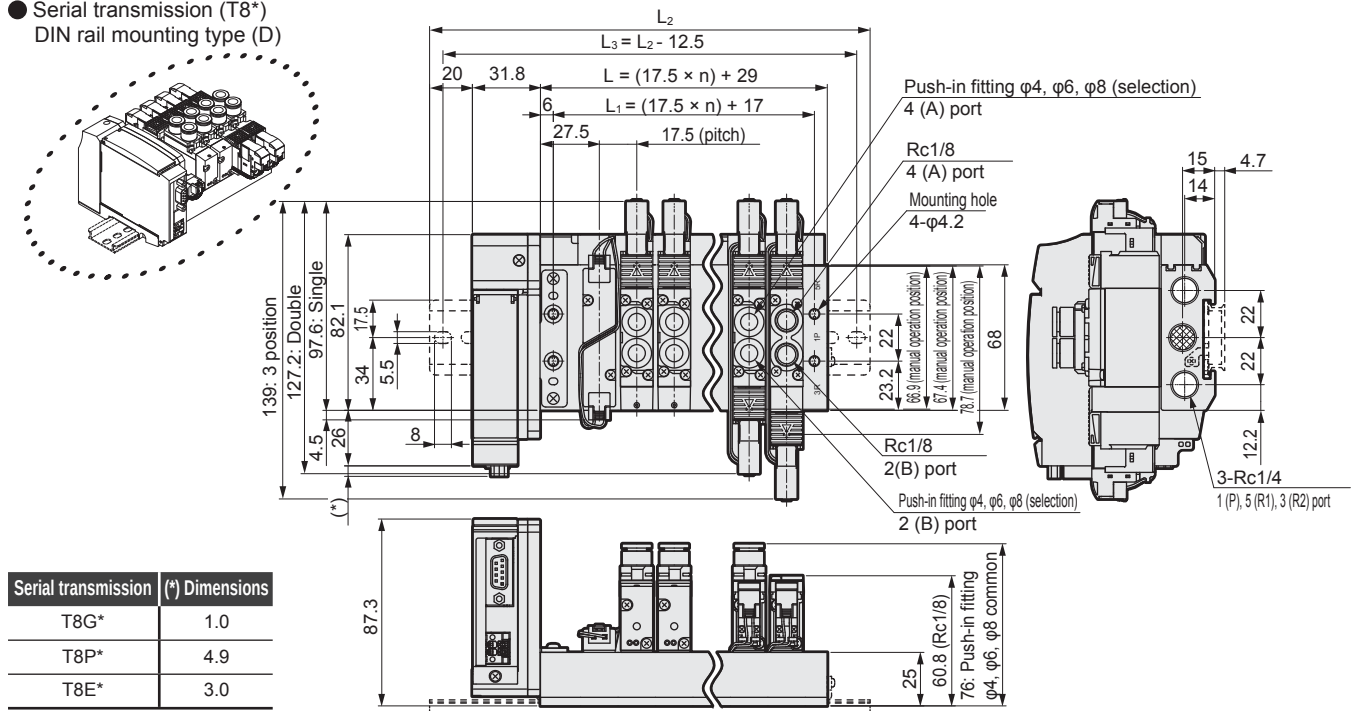


Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	164.5	182.0	199.5	217.0	234.5	252.0	269.5	287.0	304.5	322.0	339.5	357.0	374.5	392.0	409.5
L ₂	212.5	225.0	250.0	262.5	275.0	300.0	312.5	337.5	350.0	362.5	387.5	400.0	425.0	437.5	450.0
L ₃	200.0	212.5	237.5	250.0	262.5	287.5	300.0	325.0	337.5	350.0	375.0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

Dimensions

M4GA2

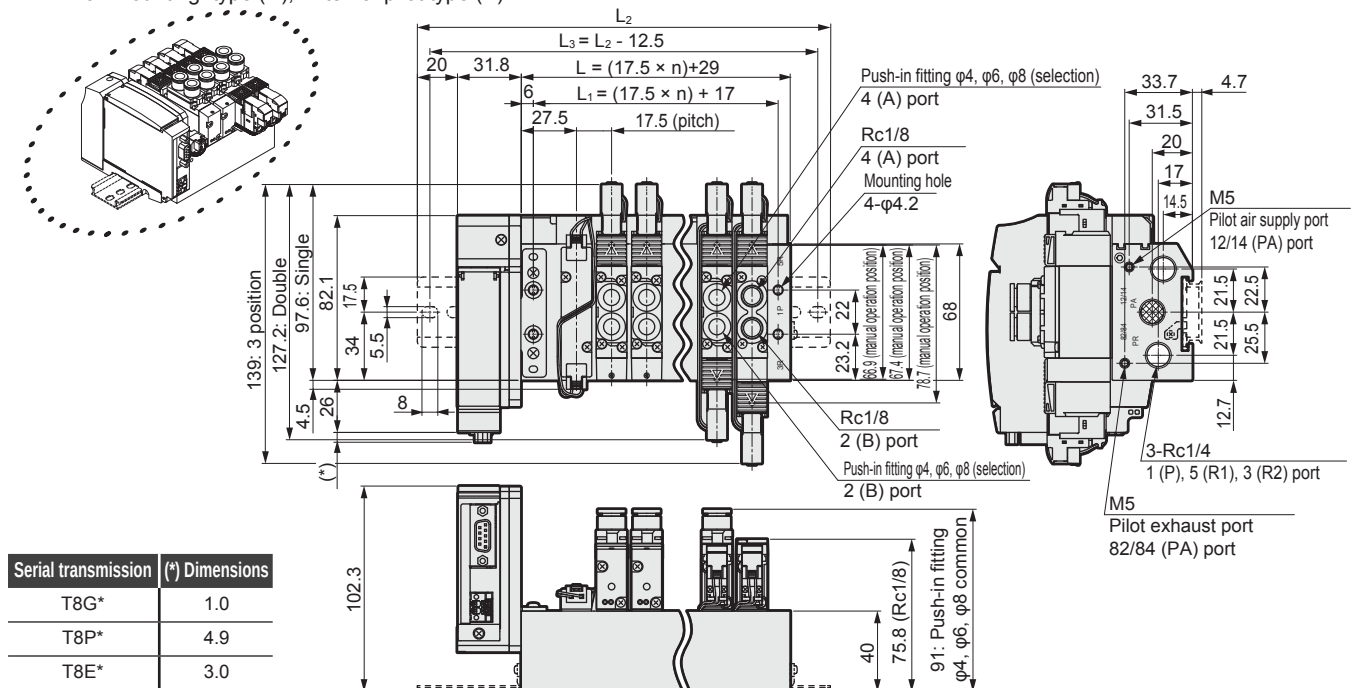
- Serial transmission (T8*)
- DIN rail mounting type (D)



Station 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 ₁	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 ₂	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 ₃	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 type (D); External pilot type (K)



Station 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 ₁	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 ₂	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 ₃	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				

M4GA3-T* Series

Reduced wiring manifold; base piping

Dimensions

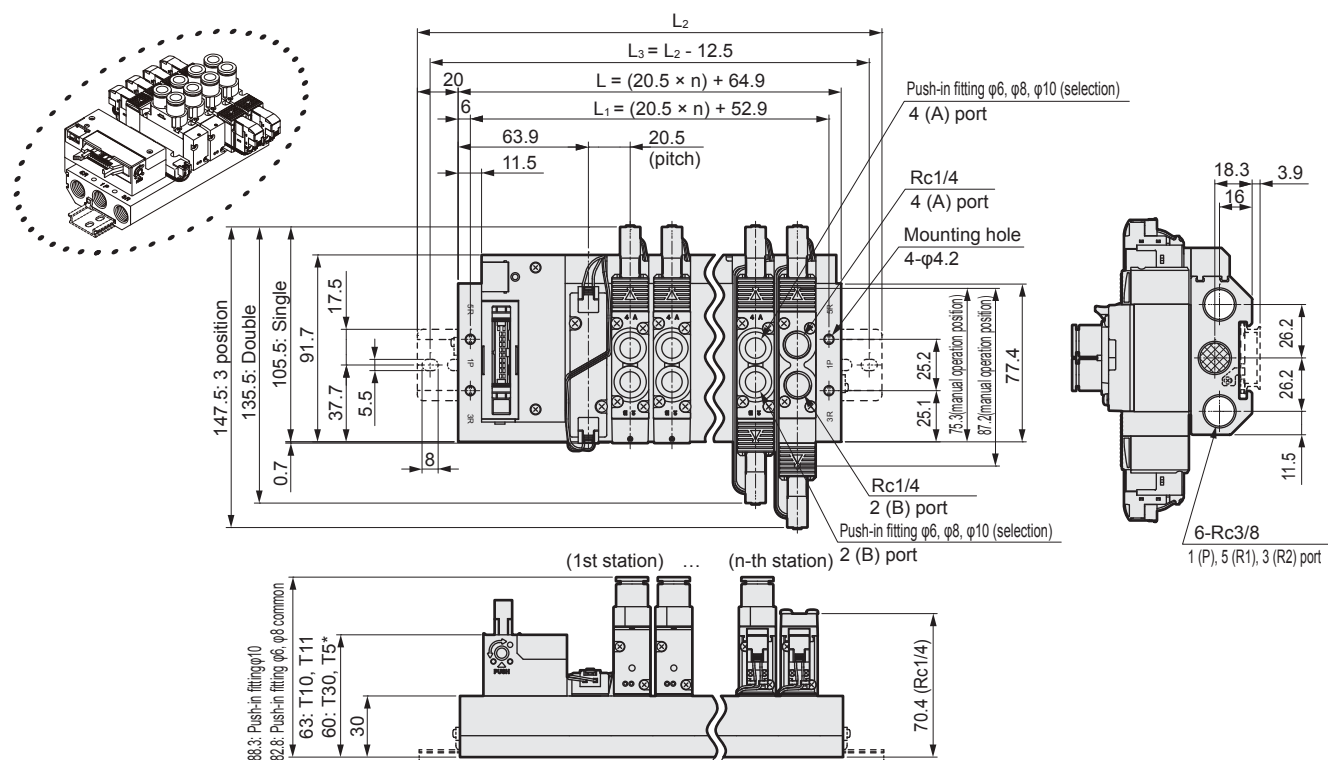


M4GA3

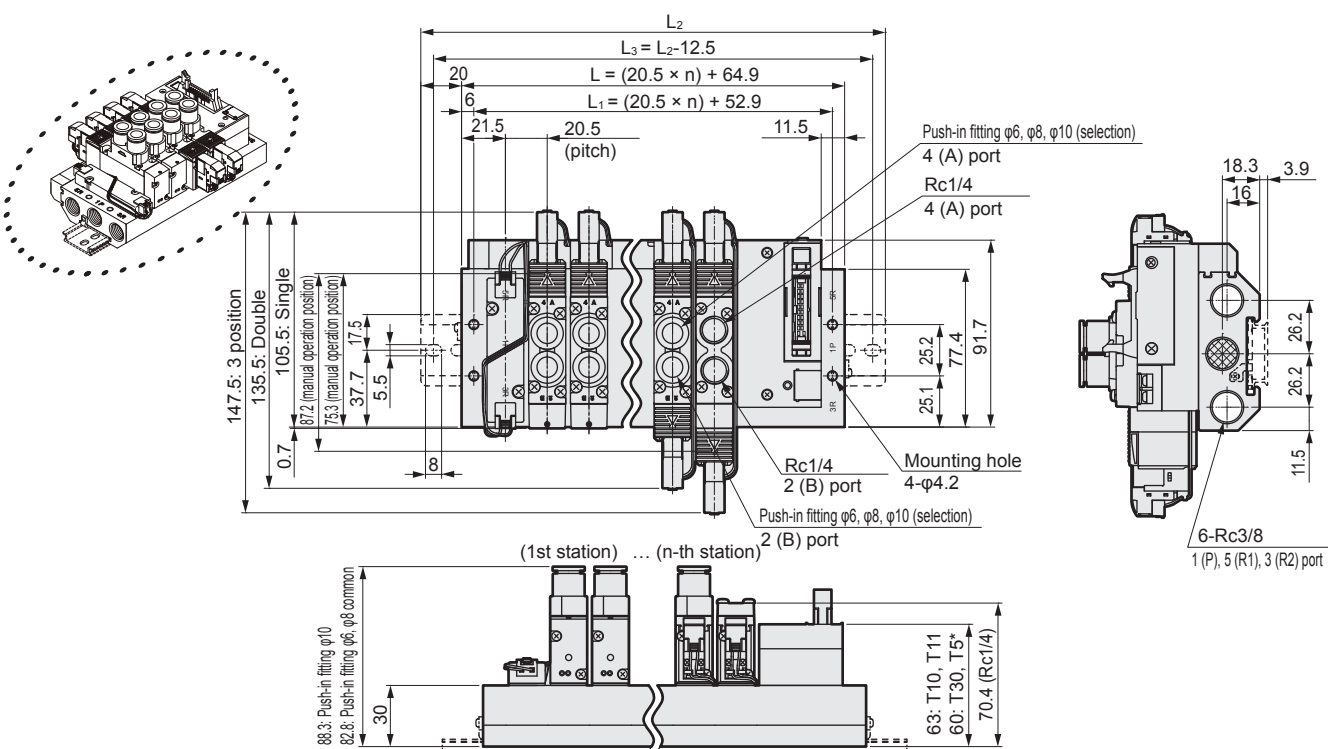
● Reduced wiring left side type (T10/T11/T30/T50/T51/T52/T53)

*This drawing shows T50. Refer to page 148 to 149 for detailed dimensions of the electrical block.

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



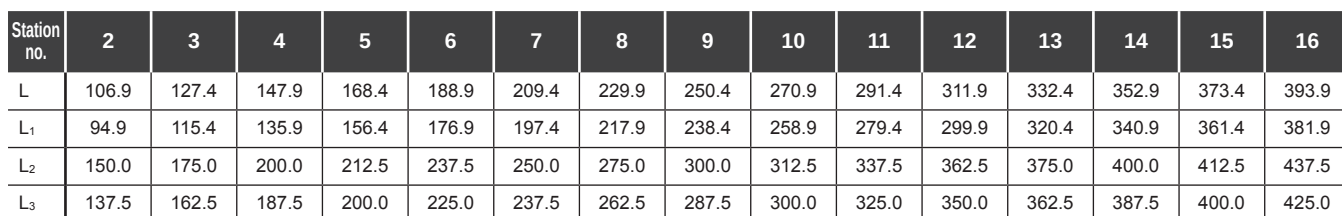
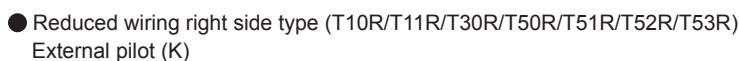
● Reduced wiring right side type (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Station 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 ₁	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 ₂	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 ₃	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

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

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



M4GA3-T6D Series

Reduced wiring manifold; body piping; serial transmission

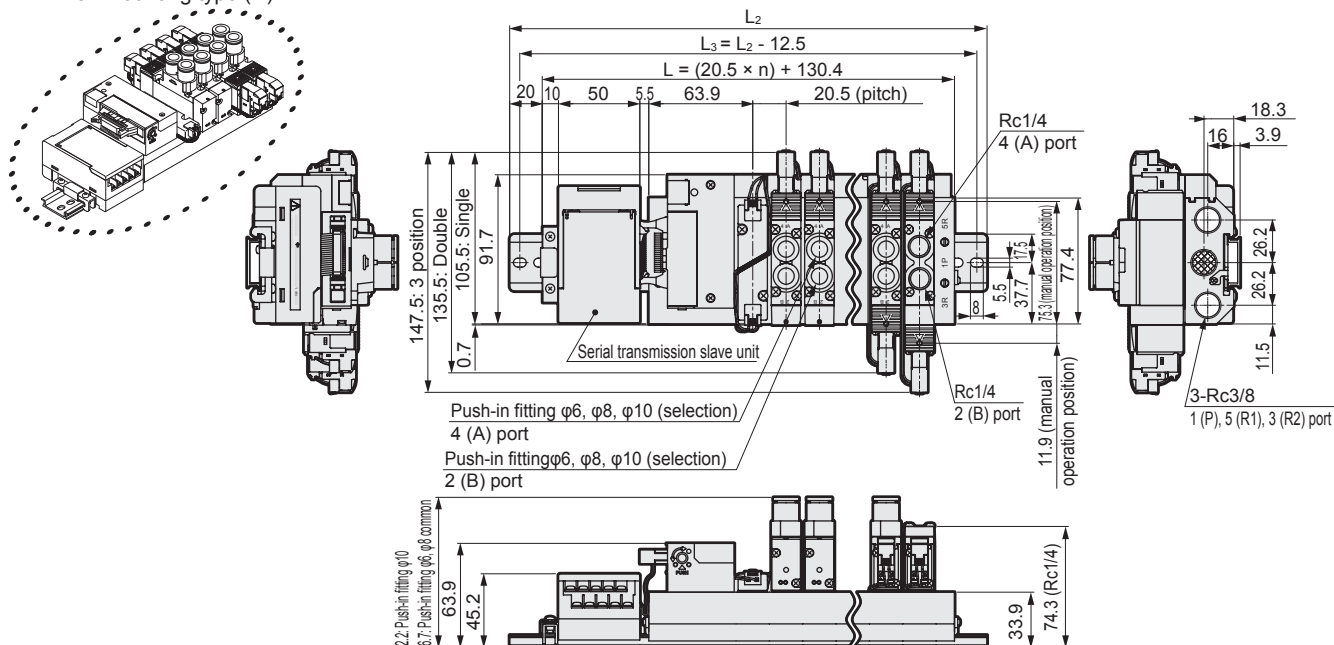
Dimensions



M4GA3

- Serial transmission (T6*)
- DIN rail mounting type (D)

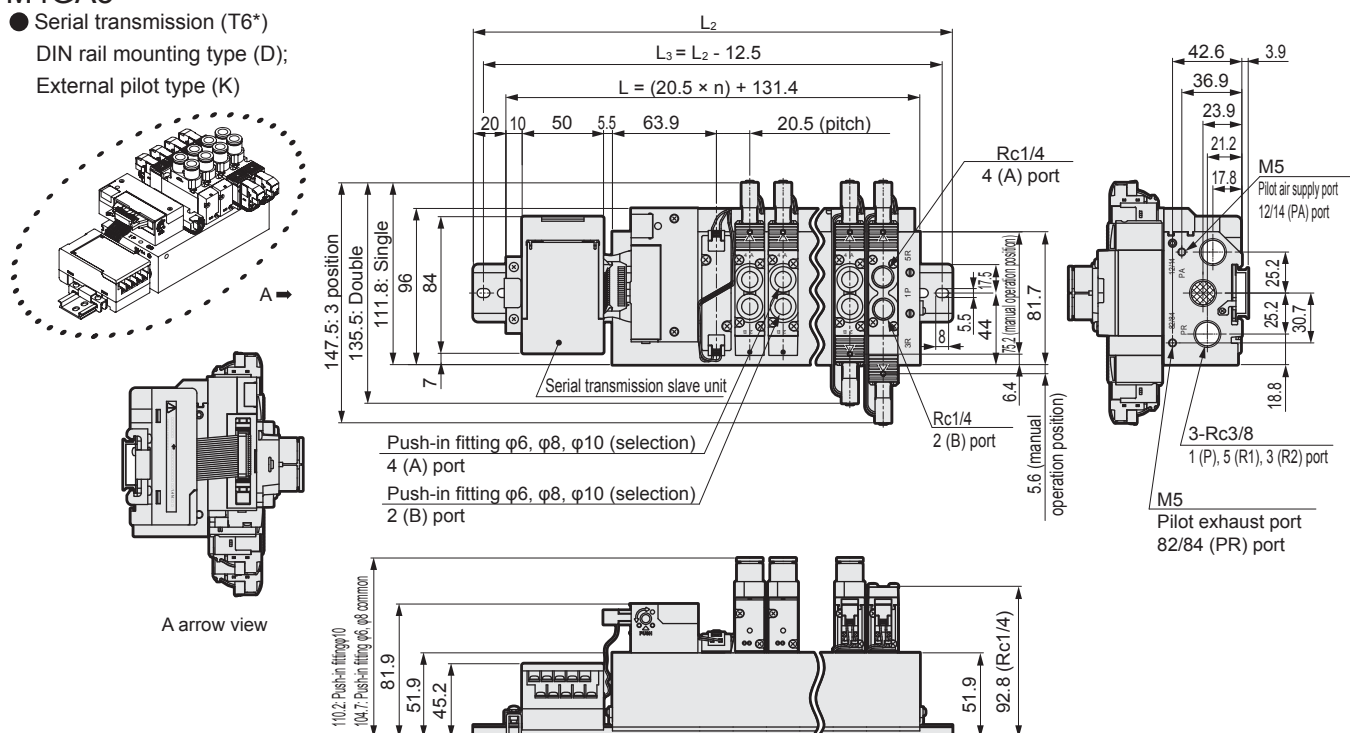
*For 2-position single 3 port valve, the port A or port B is a plug.



Station 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 ₂	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 ₃	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 type (D);
- External pilot type (K)

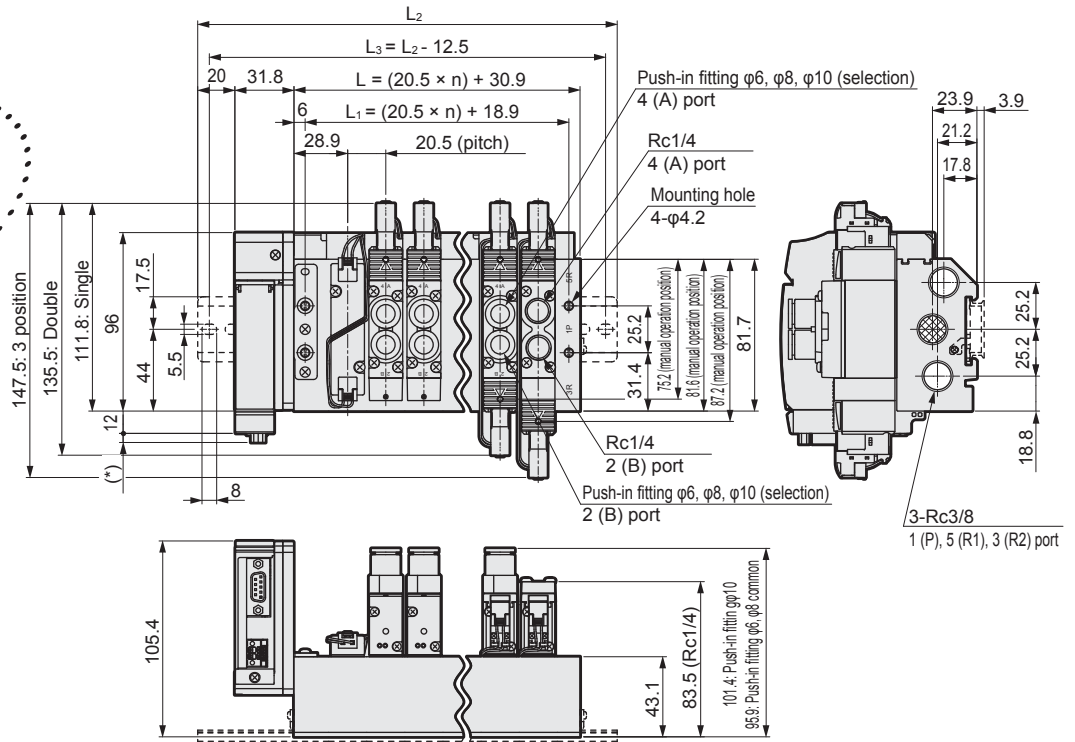
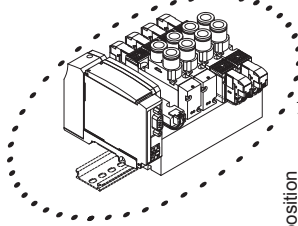


Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	172.4	192.9	213.4	233.9	254.4	274.9	295.4	315.9	336.4	356.9	377.4	397.9	418.4	438.9	459.4
L ₂	212.5	237.5	262.5	275.0	300.0	325.0	337.5	362.5	387.5	400.0	425.0	437.5	462.5	487.5	500.0
L ₃	200.0	225.0	250.0	262.5	287.5	312.5	325.0	350.0	375.0	387.5	412.5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

Dimensions

M4GA3

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

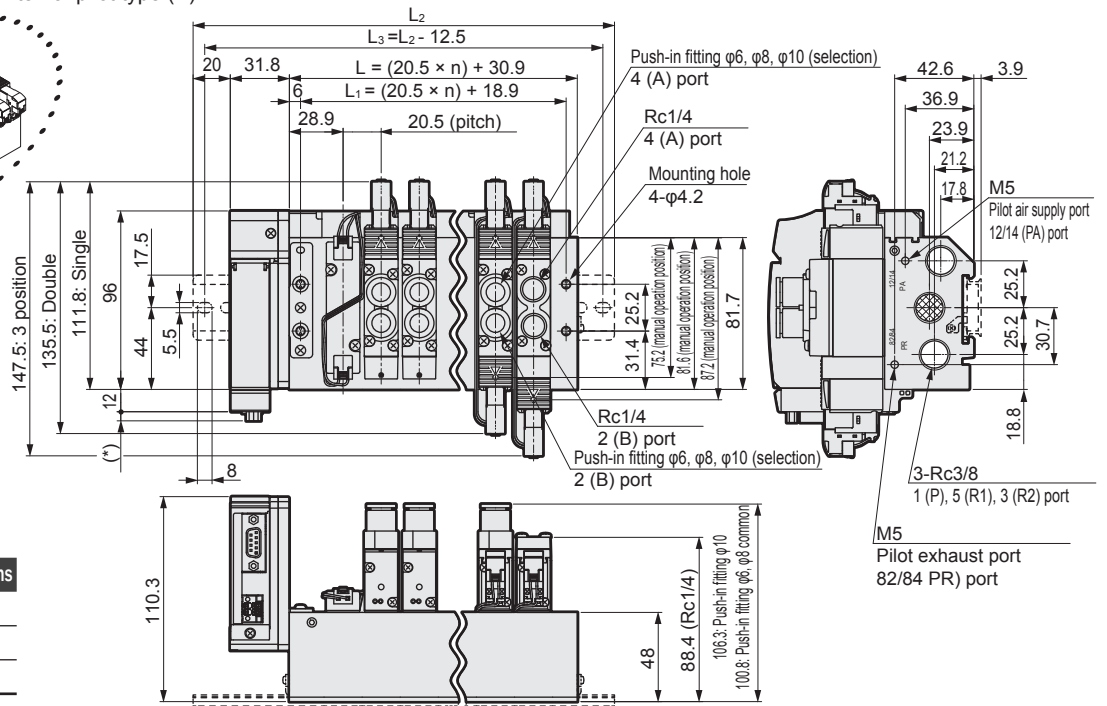
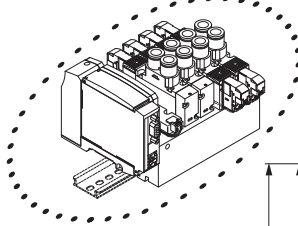


Serial transmission	(*) Dimensions
T8G*	1.0
T8P*	4.9
T8E*	3.0

Station 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 ₁	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 ₂	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 ₃	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 type (K)



Serial transmission	(*) Dimensions
T8G*	1.0
T8P*	4.9
T8E*	3.0

Station 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 ₁	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 ₂	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 ₃	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

M4GA-T* Series

Reduced wiring manifold; base piping

Electrical block part: dimensions

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

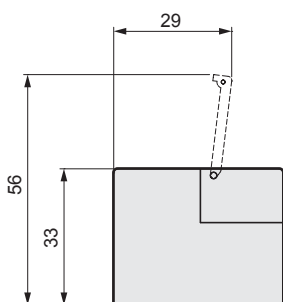
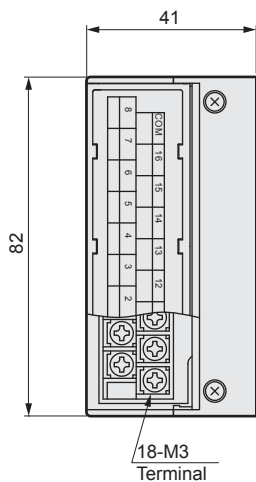
MN4GD/E

Technical data

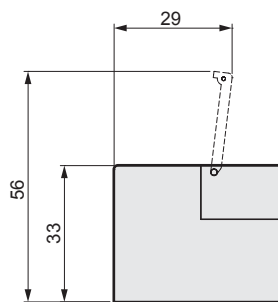
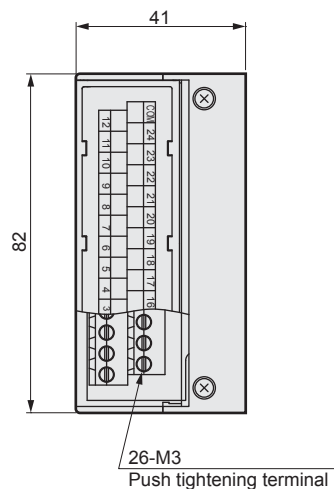
Safety
precautions

Manifold
Specifications

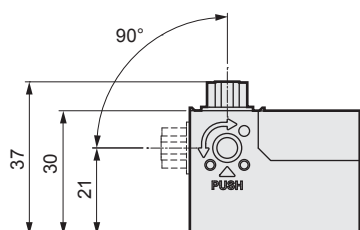
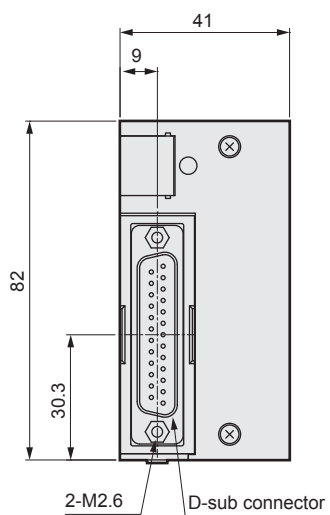
● Common terminal block (M3 thread) T10



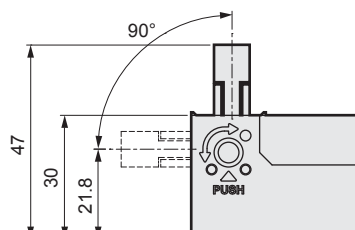
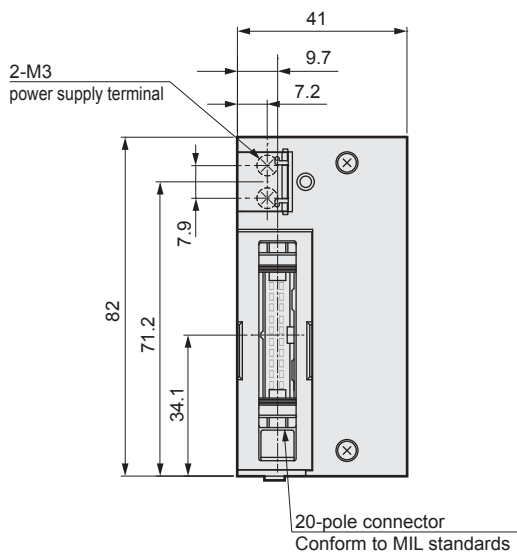
● Common terminal block (push tightening) T11



● D sub-connector T30

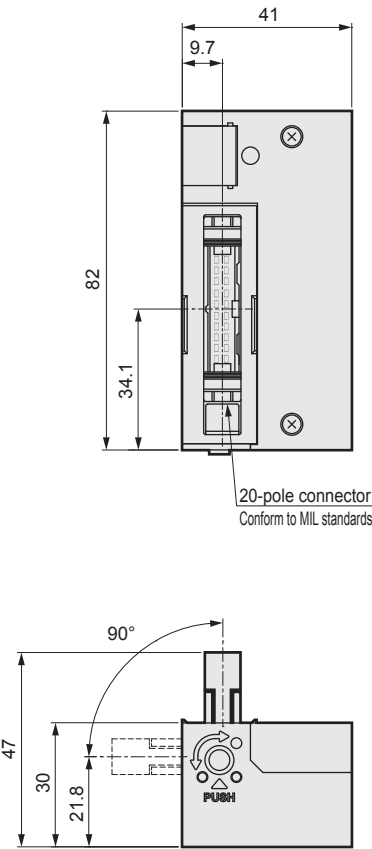


● 20 pin flat cable connector (with power supply terminal) T50

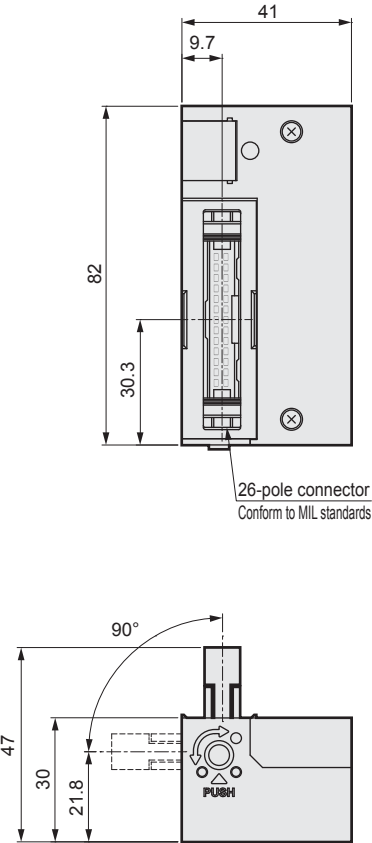


Electrical block part: dimensions

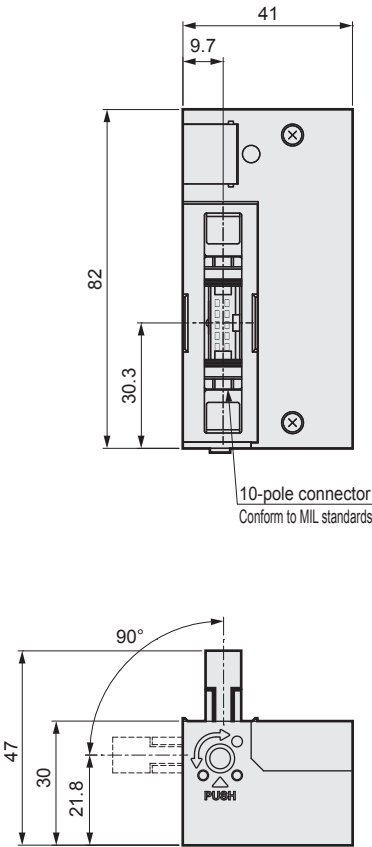
● 20 pin flat cable connector (without power supply terminal)
T51



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



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



4GA/B

M4GA/B

MN4GA/B

4GA/B
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GA3-T6D Series

Reduced wiring manifold; body piping; serial transmission

● Discrete serial transmission slave unit

4G R - OPP3 - 0A

A Wiring method

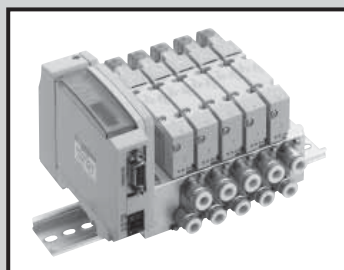
Symbol	Descriptions			
A Wiring method				
0A	T6A0	UNIWIRESYS-TEM	NPN	8 points
1A	T6A1			16 points
0C	T6C0	CompoBus/S		8 points
1C	T6C1			16 points
0E	T6E0	S-LINK		8 points
1E	T6E1			16 points
1G	T6G1	CC-Link		16 points
0J	T6J0	UNIWIRESYS-H		8 points
1J	T6J1			16 points

4G R - OPP7 - 2G

A Wiring method

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

4GA/B	M4GA/B	MN4GA/B	4GA/B Master valve	4GD/E	M4GD/E	MN4GD/E	Technical data	Safety precautions	Manifold Specifications
-------	--------	---------	-----------------------	-------	--------	---------	----------------	-----------------------	----------------------------



Reduced wiring manifold
Base piping
Direct mount type/DIN rail mount type

M3GB1, 2-T* (D) Series

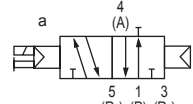
M4GB1, 2, 3-T* (D) Series

● Applicable cylinder bore size: $\phi 20$ to $\phi 100$

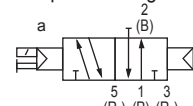


JIS symbol

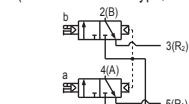
- 3 port valve
2-position single N.C. type



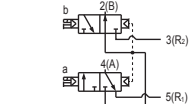
- 2-position single N.O. type



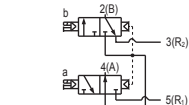
- Dual 3 port valve integrated type
(A side valve: N.C. type, B side valve: N.C. type)



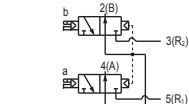
- (A side valve: N.C. type, B side valve: N.O. type)



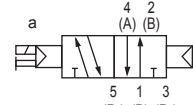
- (A side valve: N.O. type, B side valve: N.C. type)



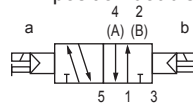
- (A side valve: N.O. type, B side valve: N.O. type)



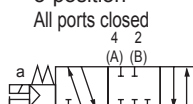
- 5 port valve
2-position single



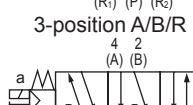
- 2-position double



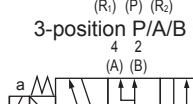
- 3-position



- 3-position A/B/R Connection



- 3-position P/A/B Connection



Manifold common specifications

Descriptions		
Manifold type		Reduced wiring integrated base
Mounting method		Direct mount type/DIN rail mount type
Supply and exhaust method		Common supply/common exhaust (check valve integrated)
Pilot exhaust method	Internal pilot	Main valve/pilot valve common exhaust (Pilot exhaust check valve integrated)
	External pilot	Main valve/pilot valve individual exhaust
Piping direction		Base part lateral direction
Valve type and operation		Pilot operated type soft spool valve
Working fluid		Compressed air
Max. working pressure MPa		0.7
Min. working pressure MPa		0.2 (Note 3)
Proof pressure MPa		1.05
Ambient temperature °C		-5 to 55 (no freezing)
Fluid temperature °C		5 to 55
Manual operating device		Non-locking/locking common type (standard)
Lubrication (Note 1)		Not required
Degree of protection (Note 2)		Dust proof
Vibration resistance m/s ²		50 or less
Shock resistance m/s ²		300 or less
Atmosphere		Containing corrosive gas is not permissible

Common specifications

Descriptions		M3GB1/M4GB1	M3GB2/M4GB2	M3GB3/M4GB3
Port size	A/B port	Barbed fitting $\phi 1.8$ Barbed fitting $\phi 1.8, \phi 4, \phi 6, \phi 8$ (Note 6) M5	Push-in fitting $\phi 4, \phi 6, \phi 8, \phi 10$ (Note 6) Rc1/8	Push-in fitting $\phi 6, \phi 8, \phi 10$ Rc1/4
	P/R1/R2 port	Rc1/8	Rc1/4	Rc3/8

Note 6 This is a available consult factory 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.) g	Standard	43n+335	45n+348	80n+398	82n+431	124n+548	126n+582
	External pilot	44n+330	46n+344	88n+433	90n+467	129n+577	131n+606

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
	External pilot	12 stations		
Manifold base weight calculation formula (n: station no.) g	Standard	45n+495	82n+578	126n+729
	External pilot	46n+491	90n+615	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.) g	Standard	46n+305	49n+332	83n+318	86n+350	128n+384	132n+416
	External pilot	48n+312	51n+339	91n+336	94n+368	146n+417	150n+449

The manifold base weight is the value for screw connection specifications with the DIN rail and electrical block.

The max. station no. of the manifold is limited by the max. number of solenoid for each of the following wiring specifications.

M₄GB1, 2, 3-T* (D) Series

Reduced wiring manifold; base piping

Flow characteristics

Model no.	Valve Position	P→A/B		A/B→R1/R2	
		C [dm ³ /(s/bar)]	b	C [dm ³ /(s/bar)]	b
M3GB1 M4GB1	Dual 3 port valve integrated type	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	0.98	1.1 -	0.24 -
		ABR connection	0.97	1.3 (0.68)	0.22 (0.24)
M3GB2 M4GB2	PAB connection	1.1	0.38	1.1 -	0.21 -
	Dual 3 port valve integrated type	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	2.2	2.4 -	0.29 -
		ABR connection	2.2	2.8 (1.8)	0.24 (0.27)
M4GB3	PAB connection	2.4	0.29	2.4 -	0.29 -
	2-position	3.5	0.34	3.8 (2.6)	0.11 (0.27)
	3-position	All ports closed	3.1	3.3 -	0.22 -
		ABR connection	3.0	3.8 (2.7)	0.11 (0.22)
	PAB connection	3.6	0.36	3.3 -	0.28 -

Note 1: Effective cross-sectional area S and sonic conductance C are converted as $S \approx 5.0 \times C$. Note 2: Values in () apply when a check valve is attached.

Wiring specifications

Descriptions	T10* Centralized terminal block type	T11* Centralized terminal block type	T30* D-sub-connector	T50* Flat cable 20 pin type	T51* Flat cable 20 pin type	T52* Flat cable 10 pin type	T53* Flat cable 26 pin type
Connector and Terminal block specifications	M3 thread tightening type 18 terminals	Push tightening type 26 terminals	D sub connector 25 pin	MIL-C-83503 standards conformed pressure welding socket 20 pin	MIL-C-83503 standards conformed pressure welding socket 20 pin	MIL-C-83503 standards conformed pressure welding socket 10 pin	MIL-C-83503 standards conformed pressure welding socket 26 pin
Max. number of solenoid	16 points	24 points	24 points	16 points	18 points	8 points	24 points
Manifold internal wiring	Details on page 594 to 601						
Electrical block position Blank: Left side R: Right side	Left side: T* Right side: T*R						
Arrangement type Blank: Standard sequential W: Double wiring	(Example) T50* Manifold specifications						

Serial transmission slave unit specifications

Descriptions		T6G1 ^{Note 1}	T6C0 ^{Note 2} T6C1	T6A0 ^{Note 3} T6A1	T6E0 T6E1	T6J0 ^{Note 3} T6J1
Network name		CC-Link	CompoBus/S	UNIWIRESYSTEM	S-LINK	UNIWIRESYSTEM
Power supply voltage	Unit side	24 VDC ±10%			24 VDC +10% ± -5% (Unit power supply/valve power supply common terminal)	
	Valve side	24 VDC +10% ± -5%				
Current consumption	Unit side	100 mA or less (when all output points are ON)			100 mA or less (when all output points are ON) Load current is not included	
	Valve side	15mA or less (when all output points are OFF)				
Output points		16 points	T6*0: 8 points T6*1: 16 points			
Occupied number		1 station	T6C0: 1 node address (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 state)				

Note 1: CC-Link is ver1.10. Note 2: Long-distance communication mode is not supported. Contact CKD for details on its support.

Note 3: The number of transmission points of 128 points and the 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
Network 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	Unit side	60mA or less (when all output points are ON)	60mA or less (when all output points are ON)		110mA or less (when all output points are ON)		120mA or less (when all output points are ON)		
	Valve side	T8*1: 15mA or less T8*2: 20mA 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 state)							
Output type		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; body piping

How to order

Manifold model no.

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

3 port manifold model no.

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

● Discrete valve for mounting base

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

● 3 port discrete valve for mounting base

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

B Valve Position

A Model no.

C Port size
Note 3
Note 4

D Reduced wiring

E Terminal and connector pin array

- Refer to page 597 for cable model no. with D-sub connector.
- Refer to page 593 for cable model no. for flat cable connector.

Note on model no. selection

- Note 1 Select M4GB*80R when mixing with 3, 5 port valves.
Select M3GB*80R when mixing with the masking plate.
- Note 2 Combination with the external pilot (K) is not available. Dimensions are the same as the respective 2-position double.
- Note 3 CL* push-in fitting L type (upward) is available only for the single solenoid manifold. The port A is a long elbow and the port B is short elbow.
- Note 4 A/B port sizes do not differ for the push-in fitting L type.
- Note 5 The 4G1's C8 and 4G2's C10 are available consult factory order. In addition, this does not handle the push-in fitting mix.
- Note 6 Blank····Wired based on the type of valve used.
W*····Wired for the double solenoid regardless of the type of valve used.
- Note 7 Reduced wiring (A type socket assembly) is attached to the cap side.
The discrete valve (A2N) comes with a holder for holding the socket assembly. Refer to page 188 for details.
- Note 8 3-position all ports closed and PAB connection are not provided with check valve (H). Refer to Page 628 for details on the check valve.
- Note 9 Consult CKD when using a vacuum with the external pilot (K).
- Note 10 Only the E2* type, E2* J type connector and 12/24 VDC are supported. In addition, the surgeless "S" and low heat energy-saving circuit "E" cannot be selected at the same time.
- Note 11 This is surgeless specifications.
- Note 12 The P port has a filter built inside as a standard.
- Note 13 Specify the spacer mounting location and quantity in manifold specifications.
Stacking multiple spacers is not supported. Combination with the masking plate is not supported. Refer to page 180 to 184 for details.
- Note 14 Combination with the external pilot (K) is not available.
- Note 15 Combination with the push-in fitting L type (upward) is not available.

F Option

G Mount type

H Station no.

I Voltage

A Model No.

3GB1 3GB2 4GB1 4GB2 4GB3

B Valve Position

1	2-position single				●	●	●
2	2-position double				●	●	●
3	3-position all ports closed				●	●	●
4	3-position ABR connection				●	●	●
5	3-position PAB connection				●	●	●
66	Dual 3 port valve integrated type	A side valve: Normally closed	●	●			
		B side valve: Normally closed					
67		A side valve: Normally closed	●	●			
		B side valve: Normally open					
76	Note 1, 2	A side valve: Normally open	●	●			
		B side valve: Normally closed					
77		A side valve: Normally open	●	●			
		B side valve: Normally open					
8	Mix manifold (In case of multiple Valve Positions)		●	●	●	●	●

C Port size

Port	4 (A) / 2 (B) port	P/R1/R2 port ① = Rc1/8 ② = Rc1/4 ③ = Rc3/8			
CF	φ1.8 barbed fitting (applicable tube UP-9102-*)	②	②		
C18	φ1.8 push-in fitting (applicable tube UP-9402-*)	②	②		
C4	φ4 push-in fitting	②	③	②	③
C6	φ6 push-in fitting	②	③	②	③
C8	φ8 push-in fitting	②	③	②	③
C10	φ10 push-in fitting	②	③	②	③
CL18	L type φ1.8 push-in fitting (upward) (applicable tube UP-9402-*)		②		
CL4	L type φ4 push-in fitting (upward)		②		
CL6	L type φ6 push-in fitting (upward)		②	③	
CL8	L type φ8 push-in fitting (upward)			③	④
CL10	L type φ10 push-in fitting (upward)				④
CD18	L type φ1.8 push-in fitting (downward) (applicable tube UP-9402-*)	②	②		
CD4	L type φ4 push-in fitting (downward)	②	②		
CD6	L type φ6 push-in fitting (downward)	②	③	②	③
CD8	L type φ8 push-in fitting (downward)		③		③
CD10	L type φ10 push-in fitting (downward)				④
CX	Push-in fitting mix	②	③	②	③
M5	M5	②	②		
06	Rc1/8		③		③
08	Rc1/4				④
00	Discrete valve for mounting base	●	●	●	●

D Reduced wiring connection

Refer to the next page for wire connections.

E Terminal and connector pin wiring

Blank	Standard wiring	Note 6	●	●	●	●	●
W	Double wiring	Note 6	●	●	●	●	●
W1	Double wiring (With single reduced wiring)	Note 6, Note 7	●	●	●	●	●

F Option

Blank	Non-locking/locking common manual override	●	●	●	●	●	●
M	Non-locking manual override	●	●	●	●	●	●
H	With check valve	Note 8	●	●	●	●	●
K	External pilot	Note 9	●	●	●	●	●
A	Ozone/cutting oil proof		●	●	●	●	●
S	Surgeless	Note 10	●	●	●	●	●
E	Low heat and energy saving circuit	Note 10, Note 11	●	●	●	●	●
F	A/B port filter integrated	Note 12	●	●	●	●	●
Z1	Air supply spacer	Note 13	●	●	●	●	●
Z2	In stop valve spacer	Note 13, Note 14	●	●	●	●	●
Z3	Exhaust spacer	Note 13	●	●	●	●	●
Z6	Spacer type pilot check valve	Note 13, Note 15	●	●	●	●	●

G Mount type

Blank	Direct mount type	●	●	●	●	●	●
D	DIN rail mount type	●	●	●	●	●	●

H Station no.

2	2 stations						
to	to	●	●	●	●	●	●
20	Refer to page 152 for the max. station no. per port size.						

H Voltage

3	24 VDC	●	●	●	●	●	●
4	12 VDC	●	●	●	●	●	●

is not available.

M4GB1, 2, 3-T* (D) Series

Reduced wiring manifold; body piping

			A Model No.			
			3GB1	3GB2	4GB1	4GB2
D Reduced wiring connection (light and surge suppressor provided as standard) 12/24 VDC						
T10	Common terminal block (M3 thread)	Left side specifications	●	●	●	●
T10R		Right side specifications	●	●	●	●
T11	Common terminal block (push tightening)	Left side specifications	●	●	●	●
T11R		Right side specifications	●	●	●	●
T30	D-sub-connector	Left side specifications	●	●	●	●
T30R		Right side specifications	●	●	●	●
T50	20 pin flat cable connector (with power supply terminal)	Left side specifications	●	●	●	●
T50R		Right side specifications	●	●	●	●
T51	20 pin flat cable connector (without power supply terminal)	Left side specifications	●	●	●	●
T51R		Right side specifications	●	●	●	●
T52	10 pin flat cable connector (without power supply terminal)	Left side specifications	●	●	●	●
T52R		Right side specifications	●	●	●	●
T53	26 pin flat cable connector (without power supply terminal)	Left side specifications	●	●	●	●
T53R		Right side specifications	●	●	●	●

			A Model No.			
			3GB1	3GB2	4GB1	4GB2
D Serial transmission (light and surge suppressor provided as standard) 24 VDC						
T6A0	UNIWIRED SYSTEM	NPN 8 points	●	●	●	●
T6A1		NPN 16 points	●	●	●	●
T6C0	CompoBus/S	NPN 8 points	●	●	●	●
T6C1		NPN 16 points	●	●	●	●
T6E0	S-LINK	NPN 8 points	●	●	●	●
T6E1		NPN 16 points	●	●	●	●
T6G1	CC-Link	NPN 16 points	●	●	●	●
T6J0		NPN 8 points	●	●	●	●
T6J1	UNIWIRED H SYSTEM	NPN 16 points	●	●	●	●
T8G1		NPN 16 points	●	●	●	●
T8G2	CC-Link (Thin type)	NPN 32 points	●	●	●	●
T8GP1		PNP 16 points	●	●	●	●
T8GP2		PNP 32 points	●	●	●	●
T8P1		NPN 16 points	●	●	●	●
T8P2	PROFIBUS-DP (Thin type)	NPN 32 points	●	●	●	●
T8PP1		PNP 16 points	●	●	●	●
T8PP2		PNP 32 points	●	●	●	●
T8EC1		NPN 16 points	●	●	●	●
T8EC2	EtherCAT (Thin type)	NPN 32 points	●	●	●	●
T8ECP1		PNP 16 points	●	●	●	●
T8ECP2		PNP 32 points	●	●	●	●
T8EN1		NPN 16 points	●	●	●	●
T8EN2	EtherNet/IP (Thin type)	NPN 32 points	●	●	●	●
T8ENP1		PNP 16 points	●	●	●	●
T8ENP2		PNP 32 points	●	●	●	●
A2N		Without lead wire (without socket) with a light/surge suppressor	●	●	●	●

Ozone proof specifications / Cutting oil proof type specifications

Select the option "A" of (F) in how to order on page 154.

Clean room specifications (Catalog No. CB-033S)

- Particle generation preventing structure for use in clean rooms

** - Voltage - P7*

Specifications for secondary battery (Catalog No. CC-947A)

- In order to be applicable for secondary battery manufacturing process, confine materials for air passage and sliding section

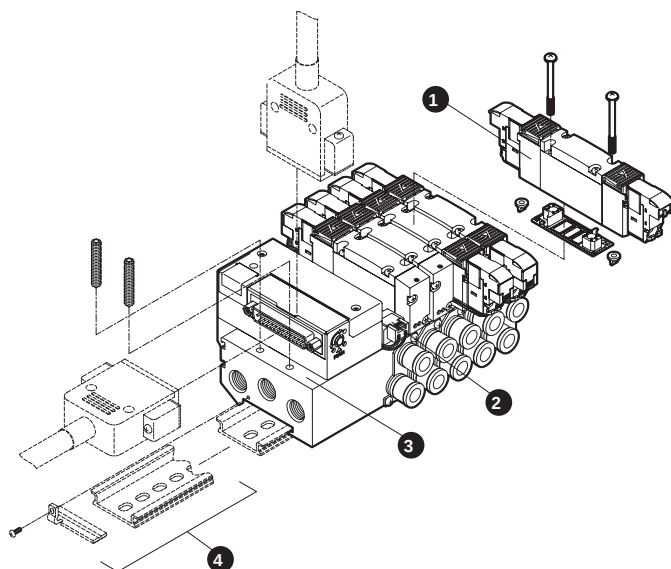
** - Voltage - P4

M4GA1, 2, 3-T* (D) Series

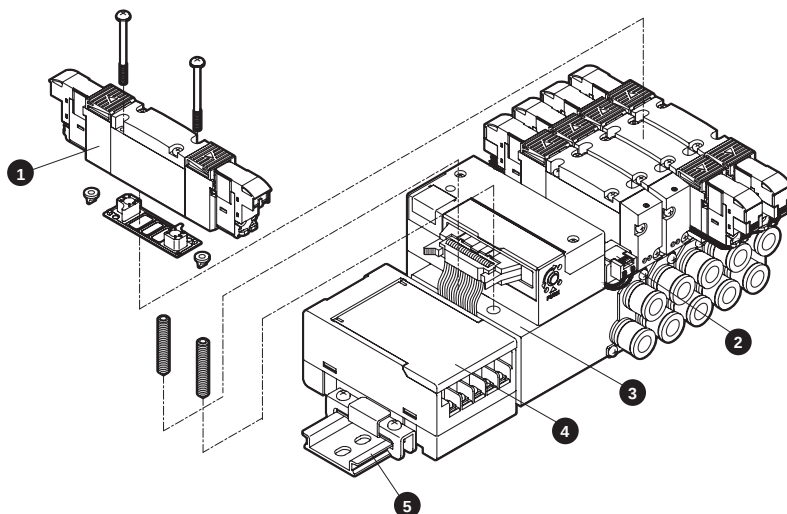
Reduced wiring manifold; body piping

Manifold components explanation and parts list

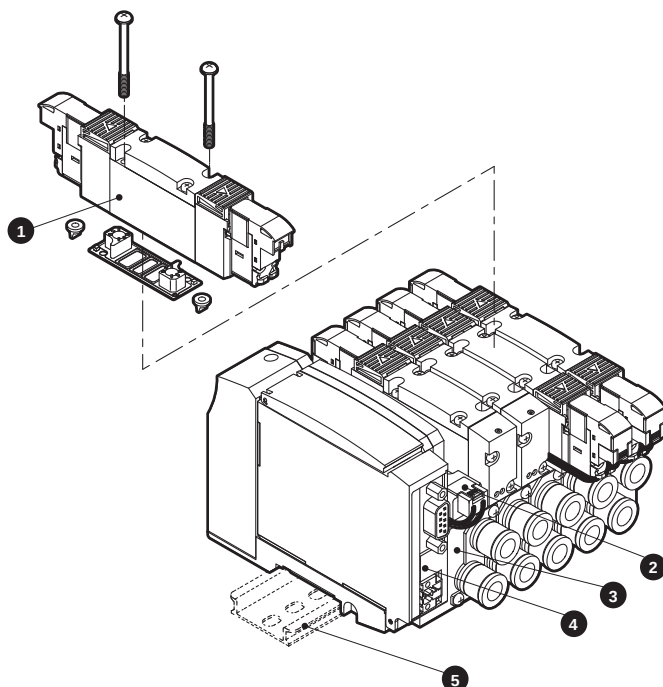
● T30



● T6D



● T8*



The M4GA2-T8 and M4GA3-T8 series mount type (direct, DIN rail) can not be changed after purchase.
The M4GB1-T8 series can be changed.

M4GA1, 2, 3-T* (D) Series

Reduced wiring manifold; body piping

Main components list

No.	Component name	Model no.	Descriptions	Remarks
1	Discrete valve for mounting base	3 4 GB**9R-00-A2N [Option] - [Voltage] Valve Position Series flow rate size	Discrete valve Gasket Set screw 2 PR check valve 2	Details on page154
2	Masking plate	3G1 & 4G1 4G1R-MP 3G2 & 4G2 4G2R-MP 3G2 & 4G3 4G3R-MP	Masking plate Gasket Set screw 2	*3G3 & 4G3 has two PR check valves.
3	Manifold base assembly	M4GB* R- [Port size] - [T56] - [Option] - [Station no.] Series flow rate size	Manifold base Electrical block	
4	Serial transmission slave unit	4GR-OPP3- [Wiring method] 4GR-OPP7- [Wiring method]	Serial transmission slave unit	Details on page178
5	DIN rail kit			Details on page191

Parts list

No.	Parts name	Model no.	No.	Parts name	Model no.
-	Coil assembly	4GR-A2N- * -COIL- [Voltage] Blank: Standard A: 0zone/cutting oil specifications	-	Cartridge type push-in fitting and related parts	
-	A type connector socket assembly Details on page 613	4GR * -SOCKET-ASSY-A * * - [Row no.] Blank: Left side, R: Right side A: aSOL side, B: bSOL side n: Specify the position of the valve to be connected	-	4G1	φ1.8 barbed type 4G1R-JOINT-CF φ1.8 straight type 4G1R-JOINT-C18 φ4 straight type 4G1R-JOINT-C4 φ6 straight type 4G1R-JOINT-C6 φ8 straight type 4G1R-JOINT-C8 φ1.8 elbow type 4G1R-JOINT-CL18,CLL18 φ4 elbow type 4G1R-JOINT-CL4,CLL4 φ6 elbow type 4G1R-JOINT-CL6,CLL6 Plug cartridge 4G1R-JOINT-CPG
			-	4G2	φ4 straight type 4G2R-JOINT-C4 φ6 straight type 4G2R-JOINT-C6 φ8 straight type 4G2R-JOINT-C8 φ10 straight type Note 1 4G2R-JOINT-C10 φ6 elbow type 4G2R-JOINT-CL6,CLL6 φ8 elbow type 4G2R-JOINT-CL8,CLL8 Plug cartridge 4G2R-JOINT-CPG
			-	4G3	φ6 straight type 4G3R-JOINT-C6 φ8 straight type 4G3R-JOINT-C8 φ10 straight type 4G3R-JOINT-C10 φ8 elbow type 4G3R-JOINT-CL8,CLL8 φ10 elbow type 4G3R-JOINT-CL10,CLL10

Note 1 These are common parts with the φ10 straight type for the 4G3.

M4GB1-T* Series

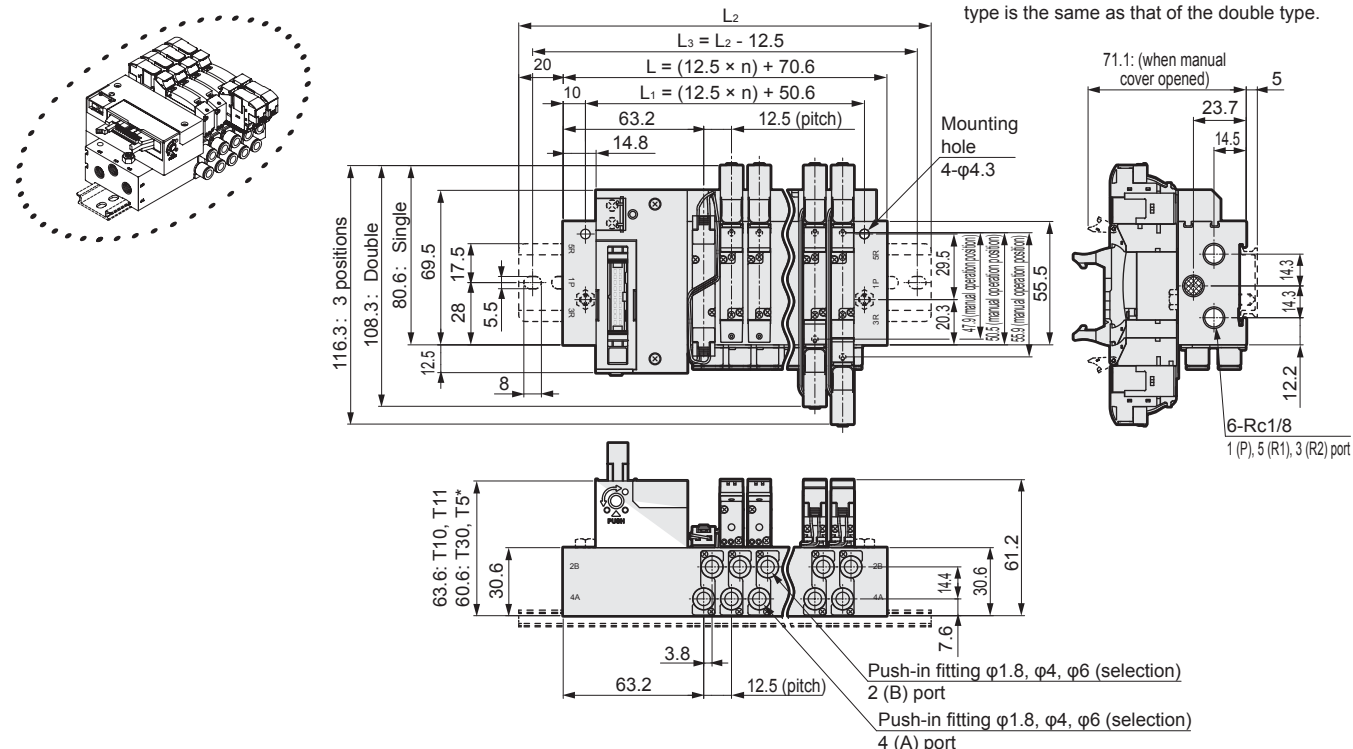
Reduced wiring manifold; base piping

Dimensions 

M4GB1

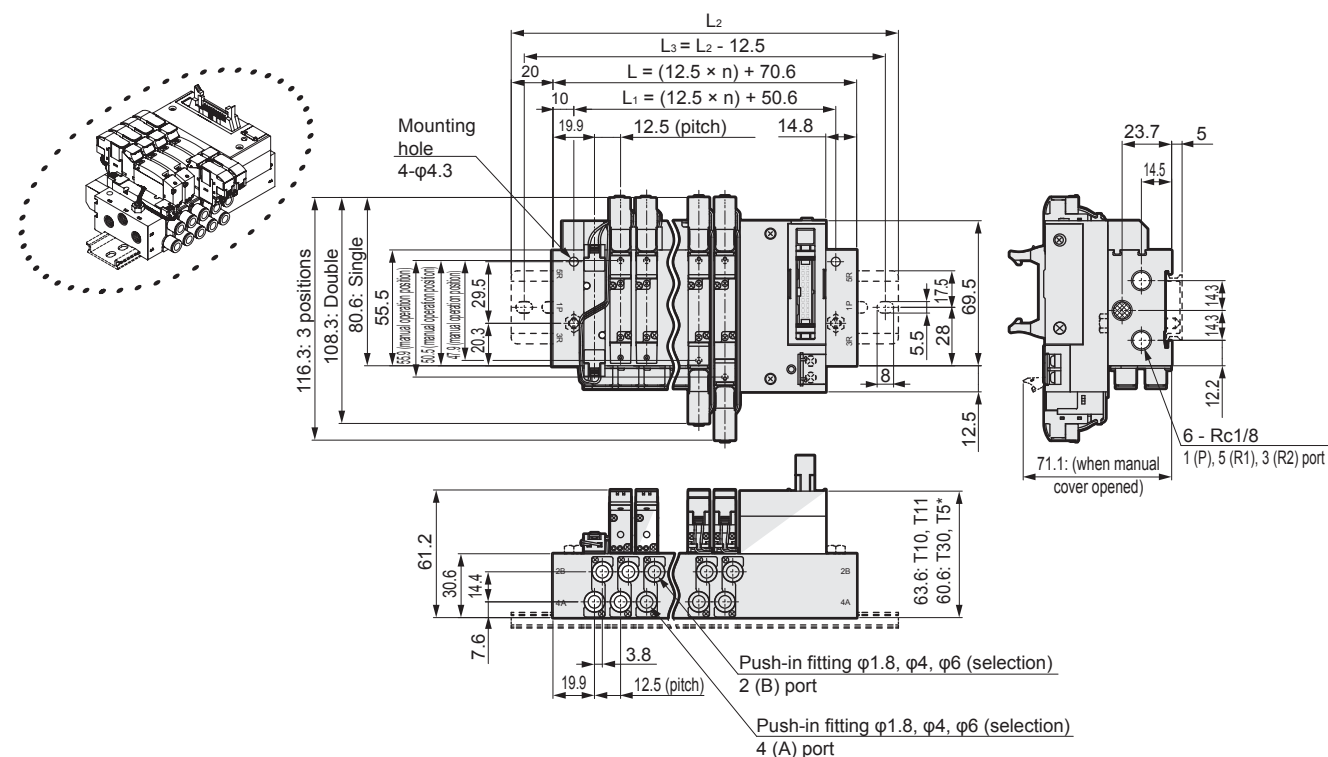
● Reduced wiring Left side type (T10/T11/T30/T50/T51/T52/T53)

* 1 This drawing shows T50. Refer to page 174 for detailed dimensions of the electrical block.
* 2 The dimension of dual 3 port valve integrated type is the same as that of the double type.



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

Note: Refer to page 175 for details on the push-in fitting elbow type (upward) (downward).

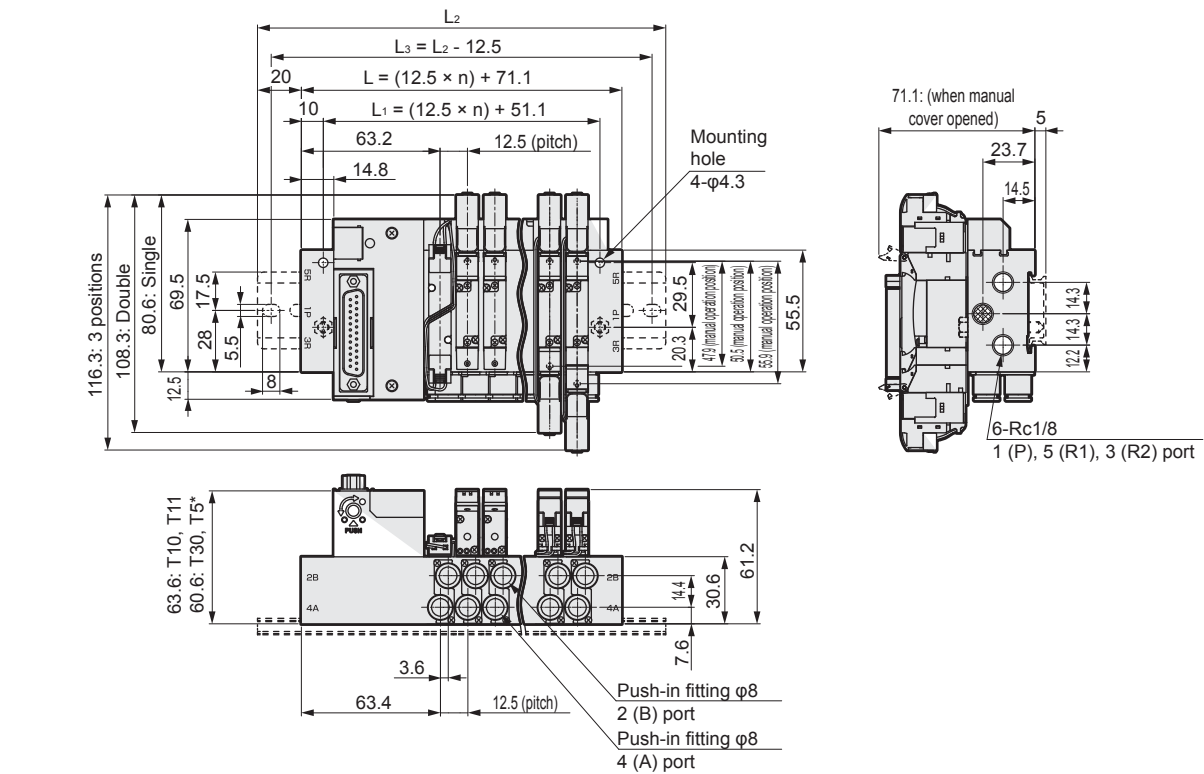


Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	95.6	108.1	120.6	133.1	145.6	158.1	170.6	183.1	195.6	208.1	220.6	233.1	245.6	258.1	270.6	283.1	295.6	308.1	320.6
L ₁	75.6	88.1	100.6	113.1	125.6	138.1	150.6	163.1	175.6	188.1	200.6	213.1	225.6	238.1	250.6	263.1	275.6	288.1	300.6
L ₂	137.5	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 ₃	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				

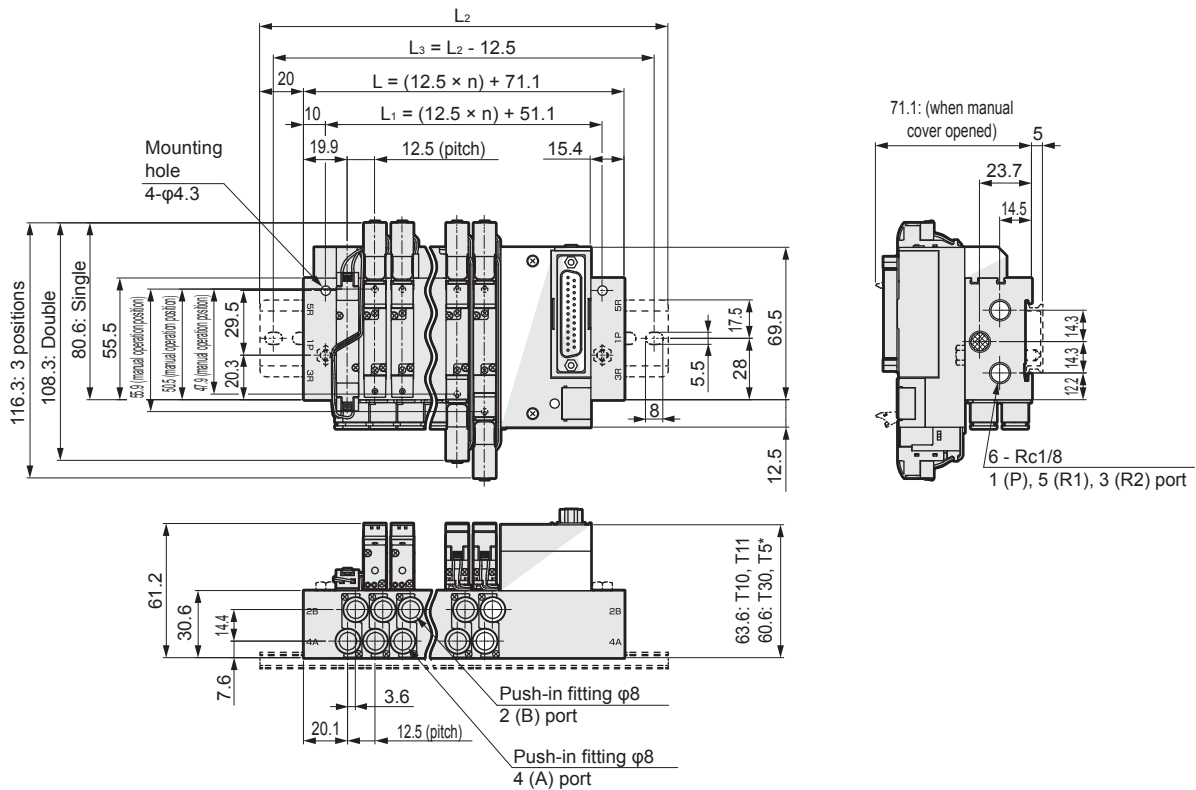
Dimensions

M4GB1-C8

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



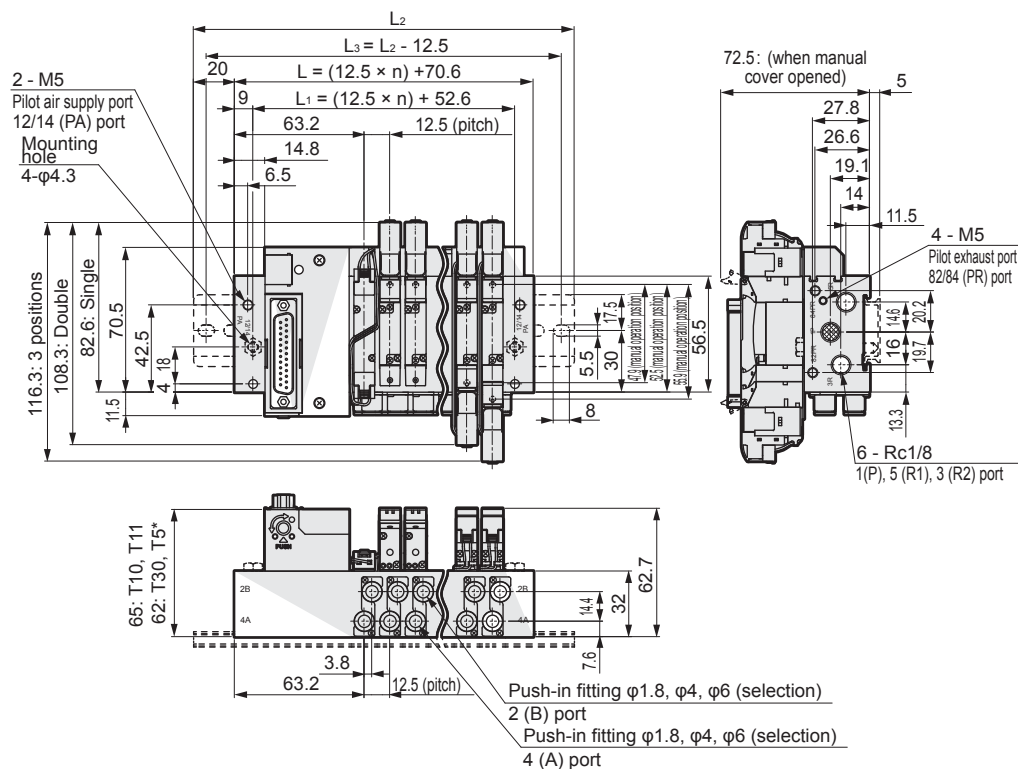
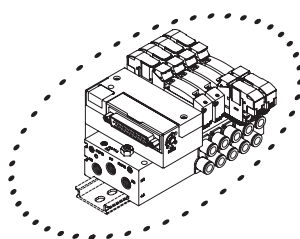
- Reduced wiring Right side type (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Station 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 ₁	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 ₂	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 ₃	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				

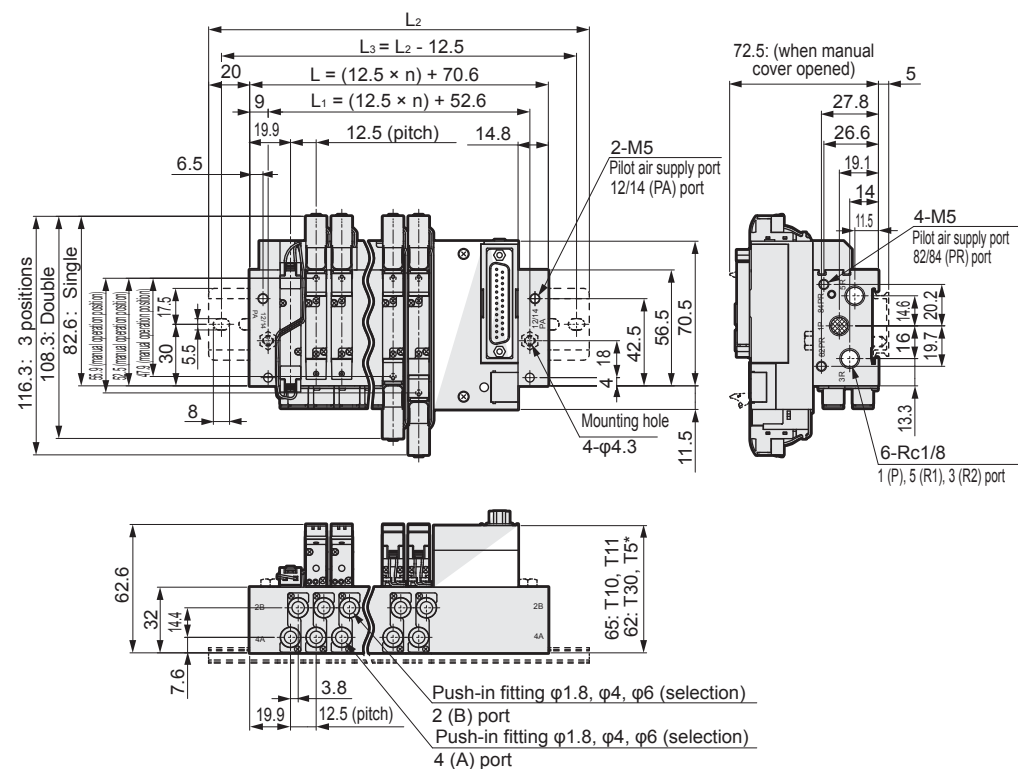
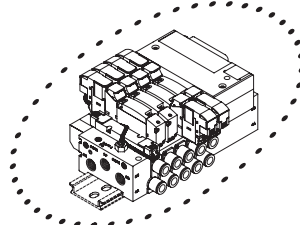
Dimensions

● Reduced wiring Left side type (T10/T11/T30/T50/T51/T52/T53)
External pilot (K)



Note: Refer to page 166 for details on the push-in fitting elbow type (upward) (downward).

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

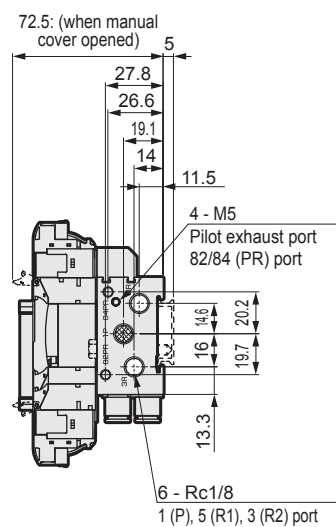
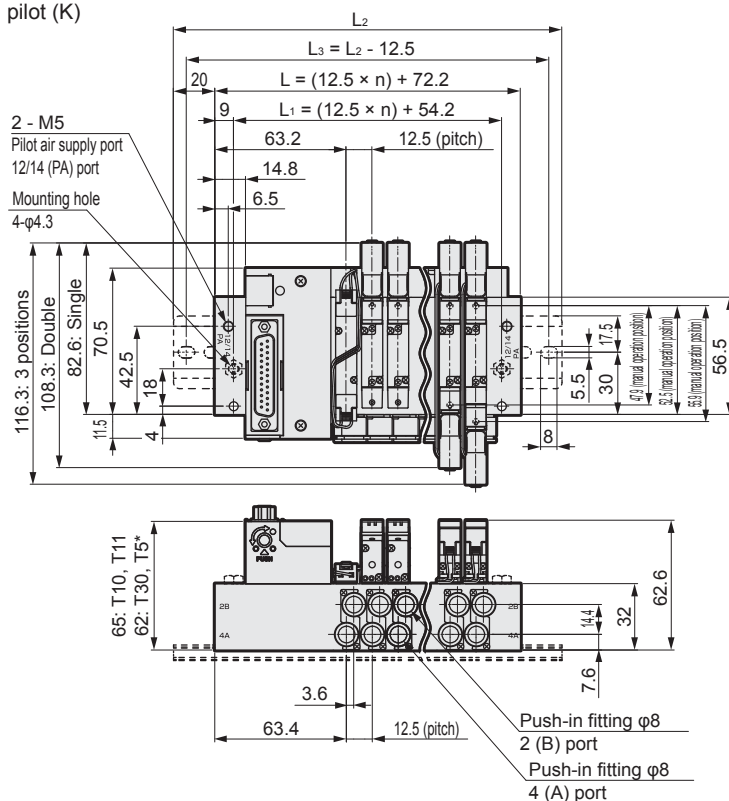


Station no.	2	3	4	5	6	7	8	9	10	11	12
L	95.6	108.1	120.6	133.1	145.6	158.1	170.6	183.1	195.6	208.1	220.6
L ₁	77.6	90.1	102.6	115.1	127.6	140.1	152.6	165.1	177.6	190.1	202.6
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5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

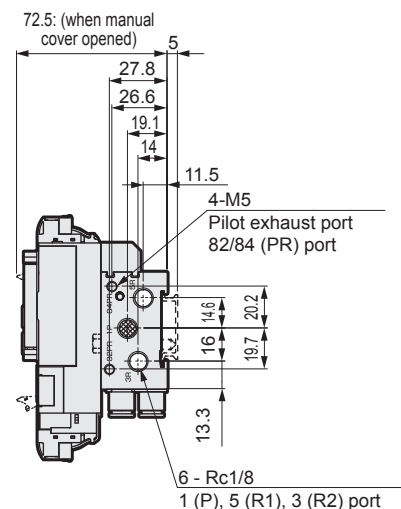
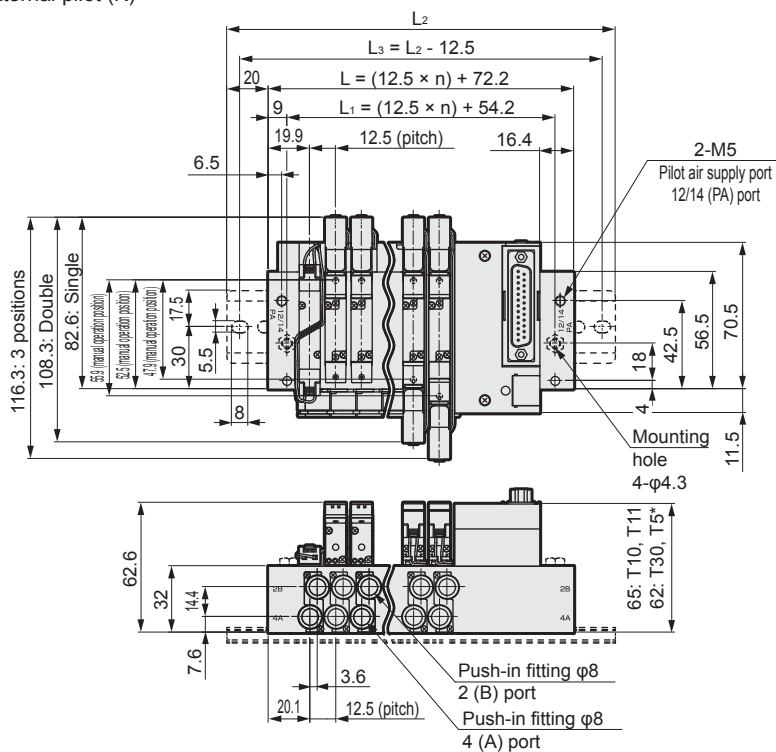
Dimensions

M4GB1-C8

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



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



Station 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 ₁	79.2	91.7	104.2	116.7	129.2	141.7	154.2	166.7	179.2	191.7	204.2
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

M4GB1-T6D Series

Reduced wiring manifold; base piping; serial transmission

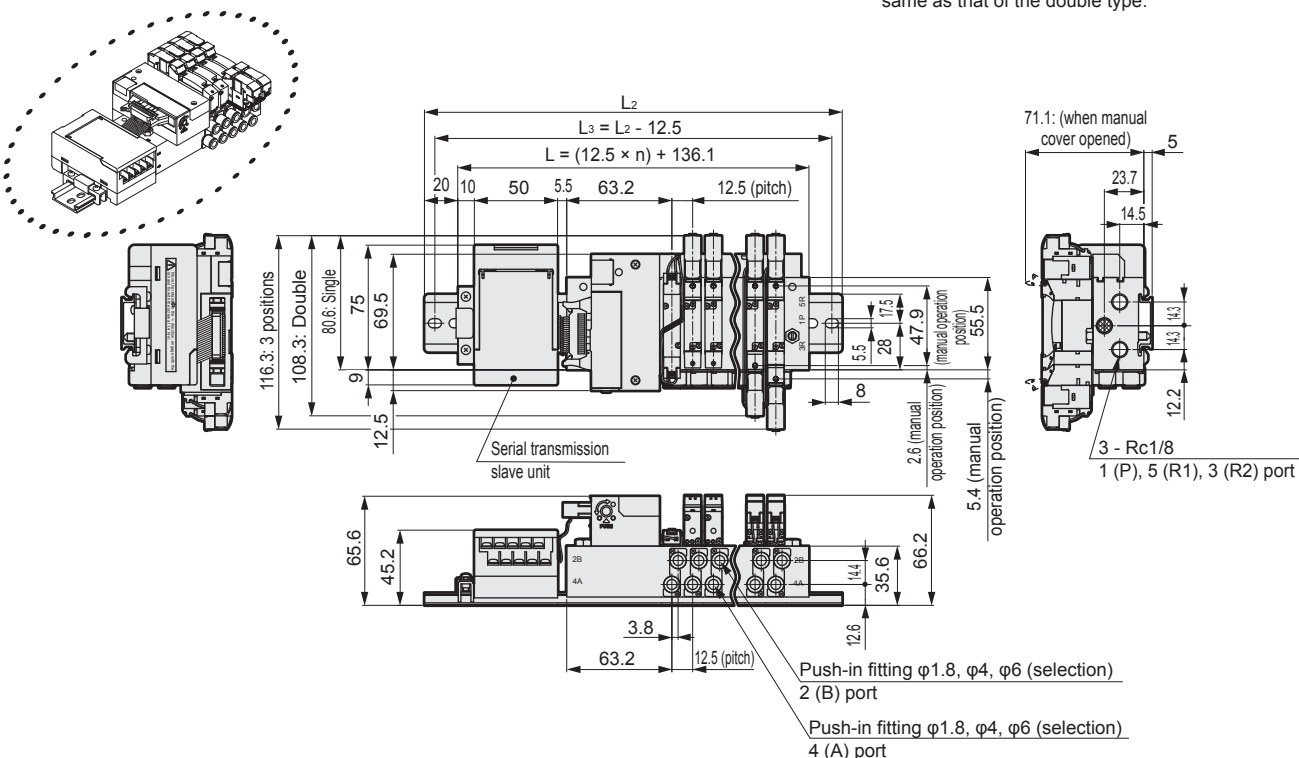
Dimensions



M4GB1

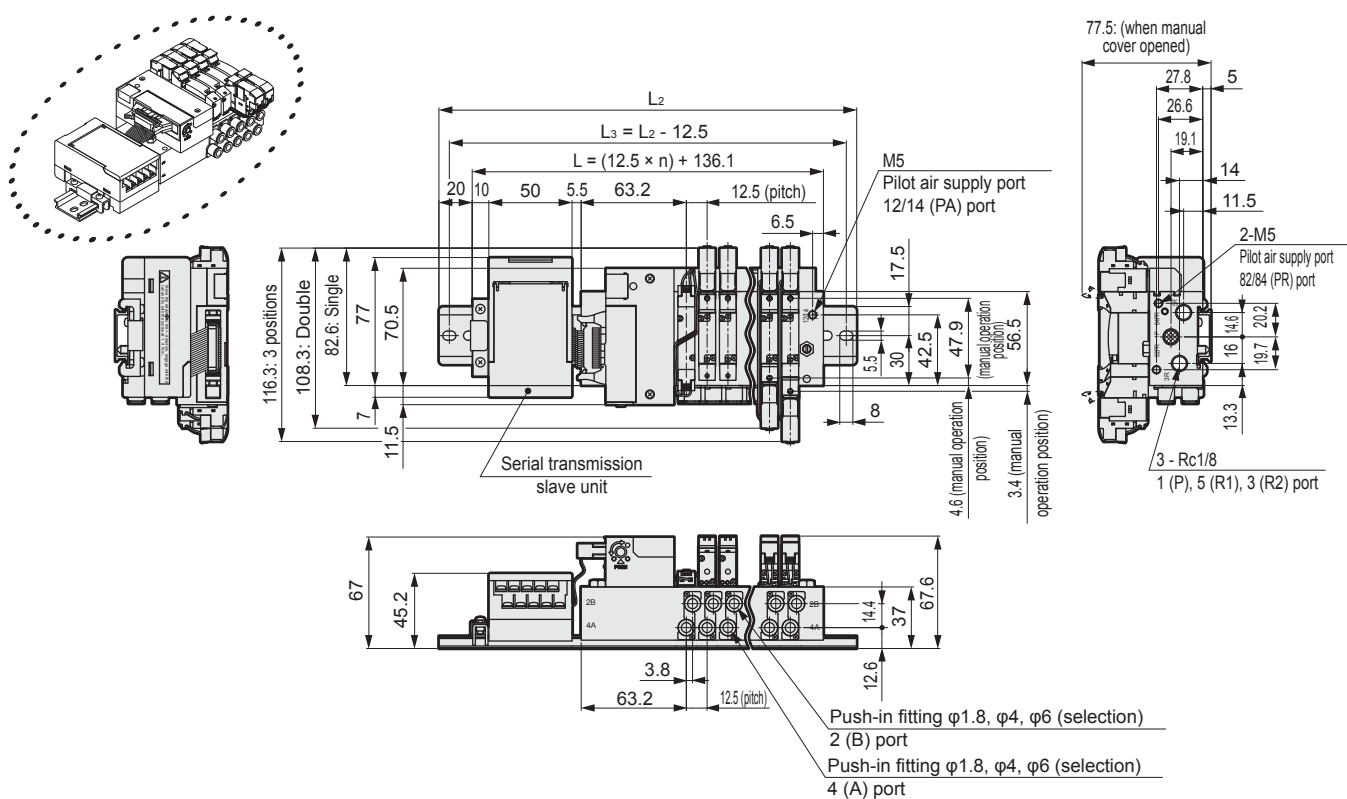
- Serial transmission (T6*)
DIN rail mounting type (D)

*The dimension of dual 3 port valve integrated type is the same as that of the double type.



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

Note: Refer to page 166 for details on the push-in fitting elbow type (upward) (downward).

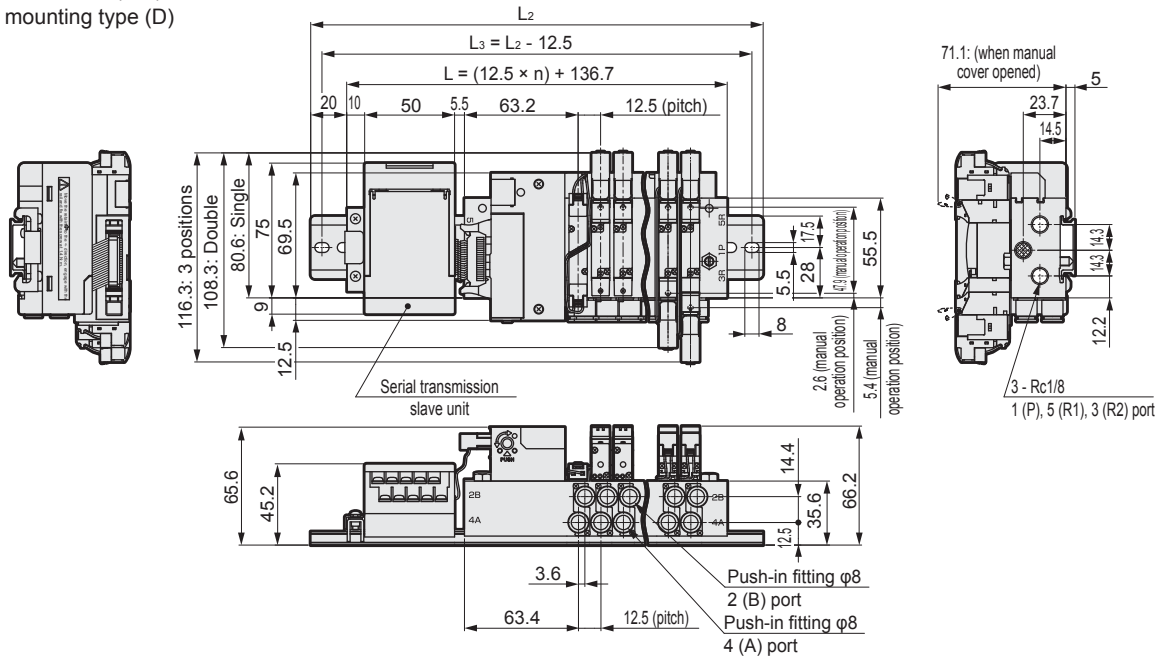


Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	161.1	173.6	186.1	198.6	211.1	223.6	236.1	248.6	261.1	273.6	286.1	298.6	311.1	323.6	336.1
L ₂	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5	350.0	362.5	375.0	387.5
L ₃	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0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

Dimensions

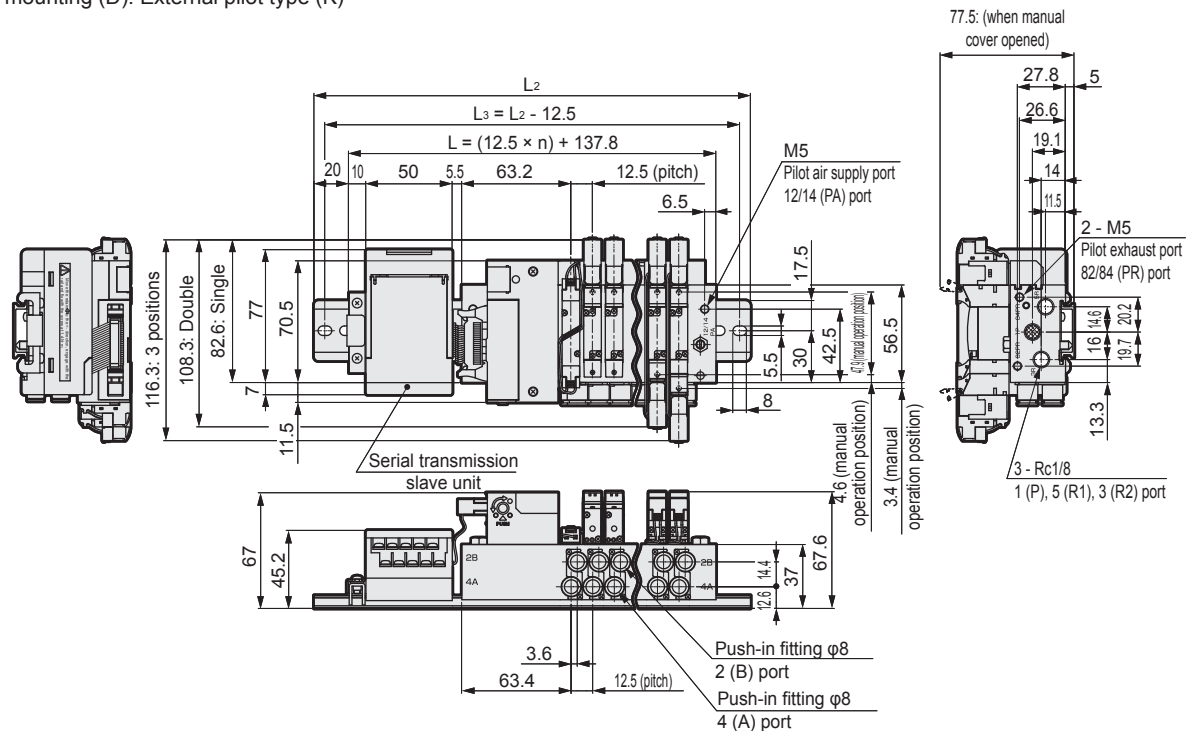
M4GB1-C8

- Serial transmission (T6*)
DIN rail mounting type (D)



Station 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 ₂	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 ₃	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 type (K)



Station 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 ₂	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0	337.5
L ₃	200.0	212.5	225.0	237.5	250.0	262.5	275.0	287.5	300.0	312.5	325.0

M4GB1-T8* Series

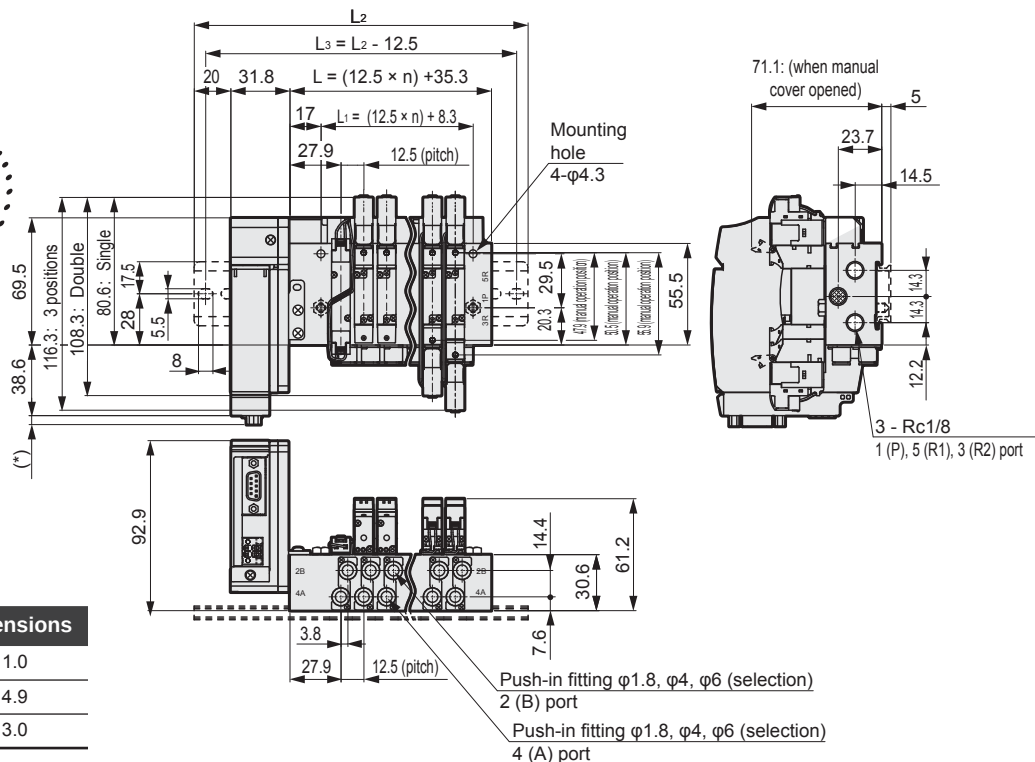
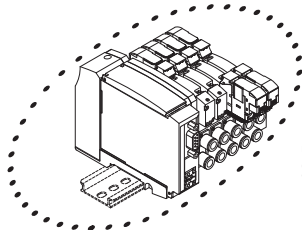
Reduced wiring manifold; base piping; serial transmission

Dimensions



M4GB1

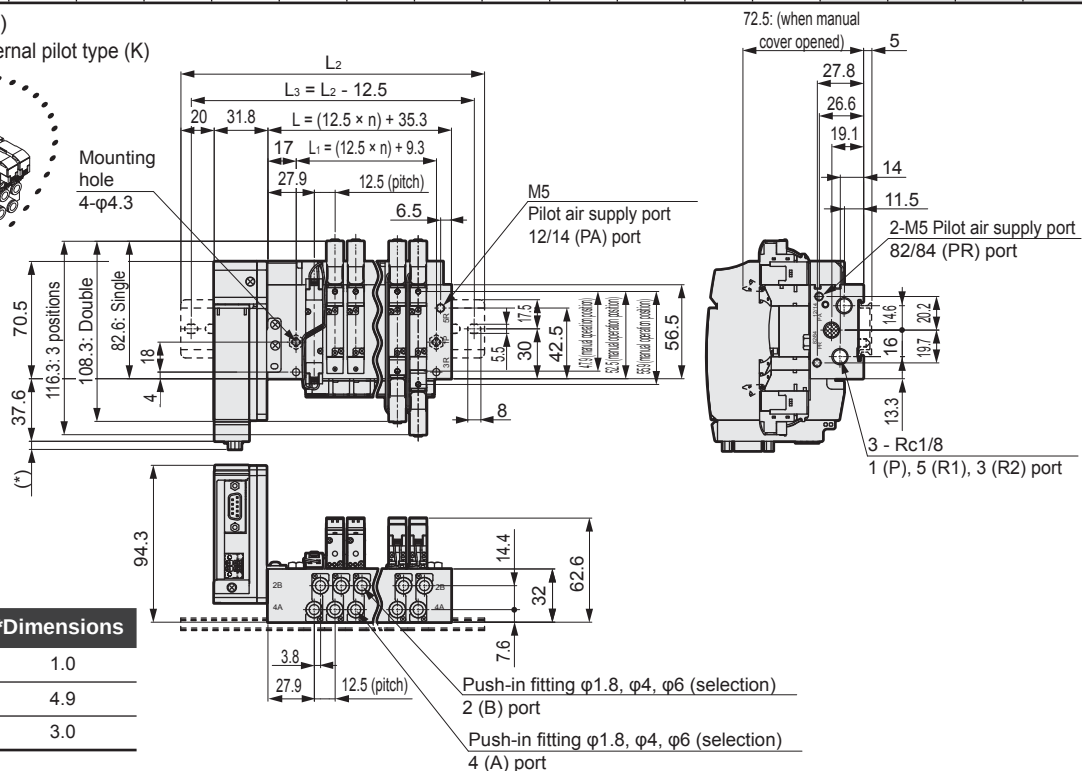
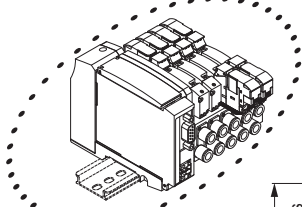
- Serial transmission (T8*)
- DIN rail mounting type (D)



Serial transmission	*Dimensions
T8G*	1.0
T8P*	4.9
T8E*	3.0

Station 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 ₁	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 ₂	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 ₃	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 type (K)



Serial transmission	*Dimensions
T8G*	1.0
T8P*	4.9
T8E*	3.0

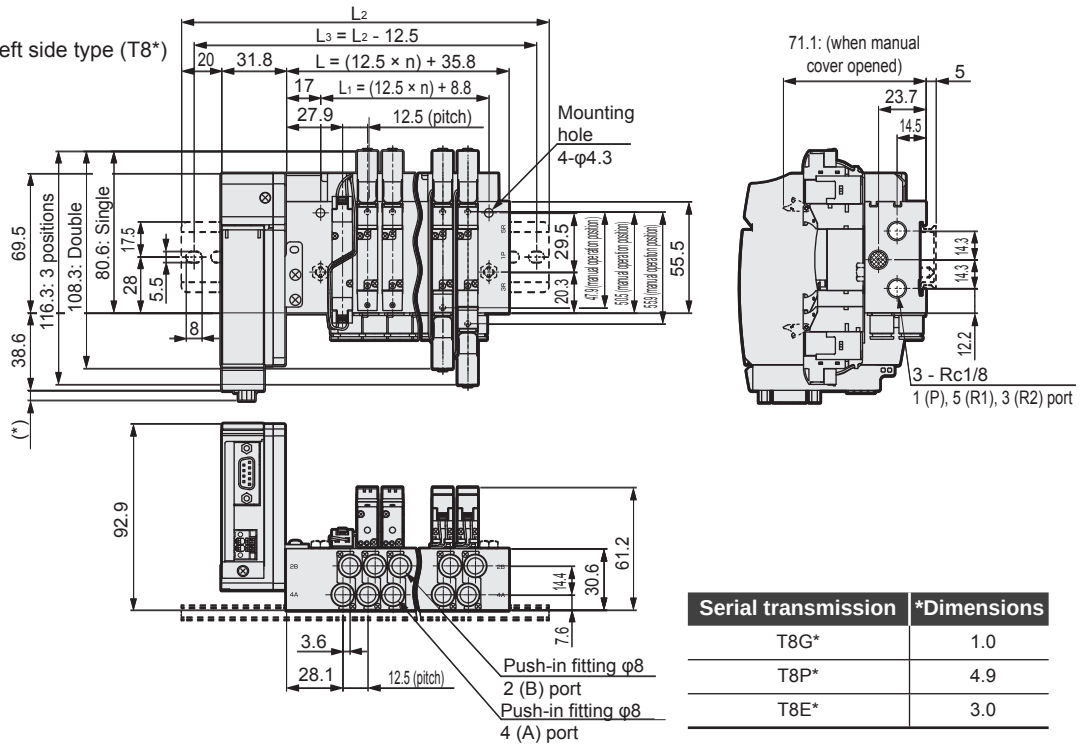
Station no.	2	3	4	5	6	7	8	9	10	11	12
L	60.3	72.8	85.3	97.8	110.3	122.8	135.3	147.8	160.3	172.8	185.3
L ₁	34.3	46.8	59.3	71.8	84.3	96.8	109.3	121.8	134.3	146.8	159.3
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

Reduced wiring manifold; base piping; serial transmission

Dimensions

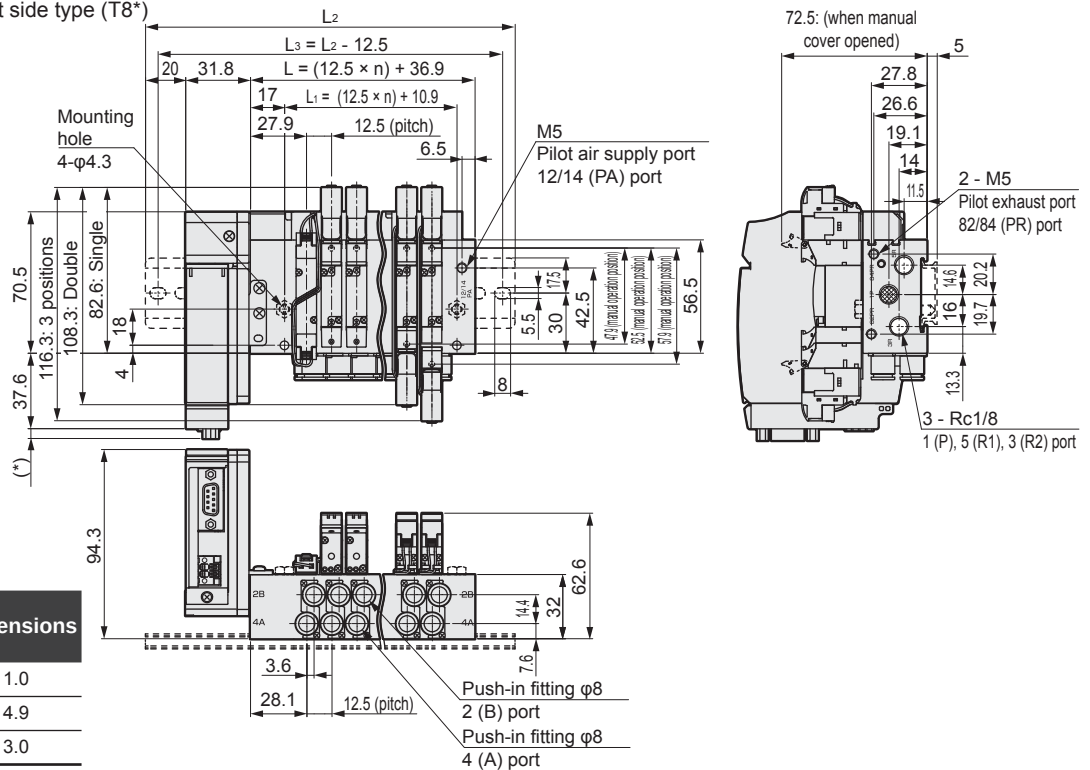
M4GB1-C8

- Reduced wiring Left side type (T8*)



Station 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 ₁	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 ₂	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 ₃	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 type (T8*)
External pilot (K)



Serial transmission	*Dimensions
T8G*	1.0
T8P*	4.9
T8E*	3.0

Station 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 ₁	35.9	48.4	60.9	73.4	85.9	98.4	110.9	123.4	135.9	148.4	160.9
L ₂	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0	262.5
L ₃	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	250.0

M4GB1-T* Series

Reduced wiring manifold; base piping

Dimensions

M4GB1

● Fitting straight

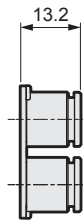
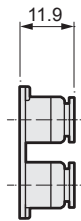
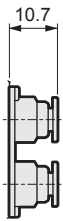
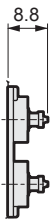
● $\phi 1.8$ (CF)

● $\phi 1.8$ (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)

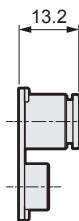
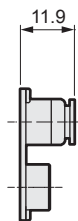
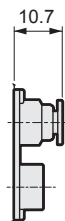
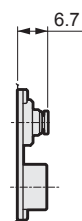
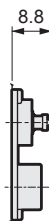
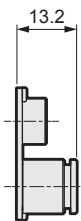
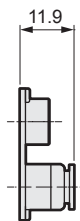
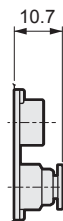
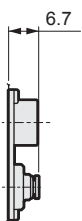
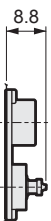
● $\phi 1.8$ (CFNO)

● $\phi 1.8$ (C18NO)

● $\phi 4$ (C4NO)

● $\phi 6$ (C6NO)

● $\phi 8$ (C8NO)



● Fitting L type (upward)

● $\phi 1.8$ (CL18)

● $\phi 4$ (CL4)

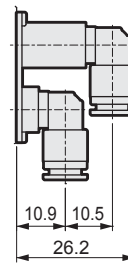
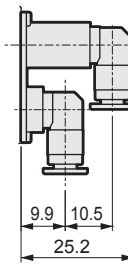
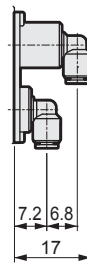
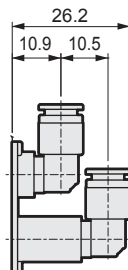
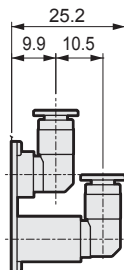
● $\phi 6$ (CL6)

● Fitting L type (downward)

● $\phi 1.8$ (CD18)

● $\phi 4$ (CD4)

● $\phi 6$ (CD6)



● Fitting L type (upward), single plug

● $\phi 1.8$ (CL18NC)

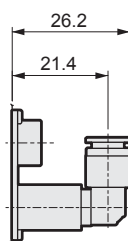
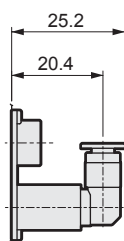
● $\phi 4$ (CL4NC)

● $\phi 6$ (CL6NC)

● $\phi 1.8$ (CL18NO)

● $\phi 4$ (CL4NO)

● $\phi 6$ (CL6NO)



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

● $\phi 1.8$ (CD18NC)

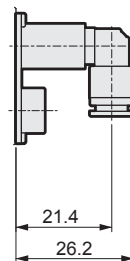
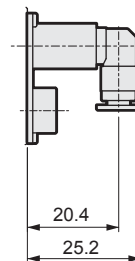
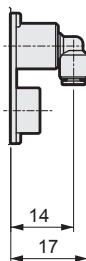
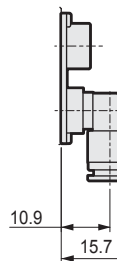
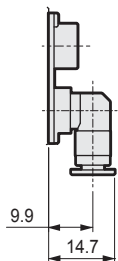
● $\phi 4$ (CD4NC)

● $\phi 6$ (CD6NC)

● $\phi 1.8$ (CD18NO)

● $\phi 4$ (CD4NO)

● $\phi 6$ (CD6NO)

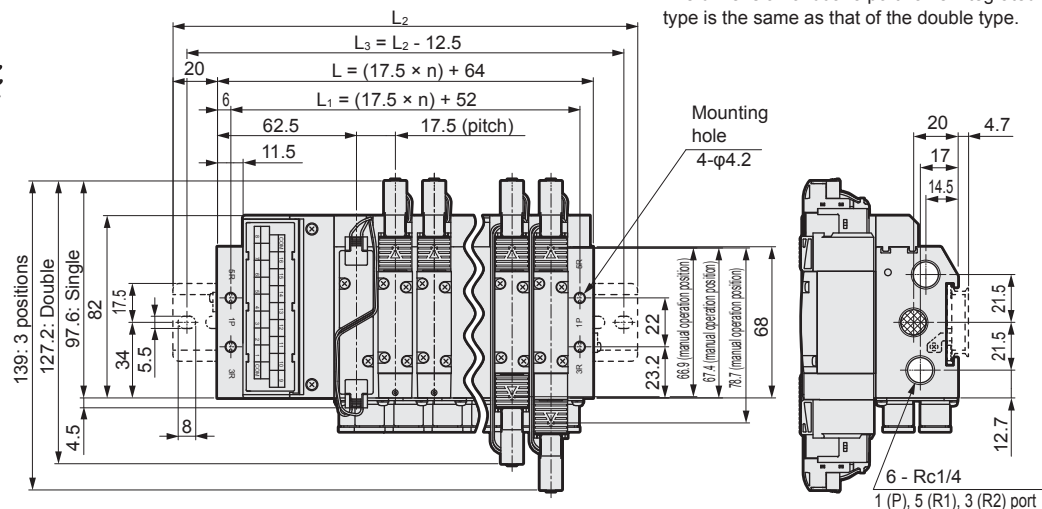
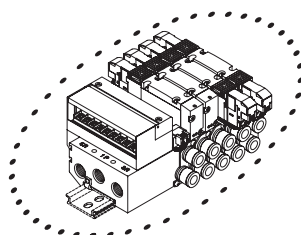


Dimensions



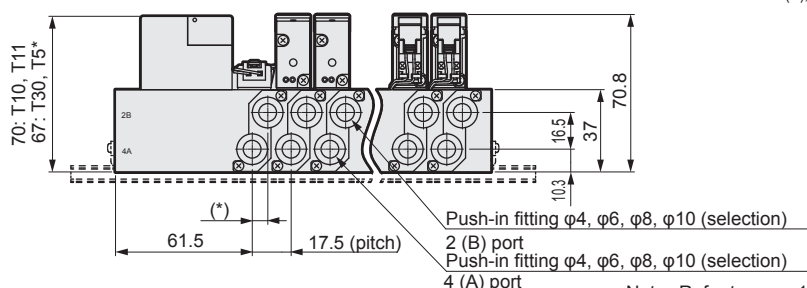
M4GB2

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

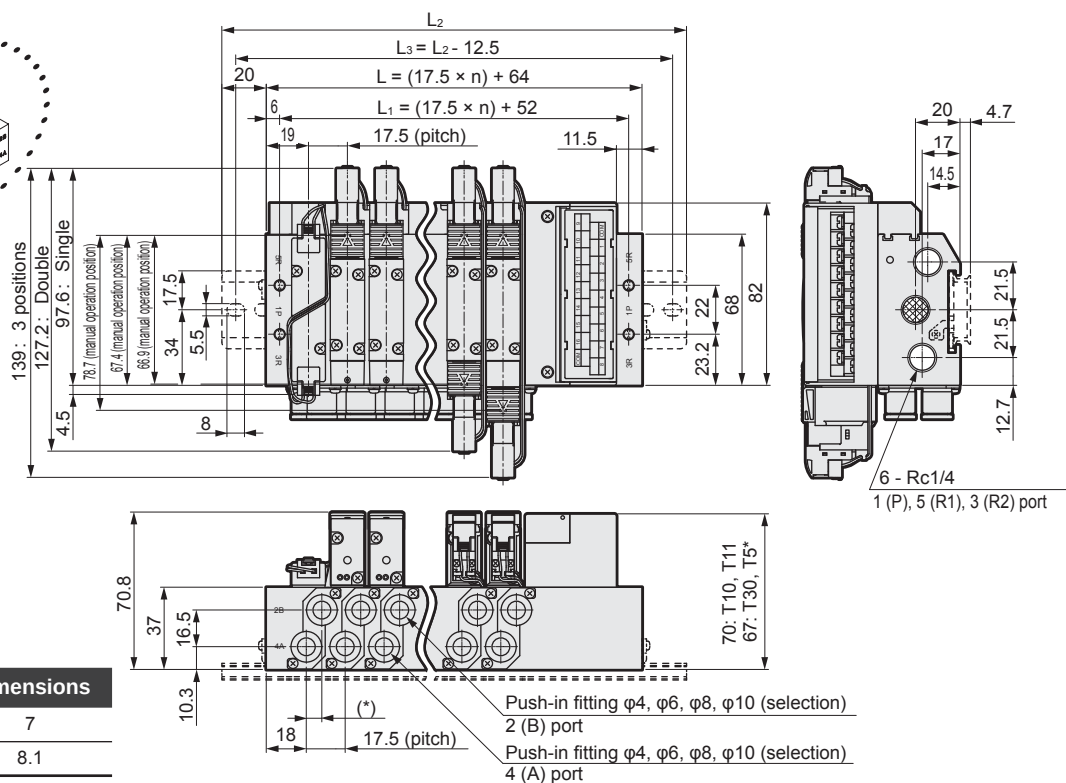
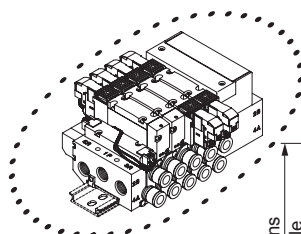


*1 This drawing shows T10. Refer to page 177 for detailed dimensions of the electrical block.
*2 The dimension of dual 3 port valve integrated type is the same as that of the double type.

A/B Port size	*Dimensions
φ4, φ6, φ8	7
φ10	8.1

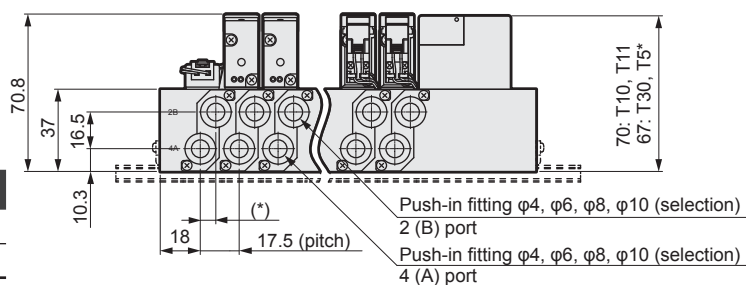


● Reduced wiring Right side type (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



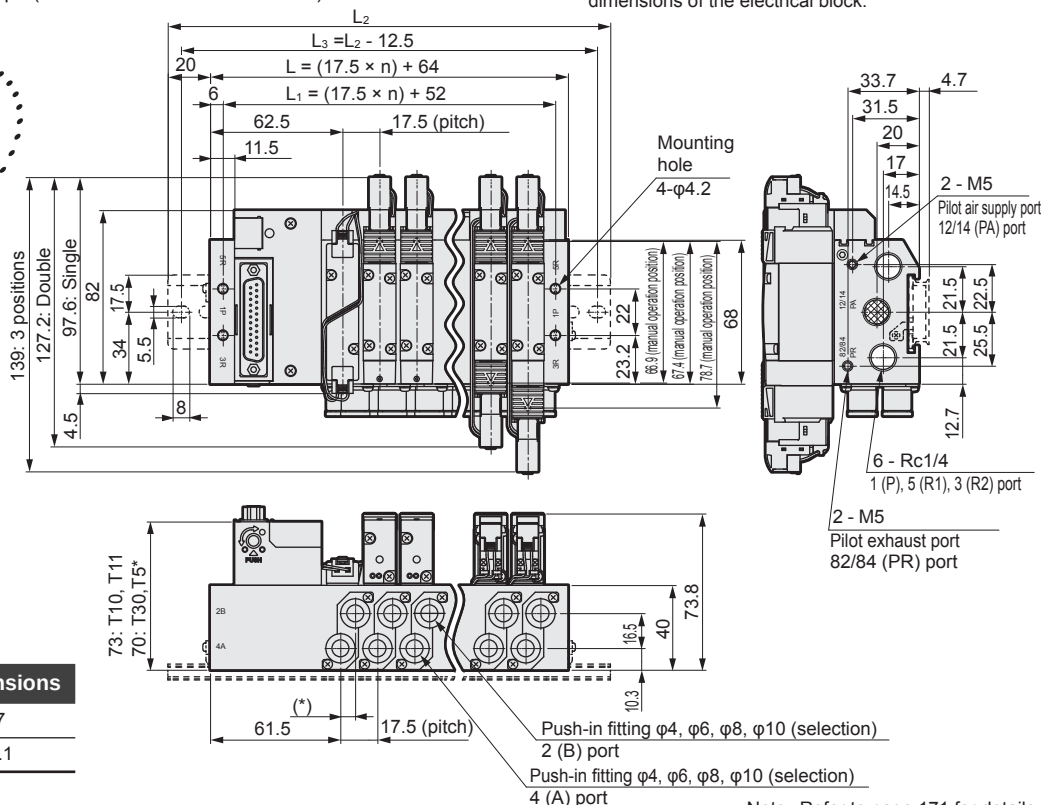
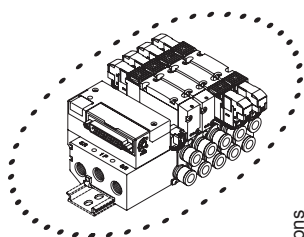
Note: Refer to page 171 for details on the push-in fitting elbow type (upward) (downward).

A/B Port size	*Dimensions
φ4, φ6, φ8	7
φ10	8.1



Station 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 ₁	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 ₂	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 ₃	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				

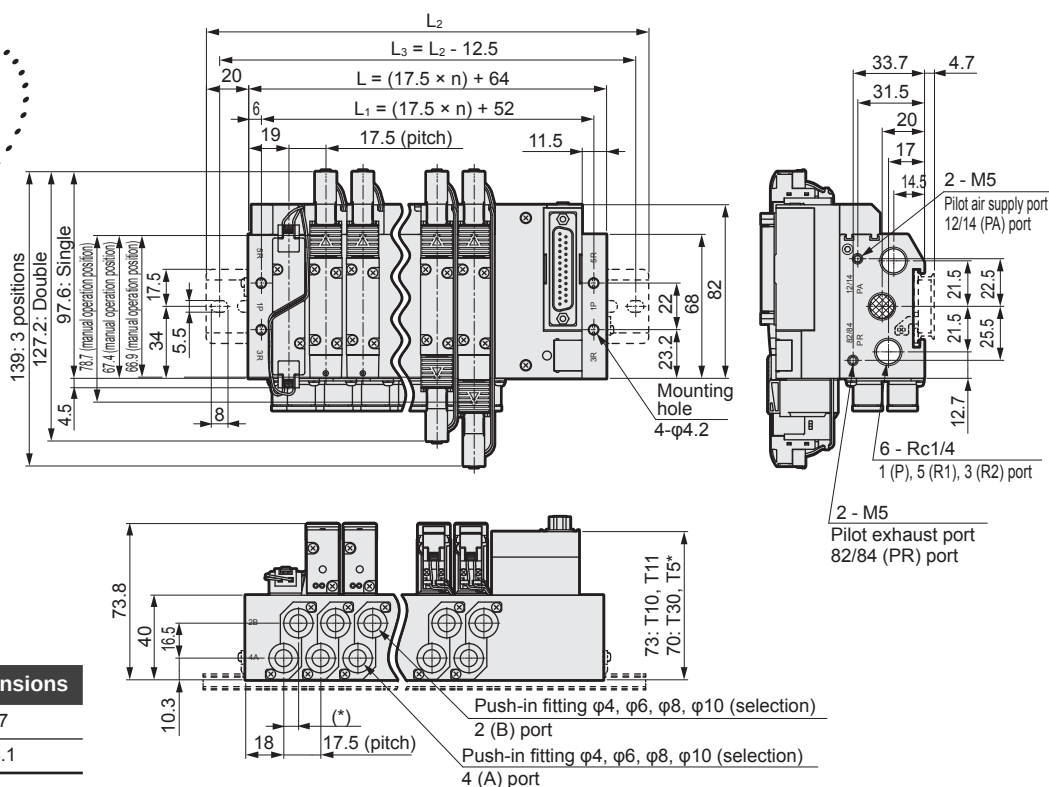
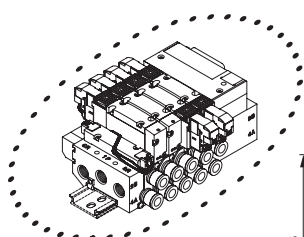
External pilot (K)



* This drawing shows T30. Refer to page 177 for detailed dimensions of the electrical block.

A/B Port size	*Dimensions
φ4, φ6, φ8	7
φ10	8.1

- External pilot (K)



Note: Refer to page 171 for details on the push-in fitting elbow type (upward) (downward).

A/B Port size	*Dimensions
φ4, φ6, φ8	7
φ10	8.1

Station 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 ₁	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 ₂	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 ₃	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				

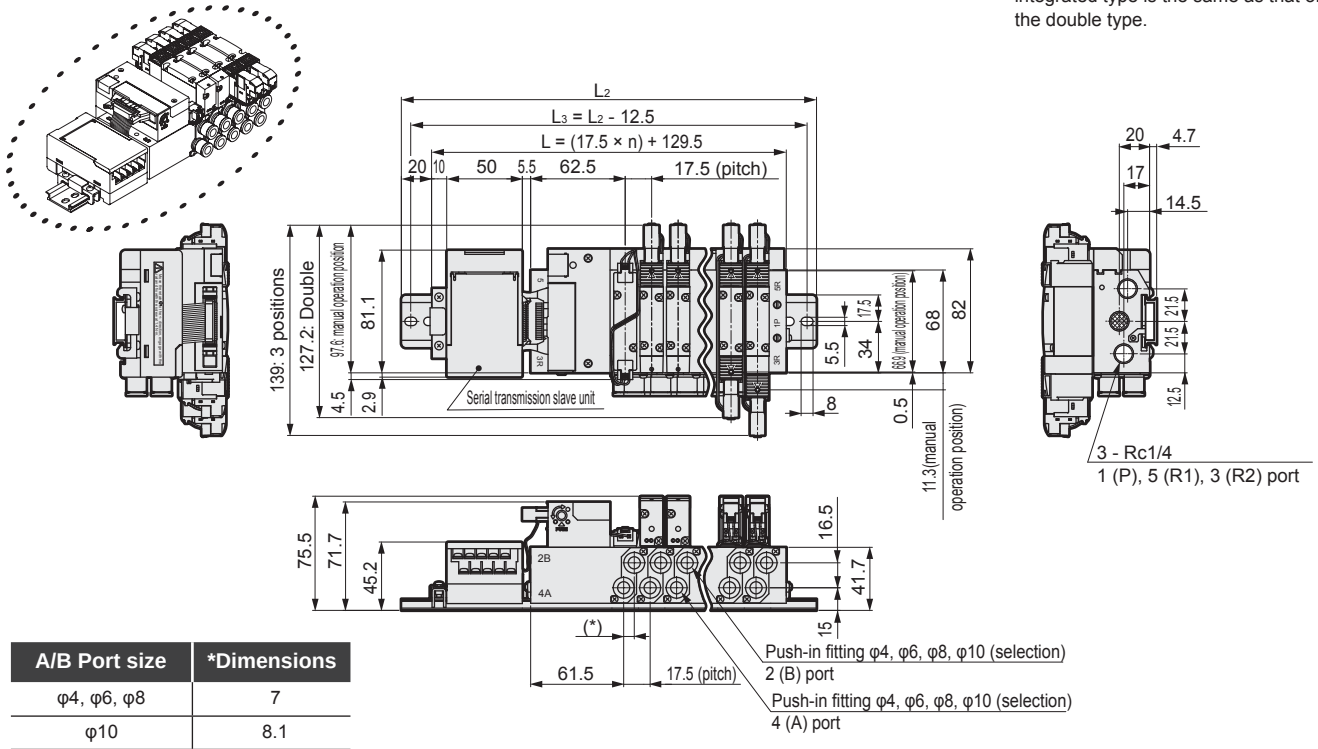
Dimensions



M4GB2

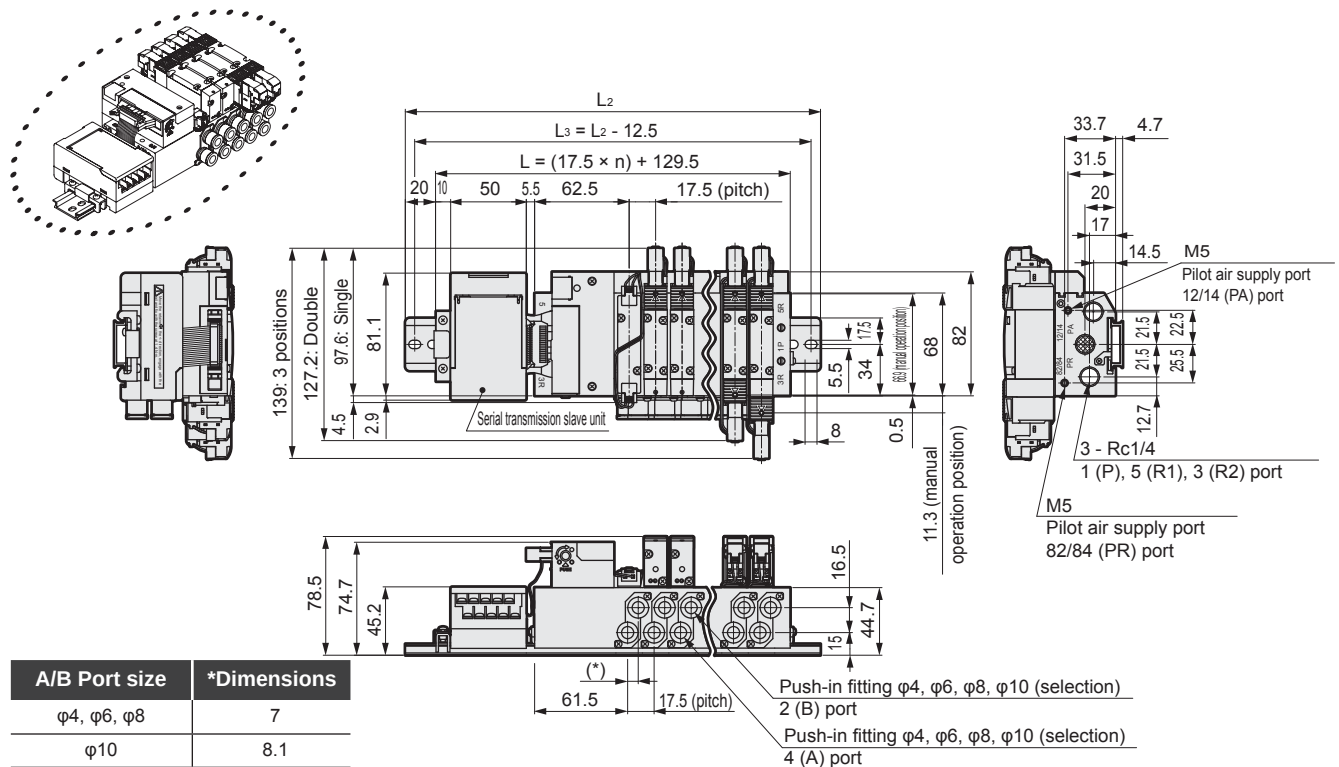
- Serial transmission (T6*)
DIN rail mounting type (D)

*The dimension of dual 3 port valve integrated type is the same as that of the double type.



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

Note: Refer to page 171 for details on the push-in fitting elbow type (upward) (downward).



Station 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 ₂	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 ₃	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

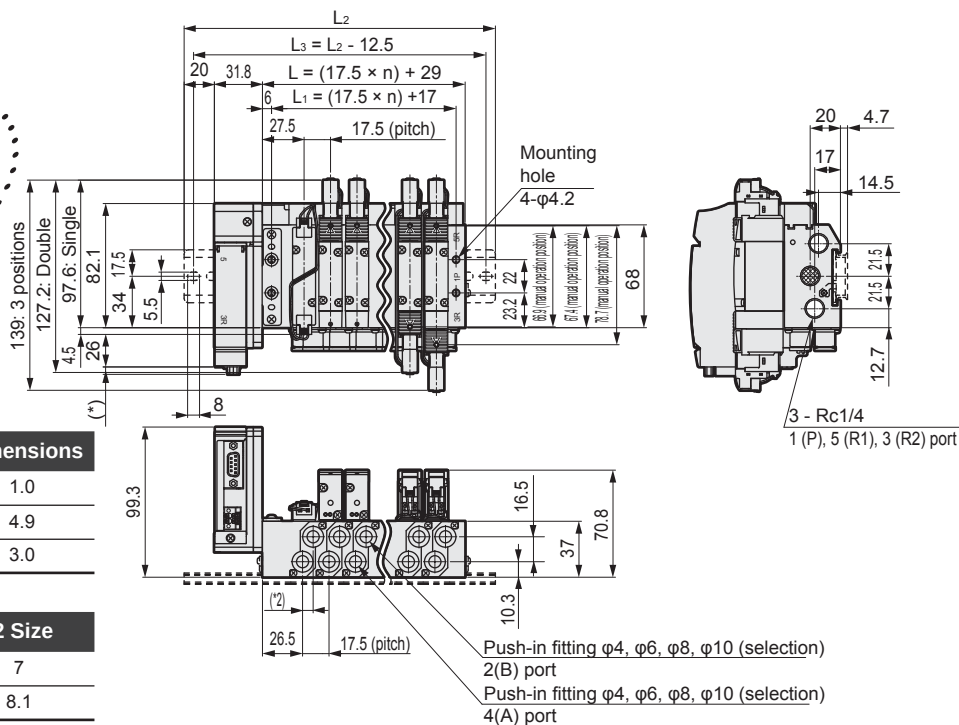
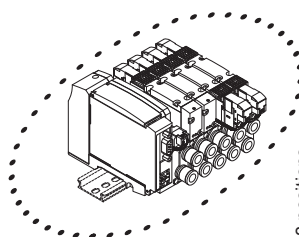
M4GB2-T8* Series

Reduced wiring manifold; base piping; serial transmission

Dimensions

M4GB2

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

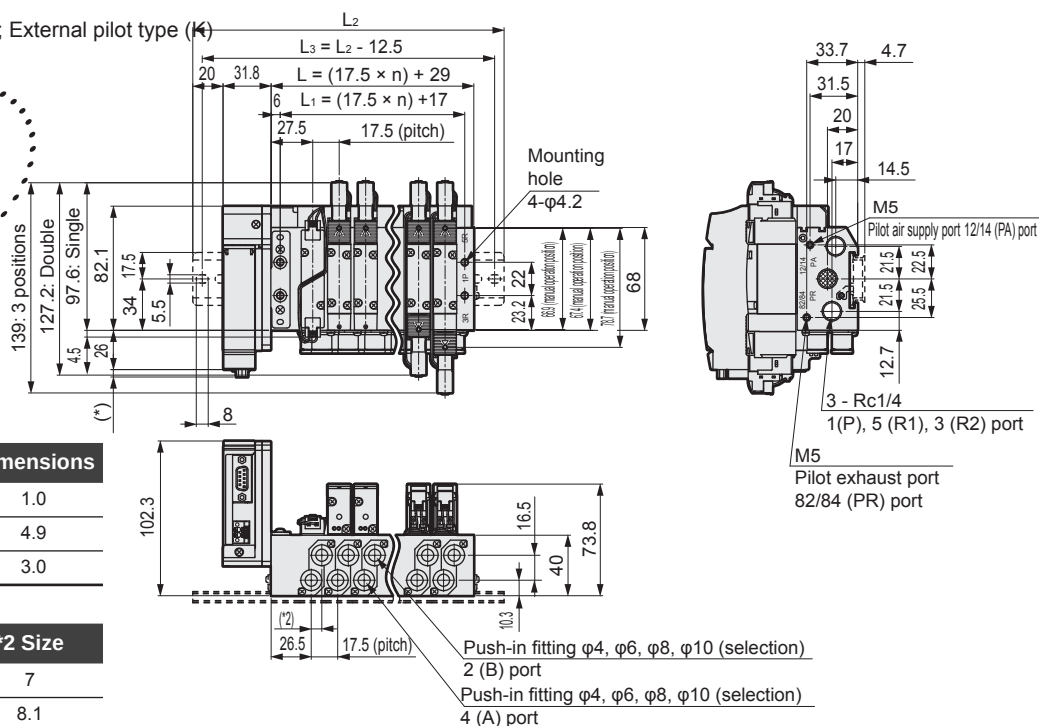
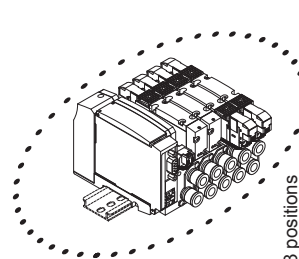


Serial transmission	*Dimensions
T8G*	1.0
T8P*	4.9
T8E*	3.0

A/B Port size	*2 Size
φ4, φ6, φ8	7
φ10	8.1

Station 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 ₁	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 ₂	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 ₃	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 type (D); External pilot type (K)



Serial transmission	*Dimensions
T8G*	1.0
T8P*	4.9
T8E*	3.0

A/B Port size	*2 Size
φ4, φ6, φ8	7
φ10	8.1

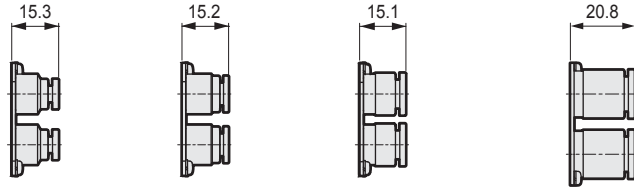
Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	64.0	81.5	99.0	116.5	134.0	151.5	169.0	186.5	204.0	221.5	239.0	256.5	274.0	291.5	309.0	326.5	344.0	361.5	379.0
L ₁	52.0	69.5	87.0	104.5	122.0	139.5	157.0	174.5	192.0	209.5	227.0	244.5	262.0	279.5	297.0	314.5	332.0	349.5	367.0
L ₂	137.5	162.5	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 ₃	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

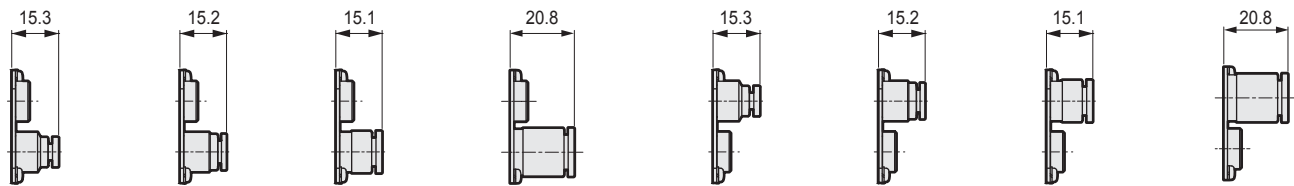
● Fitting straight

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



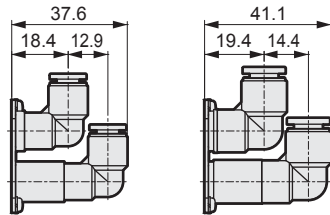
● Fitting straight, single plug

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



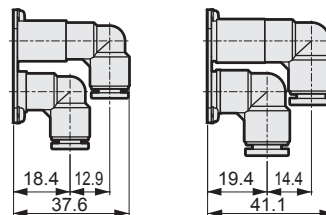
● Fitting L type (upward)

- $\phi 6$ (CL6) ● $\phi 8$ (CL8)



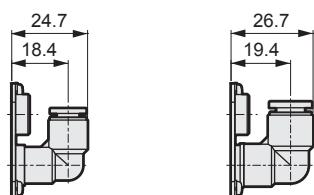
● Fitting L type (downward)

- $\phi 6$ (CD6) ● $\phi 8$ (CD8)



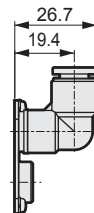
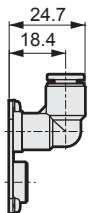
● Fitting L type (upward), single plug

- $\phi 6$ (CL6NC) ● $\phi 8$ (CL8NC)



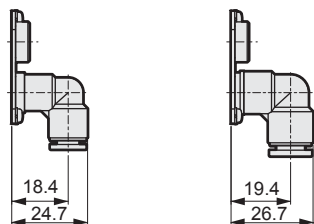
- $\phi 6$ (CL6NO)

- $\phi 8$ (CL8NO)



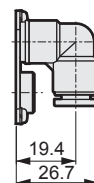
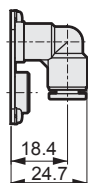
● Fitting L type (downward), single plug

- $\phi 6$ (CD6NC) ● $\phi 8$ (CD8NC)



- $\phi 6$ (CD6NO)

- $\phi 8$ (CD8NO)



4GA/B

M4GA/B

MN4GA/B

4GA/B
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GB3-T* Series

Reduced wiring manifold; base piping

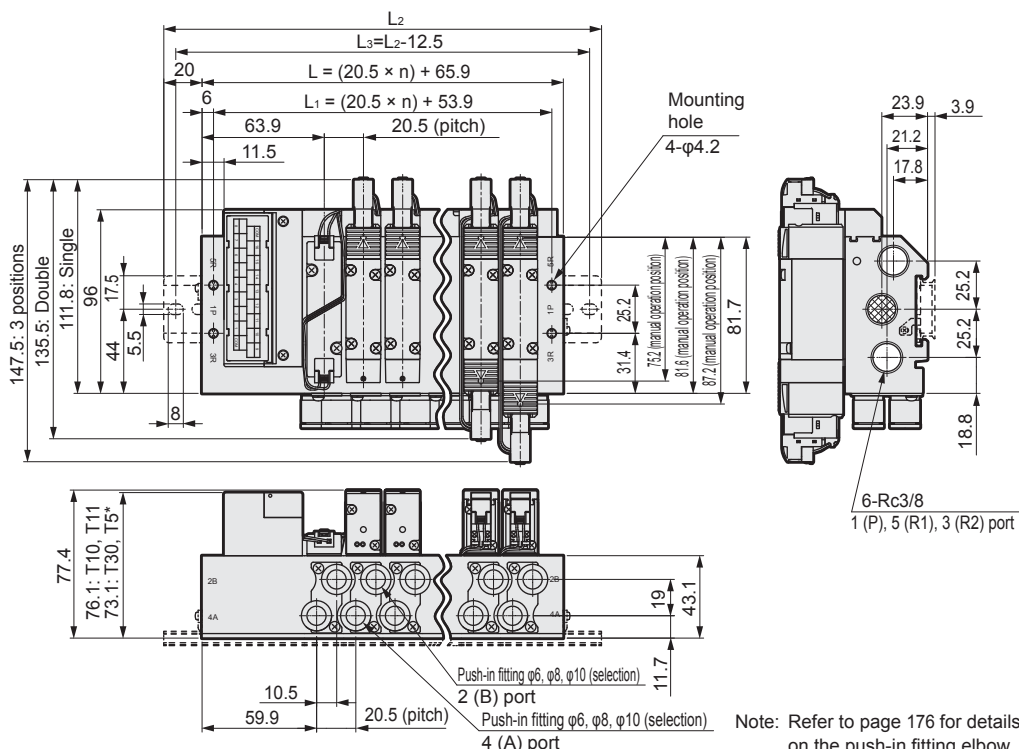
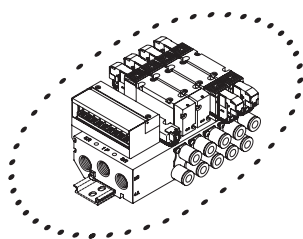
Dimensions



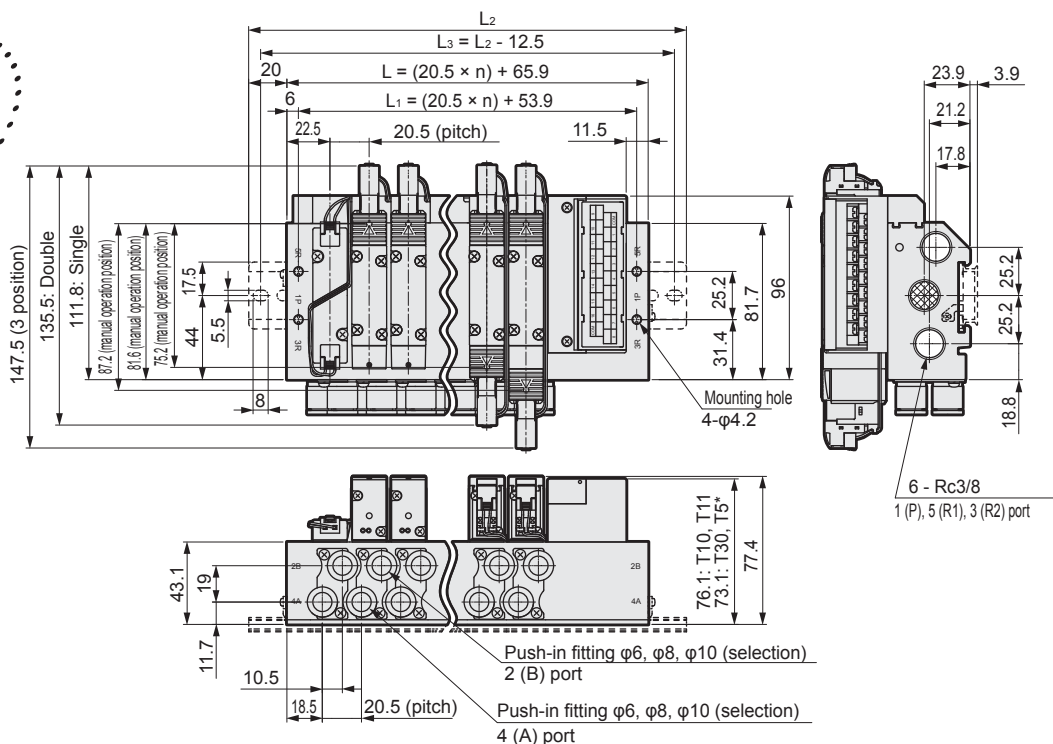
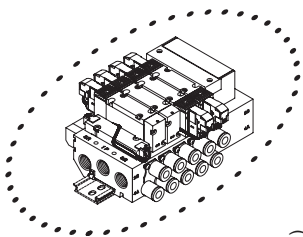
M4GB3

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

* This drawing shows T10. Refer to page 177 for detailed dimensions of the electrical block.



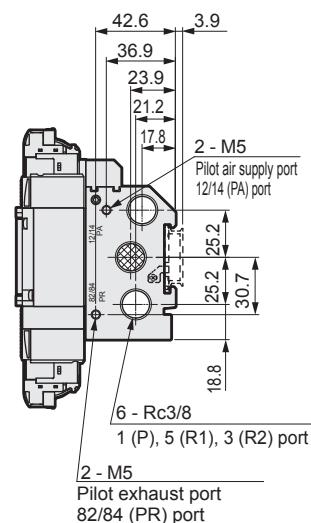
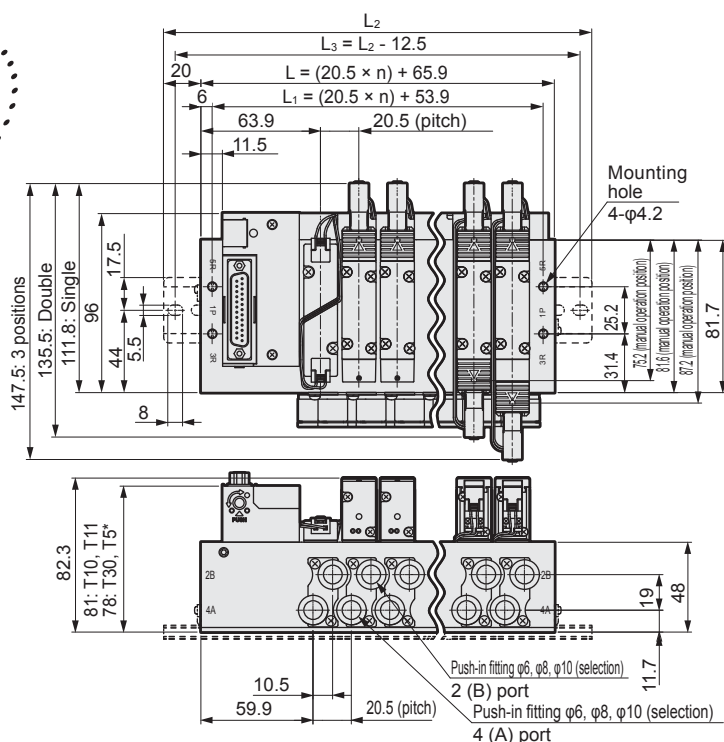
● Reduced wiring Right side type (T10R/T11R/T30R/T50R/T51R/T52R/T53R)



Station 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 ₁	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 ₂	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 ₃	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

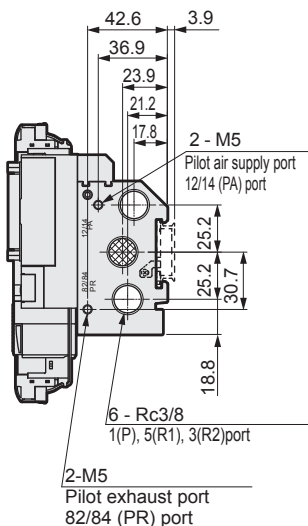
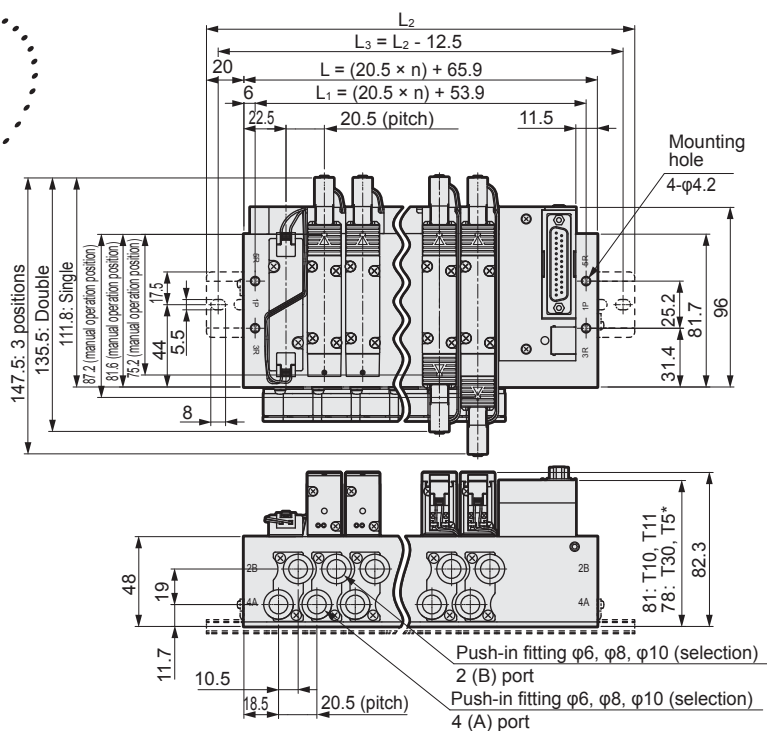
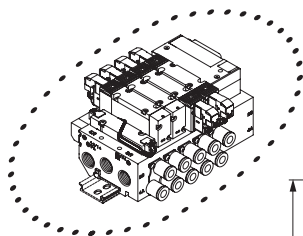
Reduced wiring manifold; base piping

● Reduced wiring Left side type (T10/T11/T30/T50/T51/T52/T53)
External pilot (K)



Note: Refer to page 176 for details on the push-in fitting elbow type (upward) (downward).

●Reduced wiring Right side type (T10R/T11R/T30R/T50R/T51R/T52R/T53R)
External pilot (K)

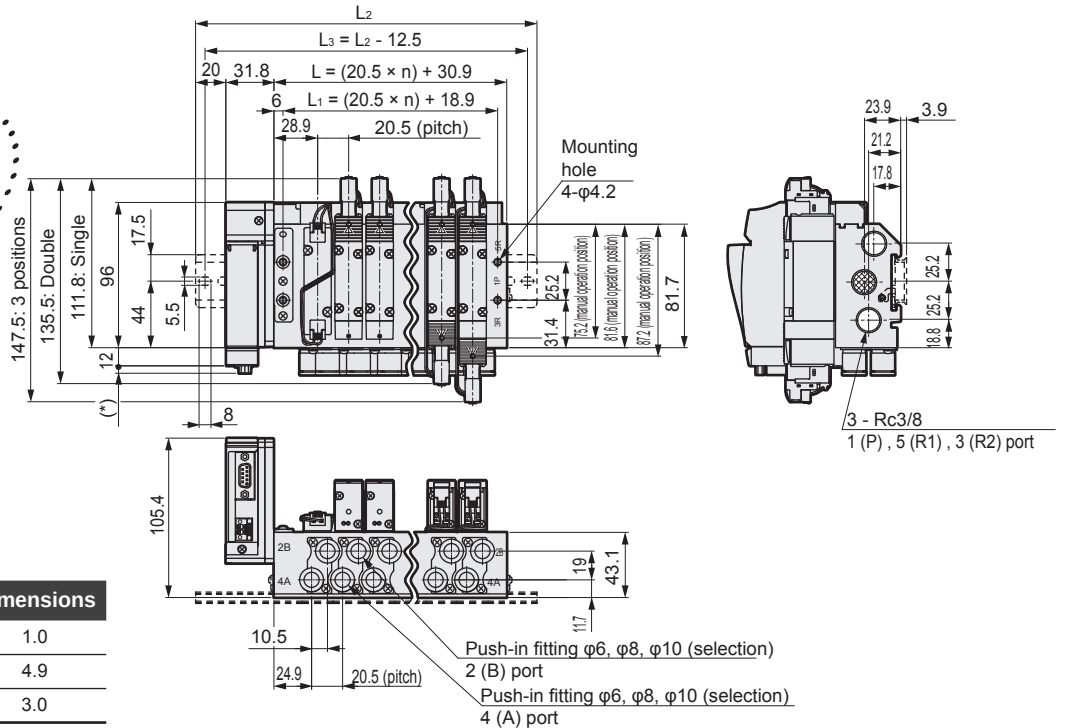
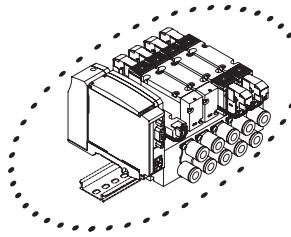


Station no.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	106.9	127.4	147.9	168.4	188.9	209.4	229.9	250.4	270.9	291.4	311.9	332.4	352.9	373.4	393.9
L ₁	94.9	115.4	135.9	156.4	176.9	197.4	217.9	238.4	258.9	279.4	299.9	320.4	340.9	361.4	381.9
L ₂	150.0	175.0	200.0	212.5	237.5	250.0	275.0	300.0	312.5	337.5	362.5	375.0	400.0	412.5	437.5
L ₃	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

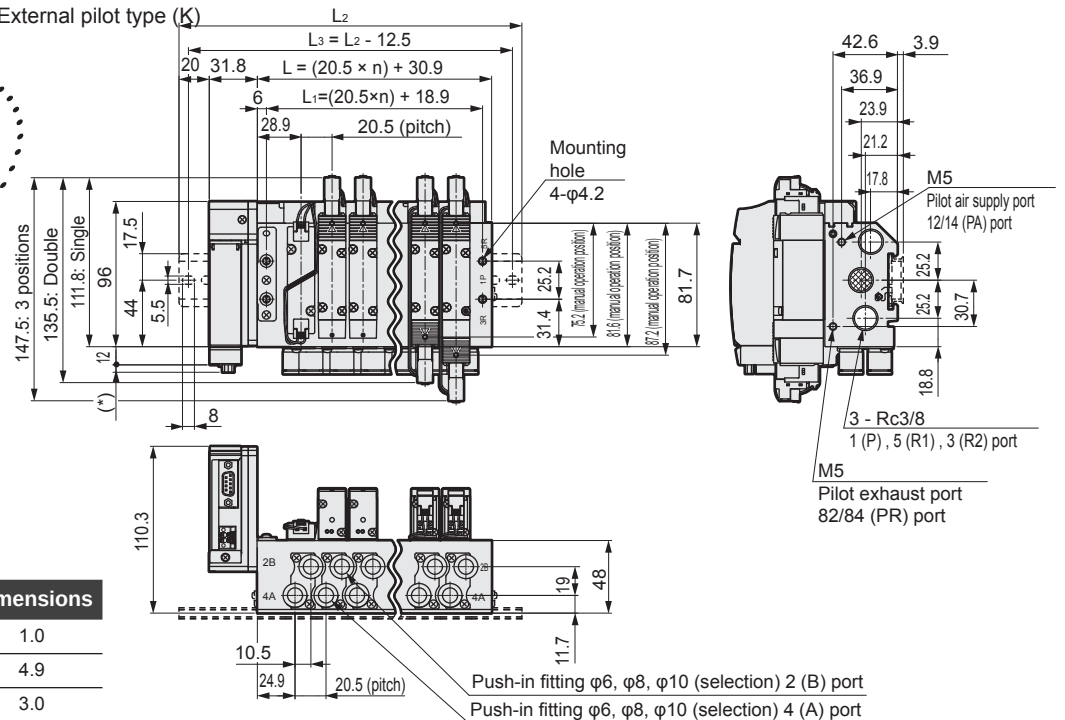
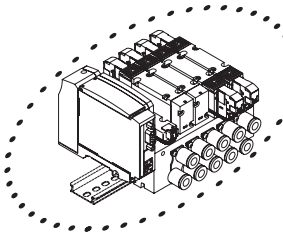
M4GB3

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



Station 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 ₁	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 ₂	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 ₃	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 type (D); External pilot type (K)



Station 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 ₁	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 ₂	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 ₃	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

M4GB3-T* Series

Reduced wiring manifold; base piping

Dimensions

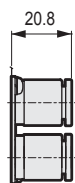
M4GB3

● Fitting straight

● $\phi 6$ (C6)

● $\phi 8$ (C8)

● $\phi 10$ (C10)



● Fitting straight, single plug

● $\phi 6$ (C6NC)

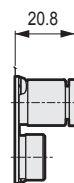
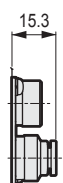
● $\phi 8$ (C8NC)

● $\phi 10$ (C10NC)

● $\phi 6$ (C6NO)

● $\phi 8$ (C8NO)

● $\phi 10$ (C10NO)



● Fitting L type (upward)

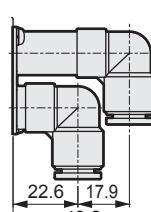
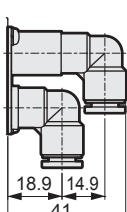
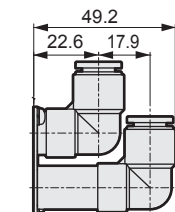
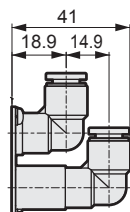
● $\phi 8$ (CL8)

● $\phi 10$ (CL10)

● Fitting L type (downward)

● $\phi 8$ (CD8)

● $\phi 10$ (CD10)



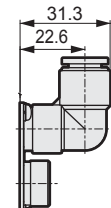
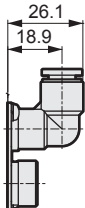
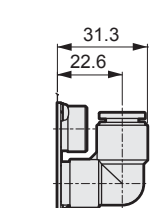
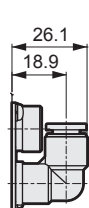
● Fitting L type (upward), single plug

● $\phi 8$ (CL8NC)

● $\phi 10$ (CL10NC)

● $\phi 8$ (CL8NO)

● $\phi 10$ (CL10NO)



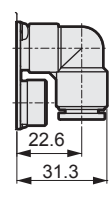
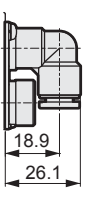
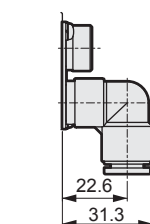
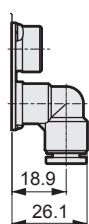
● Fitting L type (downward), single plug

● $\phi 8$ (CD8NC)

● $\phi 10$ (CD10NC)

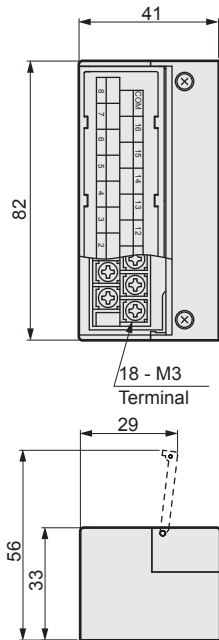
● $\phi 8$ (CD8NO)

● $\phi 10$ (CD10NO)

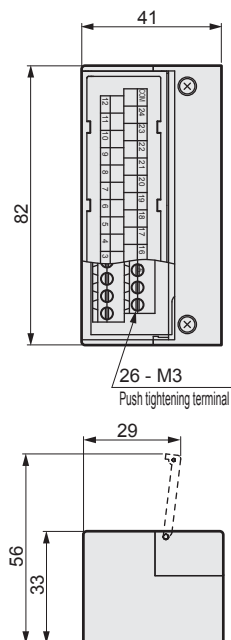


Electrical block part: dimensions

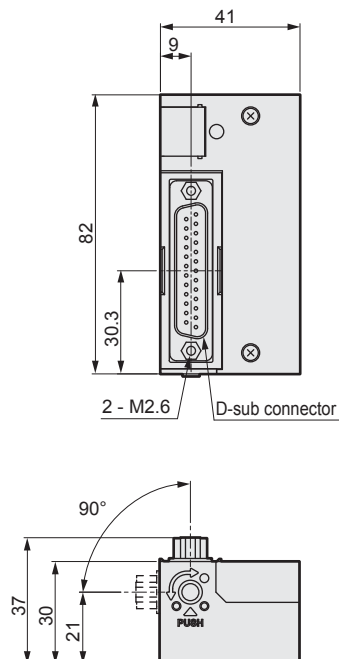
● Common terminal block
(M3 thread) T10



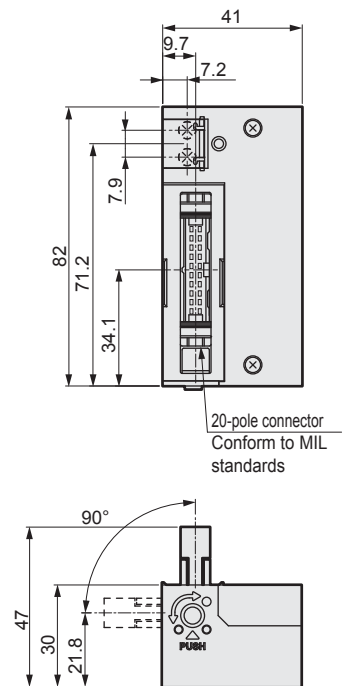
● Common terminal block
(push tightening) T11



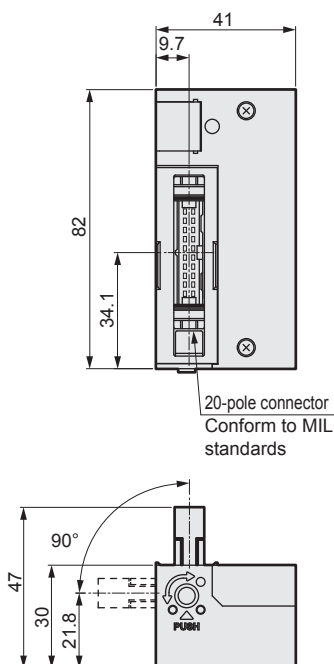
● D-sub connector T30



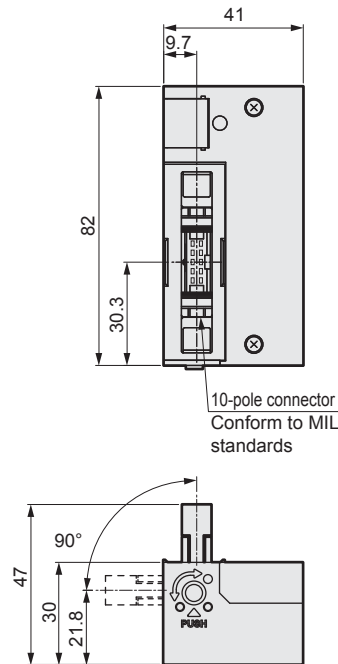
● 20 pin flat cable connector
(with power supply terminal) T50



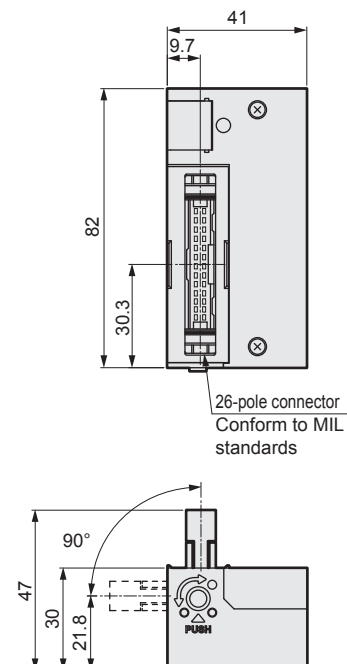
● 20 pin flat cable connector
(without power supply terminal) T51



● 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
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GB1, 2, 3-T6D Series

Reduced wiring manifold; base piping; serial transmission

● Discrete serial transmission slave unit

4GR - OPP3 - 0A

A Wiring method

Symbol	Descriptions			
A Wiring method				
0A	T6A0	UNIWIRED SYSTEM	NPN	8 points
1A	T6A1			16 points
0C	T6C0	CompoBus/S		8 points
1C	T6C1			16 points
0E	T6E0	S-LINK		8 points
1E	T6E1			16 points
1G	T6G1	CC-Link		16 points
0J	T6J0	UNIWIRED H SYSTEM		8 points
1J	T6J1			16 points

● Discrete serial transmission slave unit

4GR - OPP7 - 2G

A Wiring method

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

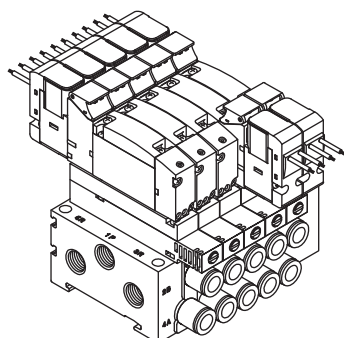
4GA/B	M4GA/B	MN4GA/B	4GA/B Master valve	4GD/E	M4GD/E	MN4GD/E	Technical data	Safety precautions	Manifold Specifications
-------	--------	---------	-----------------------	-------	--------	---------	----------------	-----------------------	----------------------------

M4GA1 to 3/M4GB1 to 3 Series

Related products

Related products

● In stop valve spacer



Specifications

Model no.	P→A/B		A/B→R		Weight g
	C (dm ³ /(s/bar))	b	C (dm ³ /(s/bar))	b	
4G*1	0.54	0.03	0.82	0.27	17
4G*2	1.5	0.17	1.6	0.20	63
4G*3	1.9	0.09	2.8	0.16	80

Note 1: These are values when base piping and 2-position valve are mounted.

Note 2: The effective cross-sectional area when discharging residual pressure is 1.0 mm² (reference value).

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

Attached product: PR check valve 2, body gasket 1 (4G*2, 4G*3)

How to order discrete part

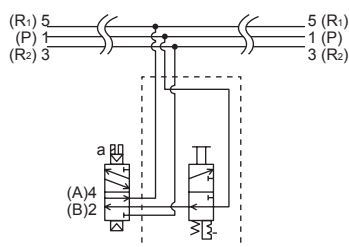
4G1R - IS

4G2R - IS

4G3R - IS

In stop valve spacer

JIS symbol



⚠ Note on model no. selection

Note 1: Specify the spacer mounting position and quantity in manifold specifications.

Note 2: If the A/B port fitting is the elbow type (upward), turn the operation part of the in stop valve spacer toward the reverse side (a solenoid side).

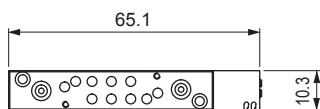
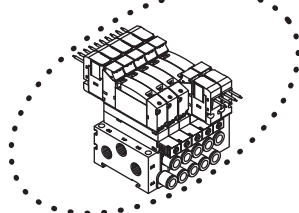
Note 3: If the elbow type (upward) A/B port fitting is used for the reduced wiring manifold, the in stop valve spacer cannot be selected.

Note 4: The in stop valve spacer cannot be used with the external pilot (K).

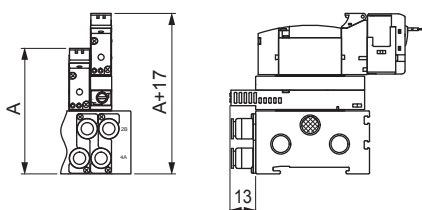
Note 5: When adding to the reduced wiring manifold, the existing electric wire may be too short. Contact CKD for details.

Dimensions

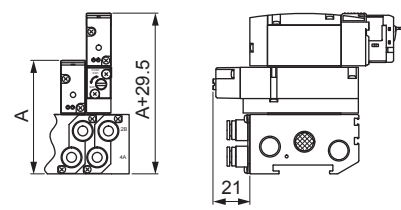
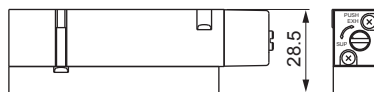
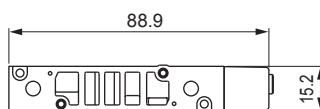
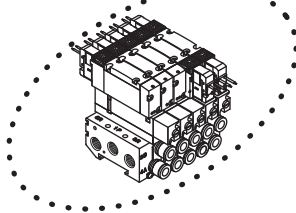
● 4G1



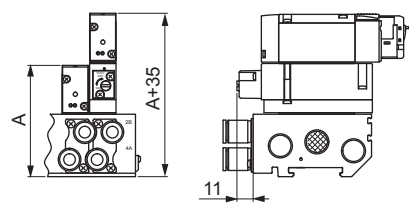
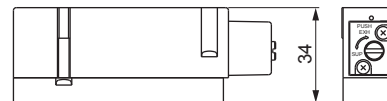
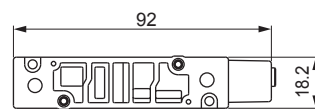
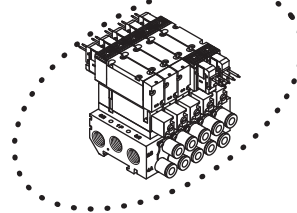
Dimensions when mounted



● 4G2



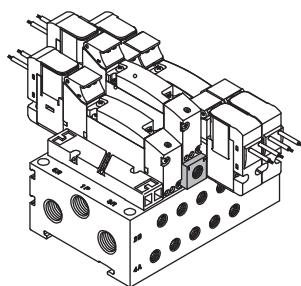
● 4G3



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 ³ /(s/bar))	b	C (dm ³ /(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

Note 1: These are values when a valve is mounted.

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

How to order discrete part

● Air supply spacer

Air supply spacer model no.

4G 3 R - P - GWS10 A

A Air supply spacer model no.

B Port size
Note 1

C Set screw

		Valve model no.					
		4GA1	4GB1	4GA2	4GB2	4GA3	4GB3
Symbol	Descriptions						
A Air supply spacer model no.							
1	For 4G1	●					
2	For 4G2			●			
3	For 4G3					●	
B Port size							
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			●			
C Set screw							
Blank		●	●			●	
A	4GA3 A/B port: Rc1/4 thread					●	Note 2

is not available.

Accessories: 2 installation screws (Note 2), 2 PR check valves, 1 body gasket

⚠ Note on model no. selection

Note 1 Blank indicates ① M5 ② Rc1/8 ③ Rc1/4.

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

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

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

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

Note 6 Combination with the masking plate is not supported.

M4GA1 to 3/M4GB1 to 3 Series

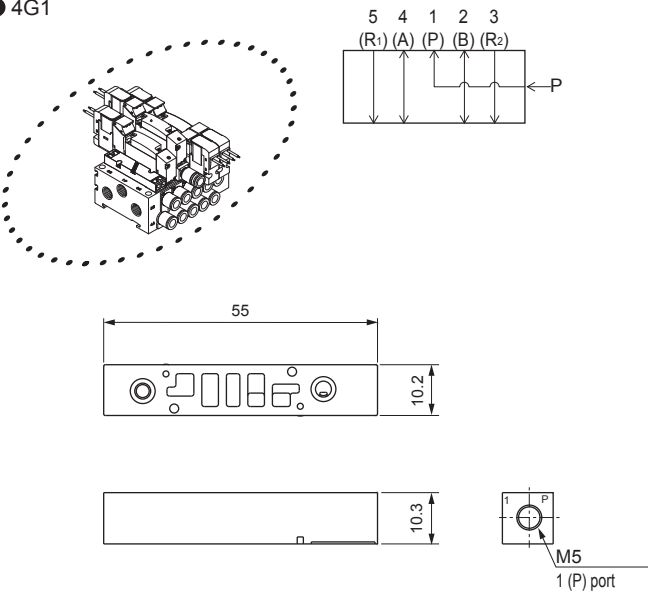
Related products

Related products

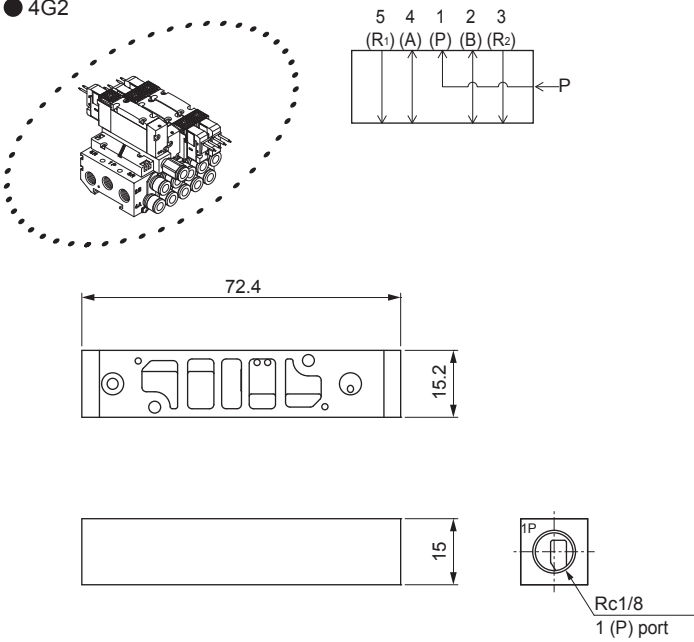
● Air supply spacer

Dimensions

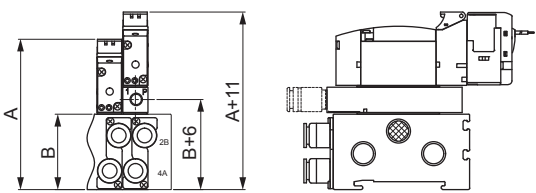
● 4G1



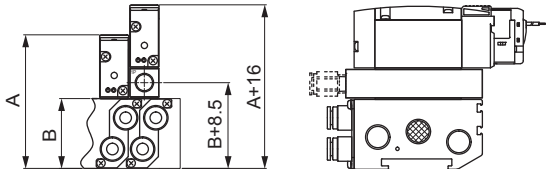
● 4G2



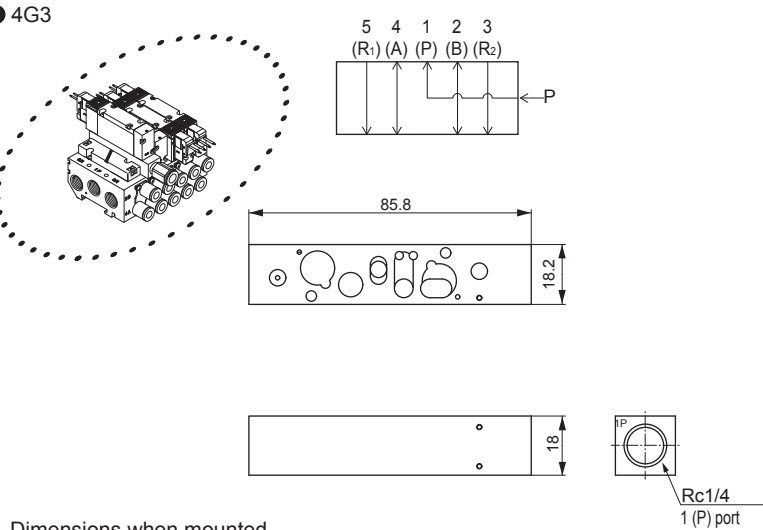
Dimensions when mounted



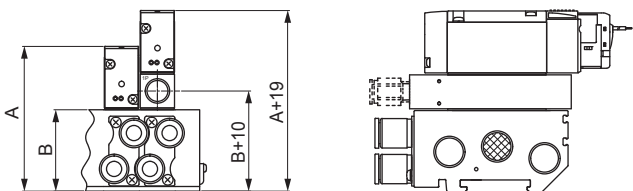
Dimensions when mounted



● 4G3



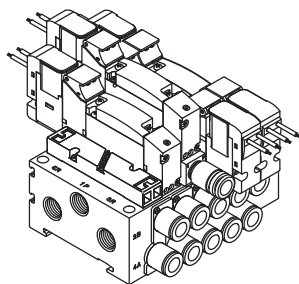
Dimensions when mounted



Note: For A, 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 ³ /(s/bar))	b	C (dm ³ /(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

Note 1: These are values when a valve is mounted.

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

How to order discrete part

● Exhaust spacer

Exhaust spacer model no.

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

A Air supply spacer model no.

B Port size
Note 1

C Set screw

		Valve model no.					
		4GA1	4GB1	4GA2	4GB2	4GA3	4GB3
Symbol	Descriptions						
A Exhaust spacer model no.							
1	For 4G1	●					
2	For 4G2			●			
3	For 4G3					●	
B Port size							
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		●				
06G	G1/8		●				
C Set screw							
Blank		●	●		●		
A	4GA3 A/B port: Rc1/4 thread					●	Note 2

is not available.

Accessories: 2 installation screws (Note 2), 2 PR check valves, 1 body gasket

⚠ Note on model no. selection

Note 1 Blank indicates ① M5 ② Rc1/8 ③ Rc1/4.

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

Note 3 Refer to manifold specifications in catalogs for the exhaust spacer installation location and amount.

Note 4 If the A/B port fitting is an elbow, the exhaust spacer's operation section will face the reverse side (a solenoid side).

Note 5 When selecting a reduced wiring manifold with an elbow A/B port fitting, the exhaust spacer cannot be used.

Note 6 Combination with the masking plate is not supported.

M4GA1 to 3/M4GB1 to 3 Series

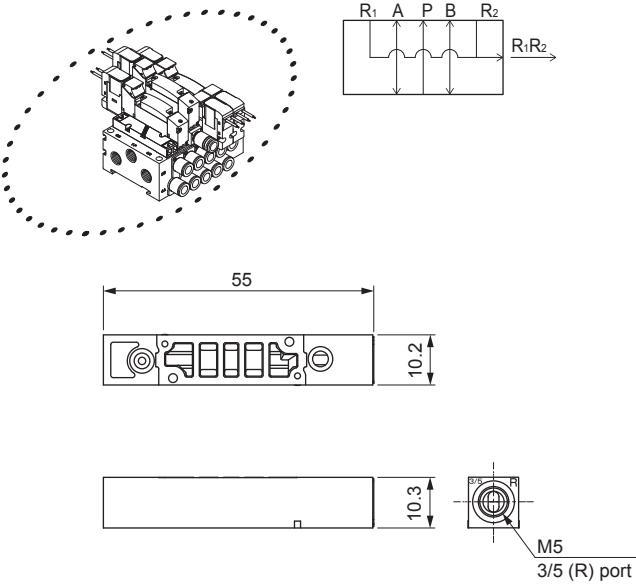
Related products

Related products

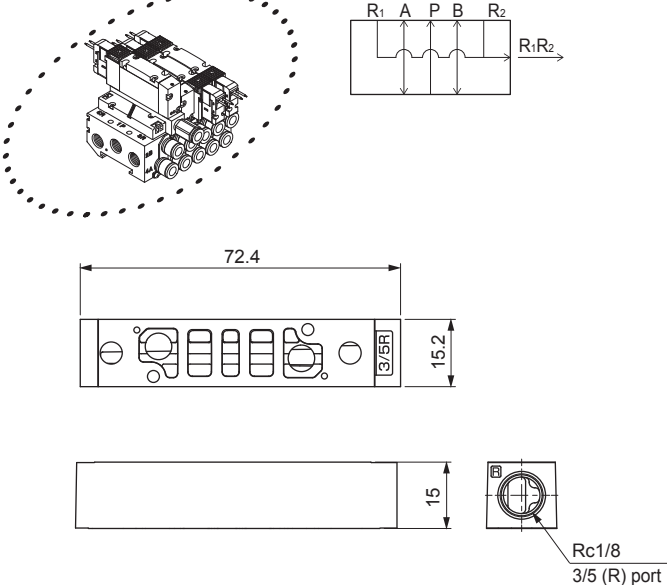
● Exhaust spacer

Dimensions

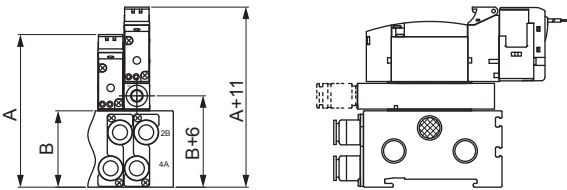
● 4G1



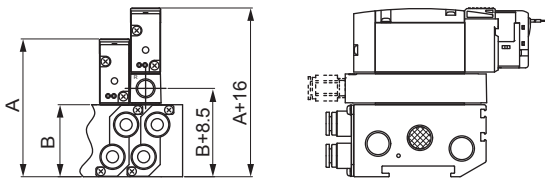
● 4G2



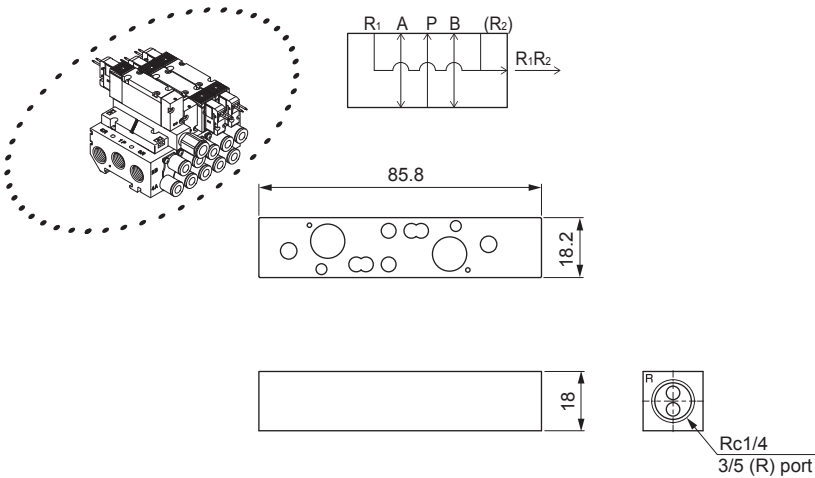
Dimensions when mounted



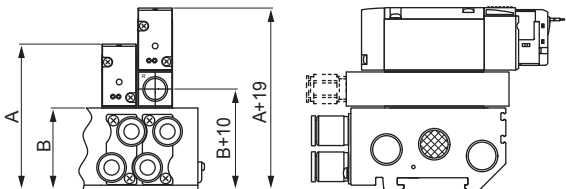
Dimensions when mounted



● 4G3



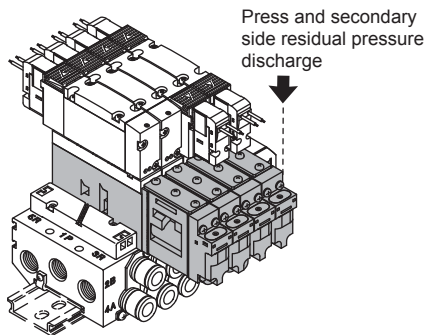
Dimensions when mounted



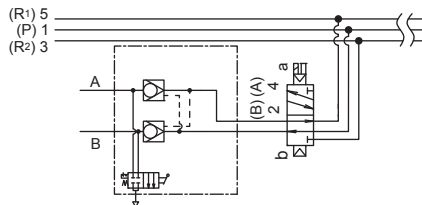
Note: For A, B dimensions, check the dimensions of respective specifications.

Related products

● Spacer type pilot check valve



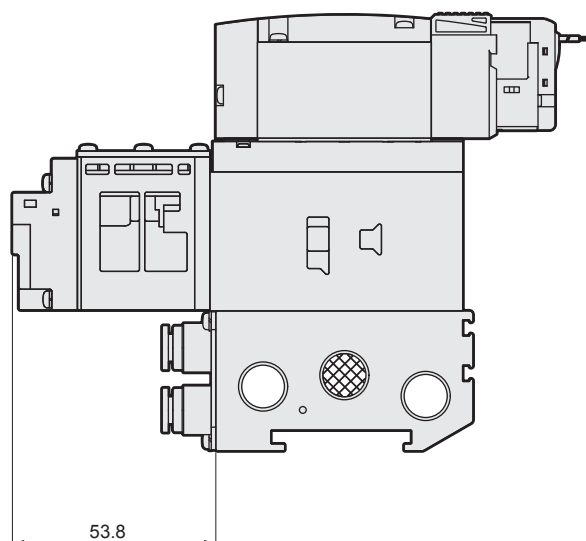
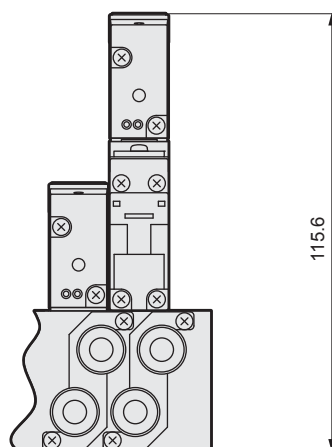
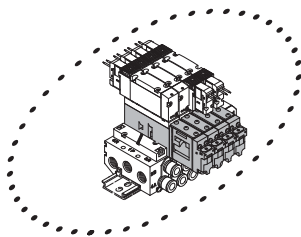
JIS symbol



Note: Please be careful since this may lead to a bad intermediate stop as well as a decline in the used intermediate stop frequency in the diameter of a large cylinder (standard more than $\phi 50$) that has almost no diaphragm on the exhaust side (ex: no speed controller, no silencer).

Dimensions

● M4GB2

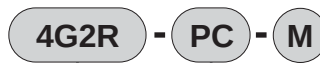


Specifications

Spacer type pilot check valve		4G2R-PC-M
Working fluid		Compressed air
Max. working pressure	MPa	0.7
Min. working pressure	MPa	0.2
Proof pressure	MPa	1.05
Effective sectional area	mm ²	4 (With solenoid valve)
Ambient temperature	°C	-5 to 55 (no freezing)
Fluid temperature	°C	5 to 55
Lubrication	Note 1	Not required
Atmosphere		Containing corrosive gas is not permissible
Weight	g	182.5

Note 1: Use the turbine oil Class 1 ISO VG32 if lubricated.
Excessive lubrication will lead to unstable operation.

Discrete model no.



Model no.

Spacer type pilot check valve

With a residual pressure function

⚠ Note on model no. selection

- Note 1: Specify the spacer mounting location in manifold specifications.
- Note 2: The spacer type pilot check valve cannot be selected in the case of an elbow A/B port fitting.
- Note 3: Stacking multiple spacers is not supported.
- Note 4: The spacer and masking plate can not be combined.
- Note 5: The spacer type pilot check valve that can be installed in the piping system is only the base piping type.

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

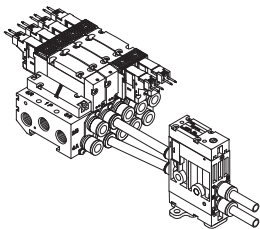
Manifold
Specifications

M4GA1 to 3/M4GB1 to 3 Series

Related products

Related products

● Pilot check valve



How to order

● Discrete model no.

4G2R - PCS - C4 - [Port size]

● Manifold model no.

M4G2R - PCS - C4 - [Port size] - [Station no.]

Model no.

Pilot check valve

A Port size
Note 1

B Option
Note 2

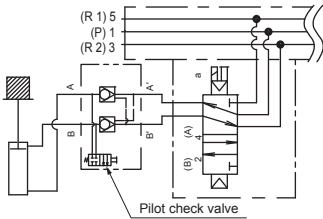
C Station no.

Specifications

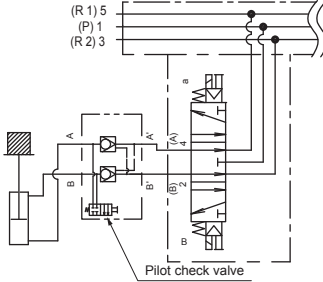
Descriptions	4G2R-PCS-**-*
Effective sectional area mm ²	11
Weight g	200

Symbol	Descriptions
A Port size	
	Valve side port Cylinder side port
C4	φ4 push-in fitting φ4 push-in fitting
C6	φ6 push-in fitting φ6 push-in fitting
C8	φ8 push-in fitting φ8 push-in fitting
CL6	φ6 push-in fitting L type φ6 push-in fitting (upward)
CL8	φ8 push-in fitting L type φ8 push-in fitting (upward)
B Option	
Blank	None
F	A/B port filter integrated
M	Manual non-locking
D	DIN rail mount type
C Station no.	
2	2 stations
to	to
10	10 stations

JIS symbol (Position locking)



(Stopping)



Example of leak comparison
All ports closed (solenoid) valve
10 cm³/min or less
Pilot check valve (4G2R-PCS)
0 to 0.3 cm³/min

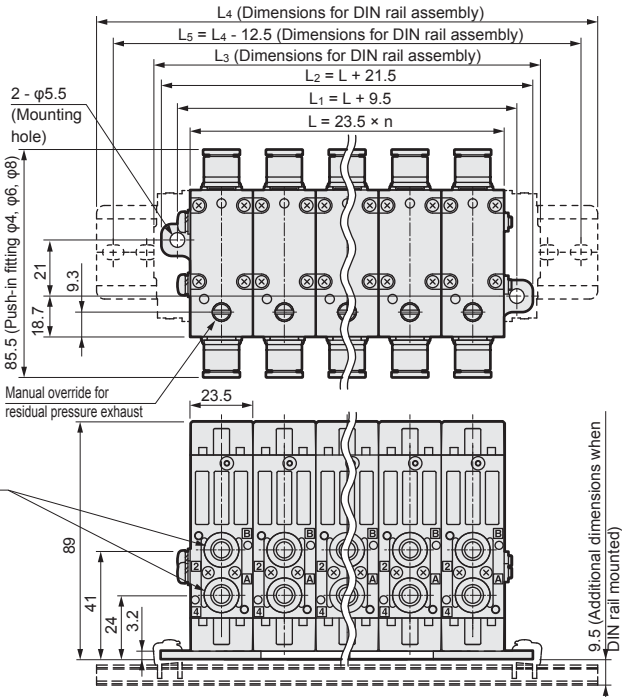
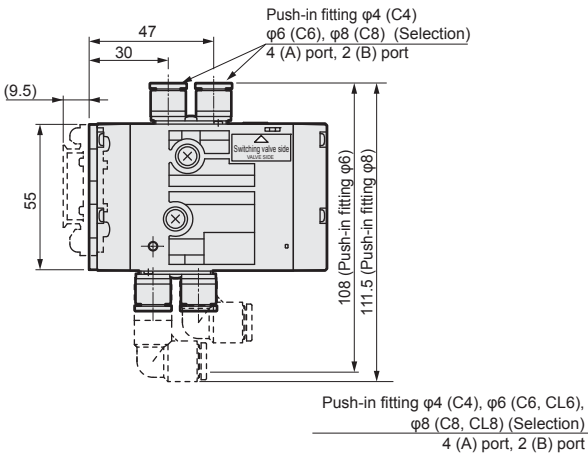
⚠ Depending on use conditions, the pilot check valve body may emit resonance due to the air flow when the cylinder operates, but this is not an abnormality. Adjust the pipe length and bore size in that case.

⚠ Note on model no. selection

Note 1: Contact CKD for information on mixing port sizes.

Note 2: The following applies when blank is selected as an option.
Manual override: Non-locking/locking common, Mounting method: Direct mounting.

Dimensions



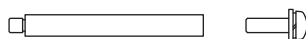
DIN rail length

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



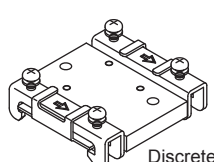
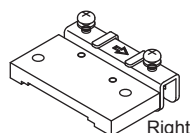
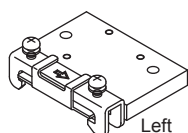
A Type
Note 1

A Type	
V 1	For 1 station
V 2	For 2 station
V 3	For 3 station
V 4	For 4 station
V 5	For 5 station

⚠ Note on model no. selection

Note 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)



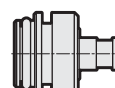
4G2R - PCS - D1

A Type

A Type		DIN rail adaptor kit selection list based on changes in specifications				
Detail of change	Symbol	Change from mounting plate to DIN rail		Increase/decrease stations with DIN rail mount		Descriptions
		1 station	More than 2 stations	More than 2 stations → 1 station	1 station → More than 2 stations	
D1	Right				● (Note 2)	DIN rail adaptor (right) 1, thread 2
D2	Right + left		●			DIN rail adaptor (right) 1, DIN rail adaptor (left) 1, thread 4
D3	Discrete	●		●		DIN rail adaptor (discrete) 1, thread 2

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

- Push in cartridge fitting
φ1.8 straight type
4G1R - JOINT - C18

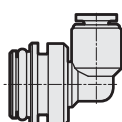


φ1.8L/φ4L/φ6L/φ8L/φ10L type (short elbow type)

4G1R - JOINT - C18 / C4 / C6

4G2R - JOINT - C6 / C8

4G3R - JOINT - C8 / C10

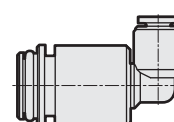


φ1.8L/φ4L/φ6L/φ8L/φ10L type (long elbow type)

4G1R - JOINT - CLL18 / CLL4 / CLL6

4G2R - JOINT - CLL6 / CLL8

4G3R - JOINT - CLL8 / CLL10



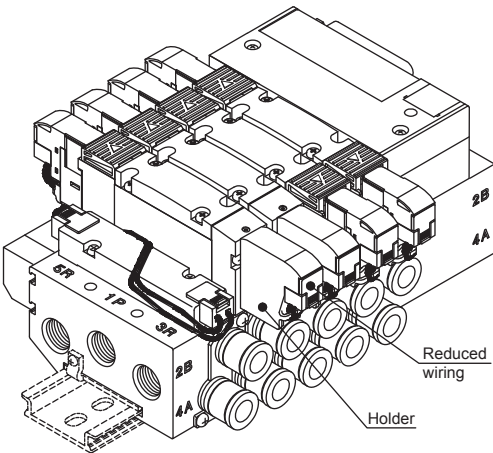
M4GA1 to 3/M4GB1 to 3 Series

Related products

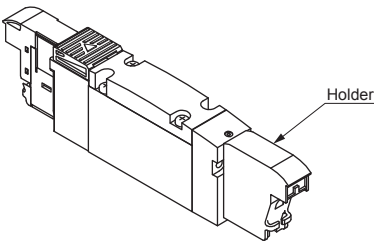
Related products

● Double wiring (single reduced wiring)

Manifold



Discrete valve (A2N)



This comes with a holder for holding the socket assembly.
(The A type socket assembly is not attached.)
If you want to change the valve from a double solenoid to a single solenoid, the unnecessary socket assembly is assembled and held.

The single solenoid valve cap side spare wiring (holder and A type socket assembly) is attached.
If you want to change the valve from the from a single solenoid to a double solenoid, valve change work is easier because there is no need to arrange the A type socket assembly separately.

Example of model no.

● Manifold model no. (example)

M 4GA1 1 0 R - C6 - T30 W1 H - 10 - 3

A Model no.

B Valve Position

C Port size

D Reduced wiring Connection

F Option

H Voltage

G Station no.

E Terminal and connector pin array

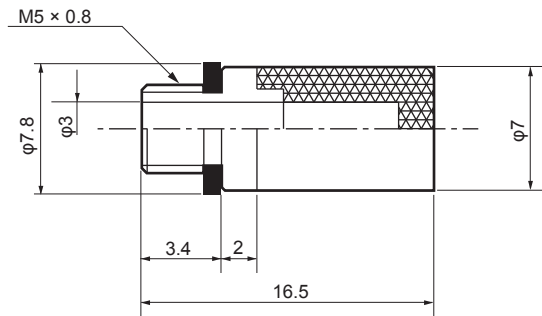
Symbol	Descriptions
E	Terminal and connector pin array
W1	Double wiring (With single reduced wiring)

* Refer to How to order of each series for details.

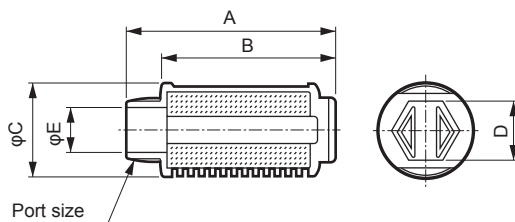
Related products

● Silencer

● SLM-M5



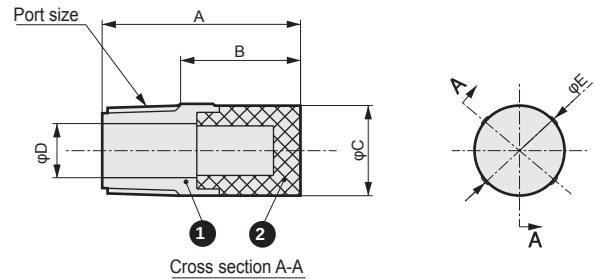
● SLW - 6A, 8A, 10A, 10L



Note 1: For mounting the silencer, check the dimensions in advance.
Note 2: Use SLW-8S for the M4GA2 DIN rail mount type. Interference occurs if SLW-8A is used.

Symbol Model no.	Large silencing effect dB (A)	Effective sectional area mm ²	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



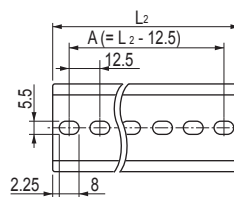
Model no.	Port size	A	B	C	D	E
SLW - 6S	R1/8	22	13.3	10.5	6	10.5
SLW - 8S	R1/4	28	19	14.8	9	15.4

● Plug

Part name	Model no.	Bore diameter available	Appearance
Blanking plug	PG-P2-B	φ1.8	
	GWP4-B	φ4	
	GWP6-B	φ6	
	GWP8-B	φ8	
	GWP10-B	φ12	
Thread plug	4G2R-06P	M5	
	4G1R-M5P	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	Plug with hexagon head hole

● DIN rail

N4GR - BAA



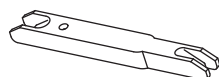
Note 1: Rail lengths not included in the list are available consult factory order product.

L ₁ : Manifold length	L ₂ : Rail length	A: Mounting pitch
35	47.5 or less	75
47.5 or more	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

When more than 510, round the value with multiple of 12.5.

● Push-in fitting tube remover

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



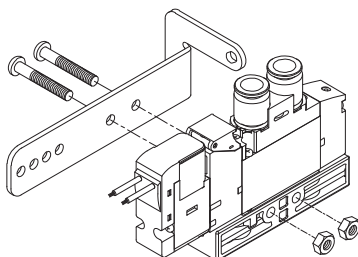
For φ4/φ6 push-in fitting
4GR-EOT4-6

M4GA1 to 3/M4GB1 to 3 Series

Related parts

Related parts

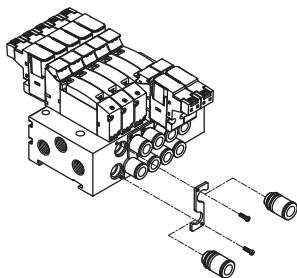
(1) Mounting plate (P) kit



Mounting (P) kit

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

(2) Discrete cartridge type push-in fitting related part



Fitting stopper plate kit

Model	Kit model no.
M4G1	4G1R-JNT-STP-PLATE-KIT
M4G2	4G2R-JNT-STP-PLATE-KIT
M4G3	4G3R-JNT-STP-PLATE-KIT

(3) Adaptor related kit

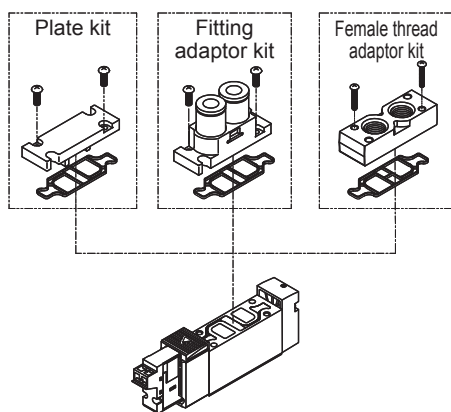


Plate kit

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

4GA1 R-JNT-ADAPTOR-KIT - C4 N.C. - F

A Model no.

B Port size

C N.C./N.O.

D Option

		A Model no.					
		3GA1	3GA2	3GA3	4GA1	4GA2	4GA3
B Port size							
CF	φ1.8 barbed type	●			●		
C18	φ1.8 straight type	●			●		
C4	φ4 straight type	●	●			●	
C6	φ6 straight type	●	●	●		●	●
C8	φ8 straight type		●	●		●	●
C10	φ10 straight type			●			●
C3N	φ1/8 inch straight type	●			●		
C4N	φ5/32 inch straight type	●			●		
C6N	φ1/4 inch straight type		●			●	
C8N	φ5/16 inch straight type		●	●		●	●
C10N	φ3/8 inch straight type			●			●
C N.C./N.O.							
N.C.	For 3GA*10	●	●	●			
N.O.	For 3GA*110	●	●	●			
Blank	Except for 3GA*10, 3GA*110	●	●		●	●	●
D Option							
Blank		●	●	●	●	●	●
F	A/B port filter integrated	●	●	●	●	●	●

Note: The fitting adapter (with fitting), gasket and mounting screws (*2) are in a set.

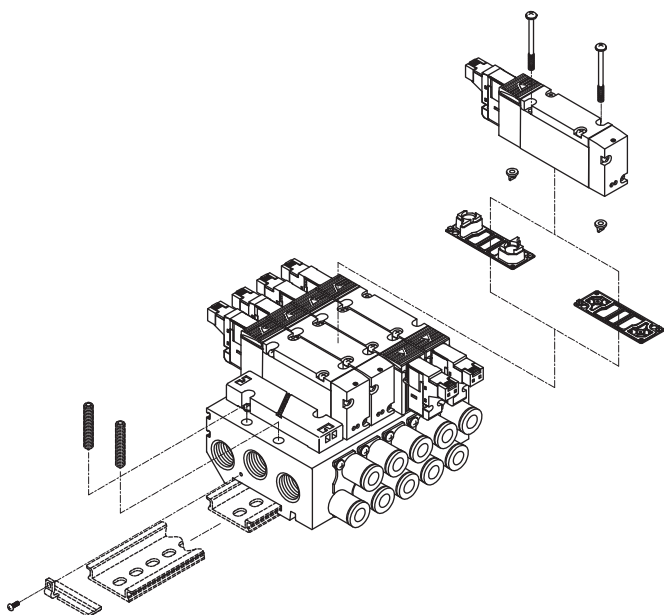
Female screw adaptor kit

Model	Kit model no.	Set parts
3GA1 & 4GA1	4G1R-FML-ADAPTOR-KIT - Port size - Option	Female screw adaptor, gasket, set screw 2
3GA2 & 4GA2	4G2R-FML-ADAPTOR-KIT - Port size - Option	Female screw adaptor, gasket, set screw 2
3GA3 & 4GA3	4G3R-FML-ADAPTOR-KIT - Port size - Option	Female screw adaptor, gasket, set screw 2, body set screw 2

When using an A/B port filter integrated type, specify the **option** in section "F".

Related parts

(4) Manifold related parts



Masking plate kit

Model	Model no.	Descriptions	Remarks
M3G1/M4G1	4G1R-MP	Masking plate Gasket Set screw 2	* 3G3 and 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 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

Set 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 port size)	4G3R-SET-SCREW-L

DIN rail kit

Model	Model no.	Descriptions
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	

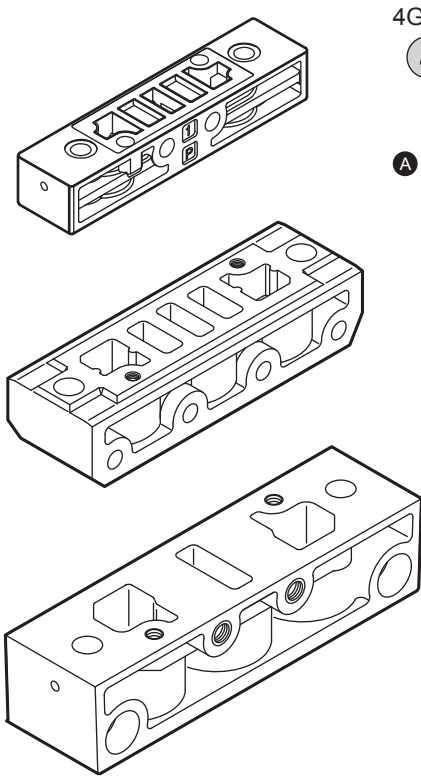
Specify the length "0" when the DIN rail is not required.
Specify the [Option] "K" when using with the manifold base for external pilot.
Set the DIN rail length, referring to the current manifold dimensions and DIN rail length quick reference list (page 297).

M4GA1 to 3/M4GB1 to 3 Series

Related parts

Related parts

(5) Sub-plate



4GA piping adaptor
4G1 R - ADAPTOR - M5

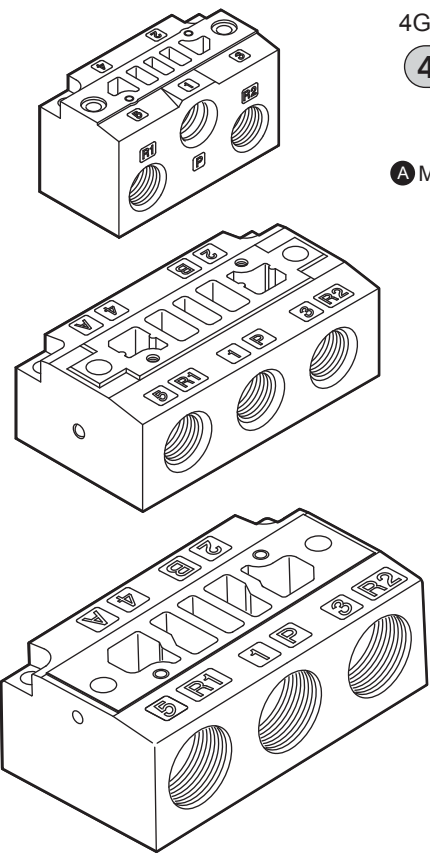
A Model no.

B Port size

C Option

B Port size (P/R1/R2 port)		A Model no.				
		3GA1	3GA2	3GA3	4GA1	4GA3
M5	M5	●			●	
06	Rc1/8		●		●	
08	Rc1/4			●		●
06N	1/8NPT		●		●	
08N	1/4NPT			○		○
06G	G1/8		●		●	
C Option						
P	Mounting plate	●	●	●	●	●

is not available.
○ Contact CKD for price and availability.



4GB Discrete sub-plate
4G1 R - SUB - BASE - 06

A Model no.

B Port size

C Option

B Port size (A/B/P/R1/R2 port)		A Model no.				
		3GB1	3GB2	4GB1	4GB2	4GB3
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						
F	A/B port filter integrated Note 1	●	●	●	●	●

Note 1: The P port has a filter built inside as a standard.
is not available.
○ Contact CKD for price and availability.

Related parts

(6) Manifold sub-plate kit individual wiring type

● M4GA Sub-plate

M4GA1 R - 00 - - 2

A Model no.

B Port size

C Option

D Station no.

Symbol	Descriptions
A Model No.	
M4GA1	Metal base 4G1 size base piping
M4GA2	Metal base 4G2 size base piping
M4GA3	Metal base 4G3 size base piping
B Port size	
00	M5/Rc
00N	NPT
00G	G screw
C Option	
Blank	
K	External pilot
D Station no.	
2	2 stations
to	to
20	Refer to the specifications page for the max. station no.

● M4GB1 Sub-plate

M4GB1R - CL4 - - D - 2

A Port size

B Option

C Mount type

D Station no.

Symbol	Descriptions	
A Port size		
Port	4 (A) /2 (B) port	P/R1/R2 port
CF	φ1.8 barbed fitting (applicable tube UP-9102-**)	Rc1/8
C18	φ1.8 push-in fitting (applicable tube UP-9402-**)	
C4	φ4 push-in fitting	
C6	φ6 push-in fitting	
C8	φ8 push-in fitting Note 1	
CL18	L type φ1.8 push-in fitting (upward) (applicable tube UP-9402-**)	
CL4	L type φ4 push-in fitting (upward)	
CL6	L type φ6 push-in fitting (upward)	
CD18	L type φ1.8 push-in fitting (downward) (applicable tube UP-9402-**)	
CD4	L type φ4 push-in fitting (downward)	
CD6	L type φ6 push-in fitting (downward)	
M5	M5	
Port	4 (A) /2 (B) port	P/R1/R2 port
C3N	φ1/8 inch push-in fitting	1/8NPT
C4N	φ5/32 inch push-in fitting	
CL3N	L type φ1/8 inch push-in fitting (upward) Note 1	
CL4N	L type φ5/32 inch push-in fitting (upward) Note 1	
Port	4 (A) /2 (B) port	P/R1/R2 port
C4G	φ4 push-in fitting	G1/8
C6G	φ6 push-in fitting	
CL4G	L type φ4 push-in fitting (upward) Note 1	
CL6G	L type φ6 push-in fitting (upward) Note 1	
B Option		
Blank		
K	External pilot	
F	A/B port filter integrated	
C Mount type		
Blank	Direct mount type	
D	DIN rail mount type Note 2	
D Station no.		
2	2 stations	
to	to	
20	Refer to the specifications page for the max. station no.	

Note 1: This is a available consult factory order.

Note 2: The DIN rail kit needs to be prepared separately.

4GA/B

M4GA/B

MN4GA/B

4GA/B
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GA1 to 3/M4GB1 to 3 Series

Related parts

Related parts

(6) Manifold sub-plate kit individual wiring type

● M4GB2/M4GB3 Sub-plate

M4GB2 R-CL4 - 2

B Port size

C Option

D Station no.

Symbol		Descriptions		M4G	M4G
B Port size					
Port	4 (A) /2 (B) port	P/R1/R2 port (1) = Rc1/4 (2) = Rc3/8			
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	Note 1	②	
CL6	L type φ6 push-in fitting (upward)	①			
CL8	L type φ8 push-in fitting (upward)	①		②	
CL10	L type φ10 push-in fitting (upward)			②	
CD6	L type φ6 push-in fitting (downward)	①			
CD8	L type φ8 push-in fitting (downward)	①		②	
CD10	L type 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 inch push-in fitting	③			
C8N	φ5/16 inch push-in fitting	③		④	
C10	φ3/8 inch push-in fitting			④	
CL6N	L type φ1/4 inch push-in fitting (upward) Note 1	③			
CL8N	L type φ5/16 inch push-in fitting (upward) Note 1	③			
06N	1/8NPT	③			
08N	1/4NPT		Note 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	L type φ6 push-in fitting (upward) Note 1	⑤			
CL8G	L type φ8 push-in fitting (upward) Note 1	⑤			
06N	G1/8	⑤			
C Option					
Blank					
K	External pilot				
F	A/B port filter integrated				
D Station no.					
2	2 stations				
to	to				
20	Refer to the specifications page for the max. station no.				

Note 1: This is a available consult factory order.

Related parts

(7) Manifold sub-plate kit reduced wiring type

● M4GA Sub-plate

M4GA1 R-00- - - 2

A Model no.

B Reduced wiring

C Option

D Mount type

E Station no.

Symbol	Descriptions		
A Model No.			
M4GA1	Metal base	4G1 size	base piping
M4GA2	Metal base	4G2 size	base piping
M4GA3	Metal base	4G3 size	base piping
B Reduced wiring			
T10	Common terminal block (M3 thread)		Left side specifications
T10R			Right side specifications
T11	Common terminal block (push tightening)		Left side specifications
T11R			Right side specifications
T30	D sub-connector		Left side specifications
T30R			Right side specifications
T50	20 pin flat cable connector (with power supply terminal)		Left side specifications
T50R			Right side specifications
T51	20 pin flat cable connector (without power supply terminal)		Left side specifications
T51R			Right side specifications
T52	10 pin flat cable connector (without power supply terminal)		Left side specifications
T52R			Right side specifications
T53	26 pin flat cable connector (without power supply terminal)		Left side specifications
T53R			Right side specifications
T56	20 pin flat cable connector (without power supply terminal) For serial transmission slave unit OPP3 connection		Left side specifications
T8	For serial transmission slave unit OPP7 connection		Left side specifications
C Option			
Blank			
K	External pilot		
D Mount type			Note 1
Blank	Direct mount type		
D	DIN rail mount type		
E Station no.			
2	2 stations		
to	to		
20	Refer to the specifications page for the max. station no.		

Note 1: In the case of T8, please select the mount type.
Items other than the T8 have no symbol.

M4GA1 to 3/M4GB1 to 3 Series

Related parts

Related parts

(7) Manifold sub-plate kit reduced wiring type

● M4GB Sub-plate

M4GB1 R - **CL4** - **T10** - **2**

A Model no.

B Port size

C Reduced wiring

D Option

E Mount type

F Station no.

A Model no.		
M4GB1	M4GB2	M4GB3
P/R1/R2 port (1) = Rc1/8 (2) = Rc1/4 (3) = Rc3/8		
①		
①		
①	②	
①	②	③
①	②	③
	②	③
①		
①		
①	②	
	②	③
		③
①		
①	②	
	②	③
		③
①		
	②	
		③

Symbol	Descriptions			
B Port size				
Port	4 (A) /2 (B) port			
CF	φ1.8 barbed fitting (applicable tube UP-9102-**)	①		
C18	φ1.8 push-in fitting (applicable 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	L type φ1.8 push-in fitting (upward) (applicable tube UP-9402-**)	①		
CL4	L type φ4 push-in fitting (upward)	①		
CL6	L type φ6 push-in fitting (upward)	①	②	
CL8	L type φ8 push-in fitting (upward)		②	③
CL10	L type φ10 push-in fitting (upward)			③
CD18	L type φ1.8 push-in fitting (downward) (applicable tube UP-9402-**)	①		
CD4	L type φ4 push-in fitting (downward)	①		
CD6	L type φ6 push-in fitting (downward)	①	②	
CD8	L type φ8 push-in fitting (downward)		②	③
CD10	L type 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 specifications
T10R		Right side specifications
T11	Common terminal block (push tightening)	Left side specifications
T11R		Right side specifications
T30	D sub-connector	Left side specifications
T30R		Right side specifications
T50	20 pin flat cable connector (with power supply terminal)	Left side specifications
T50R		Right side specifications
T51	20 pin flat cable connector (without power supply terminal)	Left side specifications
T51R		Right side specifications
T52	10 pin flat cable connector (without power supply terminal)	Left side specifications
T52R		Right side specifications
T53	26 pin flat cable connector (without power supply terminal)	Left side specifications
T53R		Right side specifications
T56	20 pin flat cable connector (without power supply terminal) For serial transmission slave unit OPP3 connection	Left side specifications
T8	For serial transmission slave unit OPP7 connection	Left side specifications

D Option	
Blank	
K	External pilot
F	A/B port filter integrated

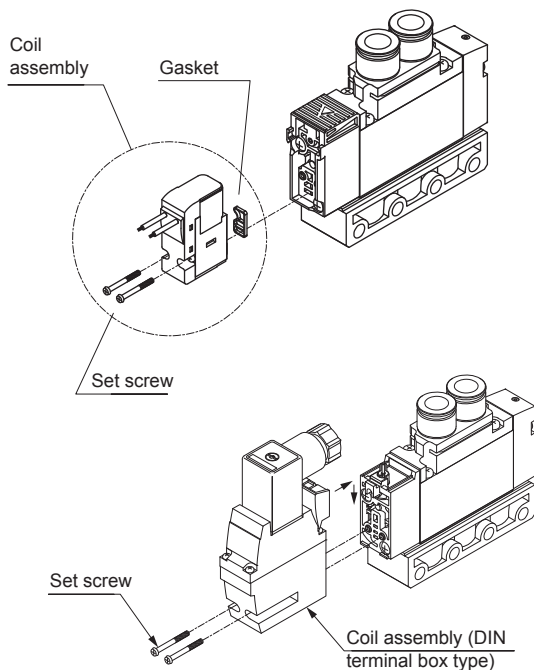
E Mount type		Note 1
Blank	Direct mount type	
D	DIN rail mount type	

F Station no.	
2	2 stations
to	to
20	Refer to the specifications page for the max. station no.

Note 1: In the case of T8, please select the mount type.
Items other than the T8 have no symbol.

Related parts

(8) Coil assembly



Coil assembly

No.	Parts name	Model no.
1	Coil assembly	4GR- Electric wire Connection -* COIL - Voltage
		Blank: Standard A: Ozone specifications S: Surgeless Note 1 E: Low heat and energy saving circuit Note 1, Note 2 E*: E type connector type E*J: Socket with cover type B*: DIN terminal box type Blank : Grommet lead wire B includes the DIN terminal box

Note 1 Only the E2* type, E2* J type connector and 12/24 VDC are supported.
In addition, the surgeless "S" and low heat energy-saving circuit "E" cannot be selected at the same time.

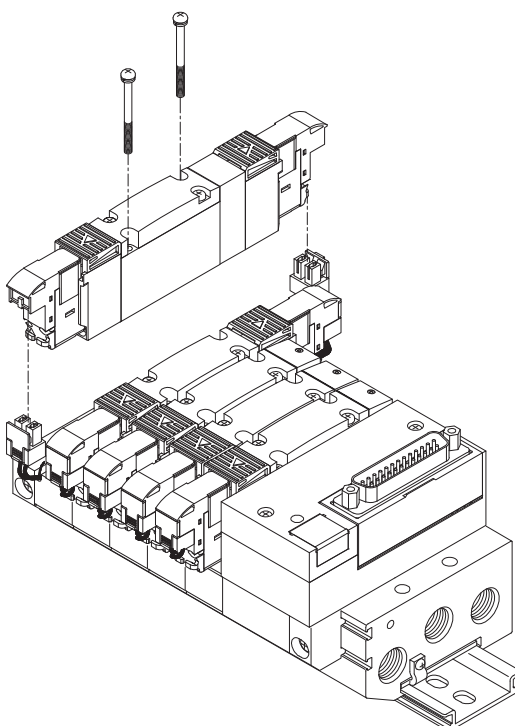
Note 2 This is surgeless specifications.

Coil parts

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

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

(9) Lead wire related parts



socket assembly

No.	Parts name	Model no.
2	E type connector socket assembly	4GR-SOCKET-ASSY-E** Voltage
3	Socket assembly with cover	4GR-SOCKET-ASSY-E**J
4	DIN terminal box assembly	4GR-TERMINAL-BOX - 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.

M4GA1 to 3/M4GB1 to 3 Series

How to prepare metal base M4G series manifold specifications sheet

● Manifold model no. (example)

M 4 G^A_B 1 8 0R- CX - T30 - 9 - 3Type of
solenoid valveValve
Position

Port size

Electrical
connectionsTerminal connector
pin arrayStation
no.

Voltage

Cautions for fitting mix CX

The A/B port fitting can be selected freely by indicating "CX" in the port size column.

Available cartridge fitting

4G1	CF, C18, C4, C6, C8, × (plug)
4G2	C4, C6, C8, C10, × (plug)
4G3	C6, C8, C10, × (plug)

* A/B port fitting mix with the body piping type is not supported. The 4G1 C8 and 4G2 C10 are corresponding to built-to-order manufacturing only for the base piping type. The fitting mix CX corresponds only to a combination of the C8 and X (plug) for the 4G1 and C10 and X (plug) for the 4G2.

Using the base piping type M4GB*10 as a 3 port valve

This can be used as the N.O./N.C. type by attaching a plug cartridge on one side of the A/B port. Indicate "X" in the fitting CX column.

Switching method	Plug mounting port
N.C. (normally closed)	B
N.O. (normally open)	A

When selecting female thread specifications, indicate the required number of plugs in the "Thread plug" column at the end.

Female threads and a cartridge fitting cannot be used together in one manifold set.

Elbow type specifications

- The L type push-in fitting (upward) is available only for the single solenoid manifold. The port A is a long elbow and the port B is a short elbow.
- A/B port sizes do not differ for elbow type specifications.

Solenoid valve model no.		Fitting CX		Installation position																								Quantity
		A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
4G ^B 119R-CX		C6	X	○	○																							2
4G ^B 119R-C6						○	○																					2
4G ^B 129R-C6								○	○																			2
4G ^B 159R-CX		C6	C4							○	○																	2
4G ^B 19R-																												
3G ^A 19R-																												
3G ^A 19R-																												
Masking plate 4G1R-MP (S)																												
Masking plate 4G1R-MP (D)											○																	1

* A reference circuit diagram for the above manifold (example) is shown on the next page.

There are manifold specifications for each model. Fill out the applicable specifications.

- Individual wiring...M4G^A_B1 (page 200), M4G^A_B2 (page 201), M4G^A_B3 (page 203)
- Reduced wiring
 - Common terminal block (T1*), D sub-connector (T30): M4G^A_B1 (page 203), M4G^A_B2 (page 204), M4G^A_B3 (page 205)
 - Flat cable connector (T5*): M4G^A_B1 (page 206), M4G^A_B2 (page 207), M4G^A_B3 (page 208)
 - Serial transmission (T6*): M4G^A_B1 (page 209), M4G^A_B2 (page 210), M4G^A_B3 (page 211)
 - Serial transmission (T8*): M4G^A_B1 (page 212), M4G^A_B2 (page 213), M4G^A_B3 (page 214)

Check if the tube remover (standard attached product) is not required.

A tube punching tool is not attached to the M4GB1* OR-C8.

Note 1: For mounting the silencer, check the dimensions in advance.

Note 2: Use SLW-8S for the M4GA2 DIN rail mount type. Interference occurs if SLW-8A is used.

M4GA1 to 3/M4GB1 to 3 Series

How to fill out wiring specifications form

This is not required for standard wiring and double wiring.

● Wiring specifications (example)

Complete these specifications when specifying the wiring order and additional cables.

Connector pin no.		Installation position																
T30/T30R	T50/T50R/T6*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	1	a																
14	2	a																
2	3		a															
15	4			a														
3	5				a													
16	6					a												
4	7					b												
17	8						a											
5	9 - Power supply						b											
18	10 + (COM) Power supply							a										
6	11							b										
19	12								a									
7	13								b									
20	14									(a)								
8	15									(b)								
21	16																	
9	17																	
22	18																	
10	19 - Power supply																	
23	20 + (COM) Power supply																	
11																		
24																		
12																		
25																		
13 (COM)																		

*: When T50 type wiring is used, the COM polarity is + (plus).

*: When T50 wiring is used, connector pin no. 9, 10, 19, and 20 cannot be specified because they are used for the external input power supply.

*: Wiring is sequential from connector pin no. 1 in standard wiring. Contact CKD for the special wiring order.

Cautions for reserved wiring

(1) Reserved wire(s) is/are provided on the masking plate for the reduced wiring manifold. (refer to page 188)

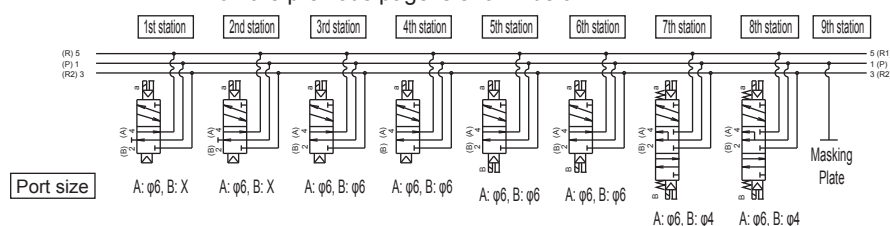
The number of reserved wires can be specified by selecting the masking plate in specifications.

4G *R - MP (S)... 1

4G *R - MP (D)... 2

Indicate (a) or (b) in manifold specifications for masking plate reserved wires.

Reference circuit diagram The simplified circuit diagram of the manifold model no. (example) on the previous page is shown below.



* The manifold station no. is set in order from left with the piping port facing forward.

4GA/B

M4GA/B

MN4GA/B

4GA/B
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautionsManifold
Specifications

M4G1 individual wiring

M4G^A_B1 manifold specifications

Date of issue / /

Your company name

Contact

Order no.

● Contact ● Quantity set(s) ● Delivery date month day

Slip No.

Order No.

● Manifold model no.

M **G^A_B1** **0R-** - - - - **Station no.** **Voltage**

Type of solenoid valve Valve Position Port size Electrical connections Other options Mount type

Solenoid valve model no.		Fitting CX		Valve installation position																								Quantity
		A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
4G	1 9R																											
4G	1 9R																											
4G	1 9R																											
4G	1 9R																											
4G	1 9R																											
3G	1 9R																											
3G	1 9R																											
Masking plate 4G1R-MP-																												
Air supply spacer 4G1R-P-																												
In stop valve spacer 4G1R-IS																												
Exhaust spacer 4G1R-R-																												
Mounting rail L ₂ = *Fill in the integral multiple of 12.5.	Attached Part	Blanking plug										Thread plug				Silencer												
		PG-P2-B					GWP4-B					4G1R-M5P			SLW-6S					SLW-6A								
		GWP6-B					GWP8-B																					
		Push-in fitting tube remover (standard) Not required (check)																										

* A tube punching tool is not attached to the M4GB1 C8.

M4G2 individual wiring

M4G^A_B2 manifold specifications

Date of issue / /

Your company name

● Contact ● Quantity set(s) ● Delivery date month day

Slip No. Order No.

Contact

Order no.

● Manifold model no.

M G^A_B2 0R- - - - -

Type of solenoid valve Valve Position Port size Electrical connections Other options Mount type Station no. Voltage

Solenoid valve model no.			Fitting CX		Valve installation position																								Quantity	
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
4G	2	9R-																												
4G	2	9R-																												
4G	2	9R-																												
4G	2	9R-																												
4G	2	9R-																												
3G	2	9R-																												
3G	2	9R-																												
Masking plate 4G2R-MP-																														
Air supply spacer 4G2R-P-																														
In stop valve spacer 4G2R-IS																														
Exhaust spacer 4G2R-R																														
Spacer type pilot check valve 4G2R-PC-M*																														
Mounting Rail	L ₂ = *Fill in the integral multiple of 12.5.	Attached Part	Blanking plug												Thread plug				Silencer											
			GWP4-B						GWP6-B						4G2R-06P		SLW-8S				SLW-8A									
			GWP8-B						GWP10-B																					

* Available only for B type.

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

Date of issue / /

Your company name

Contact

Order no. _____

● Contact ● Quantity set(s) ● Delivery date month day

Slip No.	Order No.
----------	-----------

M **G_B^A3** **0R-** - - -

Type of solenoid valve Valve Position Port size Electrical connections Other options Mount type Station no. Voltage

MN4GD/E	Technical data	Safety precautions
---------	----------------	--------------------

M4G1 Reduced wiring

M4G^A_B1-T1, 3 manifold specifications

Date of issue / /

Your company name

● Contact

● Quantity

set(s)

● Delivery date month day

Contact

Slip No.

Order No.

Order no.

● Manifold model no.

M **G^A_B1**

0R-

Port size

Reduced wiring

Terminal connector pin array

Option

Mount type

Station no.

Voltage

Type of solenoid valve			Valve Position		Port size		Reduced wiring		Terminal connector pin array		Option		Mount type		Station no.		Voltage												
Solenoid valve model no.			Fitting CX		Valve installation position																								Quantity
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
4G	1	9R-																											
4G	1	9R-																											
4G	1	9R-																											
4G	1	9R-																											
4G	1	9R-																											
3G	1	9R-																											
3G	1	9R-																											
Masking plate 4G1R-MP (S) -																													
Masking plate 4G1R-MP (D) -																													
Air supply spacer 4G1R-P-																													
In stop valve spacer 4G1R-IS																													
Exhaust spacer 4G1R-R-																													
Mounting rail	L ₂ = *Fill in the integral multiple of 12.5.	Accessories	Blanking plug								Thread plug				Silencer														
			PG-P2-B				GWP4-B				4G1R-M5P				SLW-6S				SLW-6A										
			GWP6-B				GWP8-B																						
			Cable with D-sub connector				4GR-CABLE-D0*-*				Push-in fitting tube remover (standard)				Not required (check)														

* A tube punching tool is not attached to the M4GB1 C8.

● Wiring specifications (This is not required for standard wiring and double wiring. Complete these specifications when designating the wiring sequence and extra cables)

Connector pin no.			Installation position																							
T10/T10R	T11/T11R	T30/T30R	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1	1																								
2	2	14																								
3	3	2																								
4	4	15																								
5	5	3																								
6	6	16																								
7	7	4																								
8	8	17																								
9	9	5																								
10	10	18																								
11	11	6																								
12	12	19																								
13	13	7																								
14	14	20																								
15	15	8																								
16	16	21																								
COM	17	9																								
COM	18	22																								
	19	10																								
	20	23																								
	21	11																								
	22	24																								
	23	12																								
	24	25																								
	COM	13 (COM)																								
	COM																									

Date of issue / /

Your company name

Contact

Order no.

● Contact ● Quantity set(s) ● Delivery date month day

Slip No.	Order No.
----------	-----------

● Manifold model no.

M **G_B^A1** **0R-** - - -

Type of solenoid valve Valve Position Port size Reduced wiring Terminal connector pin array Option Mount type Station no. Voltage

Solenoid valve model no.			Fitting CX		Valve installation position																								Quantity															
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																
4G	1	9R																																										
4G	1	9R																																										
4G	1	9R																																										
4G	1	9R																																										
4G	1	9R																																										
3G	1	9R																																										
3G	1	9R																																										
Masking plate 4G1R-MP (S) -																																												
Masking plate 4G1R-MP (D) -																																												
Air supply spacer 4G1R-P-																																												
In stop valve spacer 4G1R-IS																																												
Exhaust spacer 4G1R-R-																																												
Mounting Rail	L2 = *Fill in the integral multiple of 12.5.	Attached Part	Blanking plug										Thread plug				Silencer																											
			PG-P2-B										GWP4-B								4G1R-M5P								SLW-6S								SLW-6A							
			GWP6-B										GWP8-B																															
			Push-in fitting tube remover (standard) Not required (check)																																									

* A tube punching tool is not attached to the M4GB1 C8.

● Wiring specifications (This is not required for standard wiring and double wiring. Complete these specifications when designating the wiring sequence and extra cables)

[illegible]

*: When T50 wiring is used, COM polarity will be + (plus).

*: When T50 wiring is used, connector pin no. 9, 10, 19, and 20 cannot be specified because they are used for the external input power supply.

M4G2 Reduced wiring

M4G^A_B 2-T5 manifold specification sheet

Date of issue / /

Your company name

Contact

Order no.

● Contact ● Quantity set(s) ● Delivery date month day

Slip No. Order No.

● Manifold model no.

M **G^A_B2** **0R-** - - -

Type of solenoid valve Valve Position Port size Reduced wiring Terminal connector pin array Option Mount type Station no. Voltage

Solenoid valve model no.			Fitting CX		Valve installation position																								Quantity
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
4G	2	9R																											
4G	2	9R																											
4G	2	9R																											
4G	2	9R																											
4G	2	9R																											
3G	2	9R																											
3G	2	9R																											
Masking plate 4G2R-MP (S) -																													
Masking plate 4G2R-MP (D) -																													
Air supply spacer 4G2R-P-																													
In stop valve spacer 4G2R-IS																													
Exhaust spacer 4G2R-R-																													
Spacer type pilot check valve 4G2R-PC-M*																													
Mounting Rail	L ₂ = *Fill in the integral multiple of 12.5.	Attached Part	Blanking plug												Thread plug				Silencer										
			GWP4-B				GWP6-B				4G2R-06P				SLW-8S				SLW-8A										
			GWP8-B				GWP10-B																						

* Available only for B type.

● Wiring specifications (This is not required for standard wiring and double wiring. Complete these specifications when designating the wiring sequence and extra cables)

Connector pin No.				Installation position																							
T50/T50R	T51/T51R	T52/T52R	T53/T53R	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1	1	1																								
2	2	2	2																								
3	3	3	3																								
4	4	4	4																								
5	5	5	5																								
6	6	6	6																								
7	7	7	7																								
8	8	8	8																								
9 - Power supply	9	9	COM	9																							
10 + (COM) Power supply	10	10	COM	10																							
11	11		11																								
12	12		12																								
13	13		13																								
14	14		14																								
15	15		15																								
16	16		16																								
17	17		17																								
18	18		18																								
19 - Power supply	19	COM	19																								
20 + (COM) Power supply	20	COM	20																								
			21																								
			22																								
			23																								
			24																								
			25	COM																							
			26	COM																							

*: When T50 wiring is used, COM polarity will be + (plus).

*: When T50 wiring is used, connector pin no. 9, 10, 19, and 20 cannot be specified because they are used for the external input power supply.

Date of issue / /

Your company name

Contact

Order no.

● Manifold model no.

M **G^AB₃** **0R-** - - -

Type of solenoid valve Valve Position Port size Reduced wiring Terminal connector pin array Option Mount type Station no. Voltage

Solenoid valve model no.			Fitting CX		Valve installation position																								Quantity
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
4G	:3	:9R-																											
4G	:3	:9R-																											
4G	:3	:9R-																											
4G	:3	:9R-																											
4G	:3	:9R-																											
3GA3																													
3GA3																													
Masking plate 4G3R-MP (S) -																													
Masking plate 4G3R-MP (D) -																													
Air supply spacer 4G3R-P-																													
In stop valve spacer 4G3R-IS																													
Exhaust spacer 4G3R-R-																													
Mounting Rail	L ₂ =		Blanking plug												Thread plug				Silencer										
	*Fill in the integral multiple of 12.5.		GWP6-B				GWP8-B				GWP10-B				4G3R-08P				SLW-10A		SLW-10L								

[illegible]

*: When T50 wiring is used, connector pin no. 9, 10, 19, and 20 cannot be specified because they are used for the external input power supply.

M4G1 Serial transmission type

M4G^A_B 1-T6D Manifold specifications

Date of issue / /

Your company name

● Contact ● Quantity set(s) ● Delivery date month day

Slip No. Order No.

Contact

Order no.

● Manifold model no.

M **G^A_B1** **0R-** - **D** - - **3**

Type of solenoid valve Valve Position Port size Serial transmission Terminal and connector pin array Option Station no. Voltage

Solenoid valve model no.			Fitting CX		Valve installation position																Quantity					
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16						
4G	1	9R																								
4G	1	9R																								
4G	1	9R																								
4G	1	9R																								
4G	1	9R																								
3G	1	9R																								
3G	1	9R																								
Masking plate 4G1R-MP (S) -																										
Masking plate 4G1R-MP (D) -																										
Air supply spacer 4G1R-P-																										
In stop valve spacer 4G1R-IS																										
Exhaust spacer 4G1R-R-																										
Mounting Rail	L2= *Fill in the integral multiple of 12.5.	Attached Part	Blanking plug								Thread plug				Silencer											
			PG-P2-B				GWP4-B				4G1R-M5P				SLW-6S		SLW-6A									
			GWP6-B				GWP8-B																			
			Push-in fitting tube remover (standard) Not required (check)																							

* A tube punching tool is not attached to the M4GB1 C8.

● Wiring specifications (This is not required for standard wiring and double wiring. Complete these specifications when designating the wiring sequence and extra cables)

Connector pin no.		Installation position															
T6*		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
T6A0: UNIWIRED SYSTEM 8 points	1																
	2																
	3																
	4																
	5																
T6A1: UNIWIRED SYSTEM 16 points	6																
	7																
T6C0: CompoBus/S 8 points	8																
	9																
T6C1: CompoBus/S 16 points	10 COM																
	11																
T6G1: CC-Link 16 points	12																
	13																
T6E0: S-LINK 8 points	14																
	15																
T6E1: S-LINK 16 points	16																
	17																
T6J0: UNIWIRED H SYSTEM 8 points	18																
	19																
T6J1: UNIWIRED H SYSTEM 16 points	20 COM																

M4G2 Serial transmission type

M4G^A_B2-T6D Manifold specifications

Date of issue / /

Your company name

Contact

Order no.

● Contact ● Quantity set(s) ● Delivery date month day

Slip No.

Order No.

● Manifold model no.

M **G^A_B2** **0R-** - **D** - - **3**

Type of solenoid valve Valve Position Port size Serial transmission Terminal and connector pin array Option Station no. Voltage

Solenoid valve model no.			Fitting CX		Valve installation position																Quantity
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
4G	2	9R-																			
4G	2	9R-																			
4G	2	9R-																			
4G	2	9R-																			
4G	2	9R-																			
3G	2	9R-																			
3G	2	9R-																			
Masking plate 4G2R-MP (S) -																					
Masking plate 4G2R-MP (D) -																					
Air supply spacer 4G2R-P-																					
In stop valve spacer 4G2R-IS																					
Exhaust spacer 4G2R-R-																					
Spacer type pilot check valve 4G2R-PC-M																					
Mounting Rail	L ₂ = *Fill in the integral multiple of 12.5.	Attached Part	Blanking plug									Thread plug			Silencer						
			GWP4-B				GWP6-B				4G2R-06P			SLW-8S			SLW-8A				
			GWP8-B				GWP10-B														

● Wiring specifications (This is not required for standard wiring and double wiring. Complete these specifications when designating the wiring sequence and extra cables)

Connector pin no.			Installation position																	
T6*			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
T6A0: UNIWIRE SYSTEM 8 points T6A1: UNIWIRE SYSTEM 16 points T6C0: CompoBus/S 8 points T6C1: CompoBus/S 16 points T6G1: CC-Link 16 points T6E0: S-LINK 8 points T6E1: S-LINK 16 points T6J0: UNIWIRE H SYSTEM 8 points T6J1: UNIWIRE H SYSTEM 16 points	1																			
	2																			
	3																			
	4																			
	5																			
	6																			
	7																			
	8																			
	9																			
	10 COM																			
	11																			
	12																			
	13																			
	14																			
	15																			
	16																			
	17																			
	18																			
	19																			
	20 COM																			

M4G3 Serial transmission type

M4G^A_B3-T6D Manifold specifications

Date of issue / /

Your company name

● Contact ● Quantity set(s) ● Delivery date month day

Slip No. Order No.

Contact

Order no.

● Manifold model no.

M **G^A_B3** **0R-** **-** **D** - **3**
 Type of solenoid valve Valve Position Port size Serial transmission Terminal and connector pin array Option Station no. Voltage

Solenoid valve model no.			Fitting CX		Valve installation position																Quantity
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
4G	3	9R-																			
4G	3	9R-																			
4G	3	9R-																			
4G	3	9R-																			
4G	3	9R-																			
3GA3		9R-																			
3GA3		9R-																			
Masking plate 4G3R-MP (S) -																					
Masking plate 4G3R-MP (D) -																					
Air supply spacer 4G3R-P-																					
In stop valve spacer 4G3R-IS																					
Exhaust spacer 4G3R-R-																					
Mounting Rail	L ₂ =		Attached Part	Blanking plug								Thread plug			Silencer						
				GWP6-B		GWP8-B		GWP10-B		4G3R-08P		SLW-10A			SLW-10L						
*Fill in the integral multiple of 12.5.																					

● Wiring specifications (This is not required for standard wiring and double wiring. Complete these specifications when designating the wiring sequence and extra cables)

Connector pin no.		Installation position															
T6*		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
T6A0: UNIWIRE SYSTEM 8 points	1																
	2																
	3																
	4																
T6A1: UNIWIRE SYSTEM 16 points	5																
	6																
T6C0: CompoBus/S 8 points	7																
	8																
T6C1: CompoBus/S 16 points	9																
	10 COM																
T6G1: CC-Link 16 points	11																
	12																
T6E0: S-LINK 8 points	13																
	14																
T6E1: S-LINK 16 points	15																
	16																
T6J0: UNIWIRE H SYSTEM 8 points	17																
	18																
T6J1: UNIWIRE H SYSTEM 16 points	19																
	20 COM																

M4G1 Serial transmission type Thin type

M4G^A_B 1-T8 manifold specification sheet

Date of issue / /

Your company name

● Contact ● Quantity set(s) ● Delivery date month day

Slip No. Order No.

Contact

Order no.

● Manifold model no.

M **G^A_B1** **0R-** - - - - **3**

Type of solenoid valve Valve Position Port size Serial transmission Terminal and connector pin array Option Mount type Station no. Voltage

Solenoid valve model no.			Fitting CX		Valve installation position																				Quantity
A	B		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
4G	1	9R-																							
4G	1	9R-																							
4G	1	9R-																							
4G	1	9R-																							
4G	1	9R-																							
3G	1	9R-																							
3G	1	9R-																							
Masking plate 4G1R-MP (S) -																									
Masking plate 4G1R-MP (D) -																									
Air supply spacer 4G1R-P-																									
In stop valve spacer 4G1R-IS																									
Exhaust spacer 4G1R-R-																									
Mounting Rail	L ₂ = *Fill in the integral multiple of 12.5.	Attached Part	Blanking plug										Thread plug				Silencer								
			PG-P2-B					GWP4-B					4G1R-M5P				SLW-6S		SLW-6A						
			GWP6-B					GWP8-B																	
			Push-in fitting tube remover (standard)										Not required (check)												

* A tube punching tool is not attached to the M4GB1 C8.

● Wiring specifications (This is not required for standard wiring and double wiring. Complete these specifications when designating the wiring sequence and extra cables)

Connector pin no.				Installation position																				
T8*				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
T8G1	CC-Link	NPN	16 points	1																				
			32 points	2																				
PNP		16 points	3																					
		32 points	4																					
T8GP1			16 points	5																				
32 points			6																					
T8GP2			16 points	7																				
			32 points	8																				
T8P1	PROFIBUS-DP	NPN	16 points	9																				
32 points			10																					
T8P2		PNP	16 points	11																				
32 points			12																					
T8PP1			16 points	13																				
32 points			14																					
T8PP2			16 points	15																				
			32 points	16																				
T8EC1	EtherCAT	NPN	16 points	17																				
32 points			18																					
T8EC2		PNP	16 points	19																				
32 points			20																					
T8ECP1			16 points	21																				
32 points			22																					
T8ECP2			16 points	23																				
			32 points	24																				
T8EN1	EtherNet/IP	NPN	16 points	25																				
32 points			26																					
T8EN2		PNP	16 points	27																				
32 points			28																					
T8ENP1				29																				
				30																				
				31																				
				32																				
T8ENP2																								

M4G2 Serial transmission type Thin type

M4G^A_B2-T8 manifold specification sheet

Date of issue / /

Your company name

● Contact ● Quantity set(s) ● Delivery date month day

Slip No. Order No.

Contact

Order no.

● Manifold model no.

M **G^A_B2** **0R-** **-** **-** **-** **-** **-** **-** **3**
 Type of solenoid valve Valve Position Port size Serial transmission Terminal and connector pin array Option Mount type Station no. Voltage

Solenoid valve model no.			Fitting CX		Valve installation position																Quantity
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
4G	2	9R																			
4G	2	9R																			
4G	2	9R																			
4G	2	9R																			
4G	2	9R																			
3G	2	9R																			
3G	2	9R																			
Masking plate 4G2R-MP (S) -																					
Masking plate 4G2R-MP (D) -																					
Air supply spacer 4G2R-P-																					
In stop valve spacer 4G2R-IS																					
Exhaust spacer 4G2R-R-																					
Spacer type pilot check valve 4G2R-PC-M																					
Mounting Rail	L2 =	Attached Part	Blanking plug								Thread plug				Silencer						
			GWP4-B				GWP6-B				4G2R-06P				SLW-8S		SLW-8A				
			GWP8-B				GWP10-B														

● Wiring specifications (This is not required for standard wiring and double wiring. Complete these specifications when designating the wiring sequence and extra cables)

Connector pin no.				Installation position																			
T8*				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
T8G1	CC-Link	NPN	16 points	1																			
T8G2			32 points	2																			
T8GP1		PNP	16 points	3																			
T8GP2			32 points	4																			
T8P1	PROFIBUS-DP	NPN	16 points	5																			
T8P2			32 points	6																			
T8PP1		PNP	16 points	7																			
T8PP2			32 points	8																			
T8EC1	EtherCAT	NPN	16 points	9																			
T8EC2			32 points	10																			
T8ECP1		PNP	16 points	11																			
T8ECP2			32 points	12																			
T8EN1	EtherNet/IP	NPN	16 points	13																			
T8EN2			32 points	14																			
T8ENP1		PNP	16 points	15																			
T8ENP2			32 points	16																			
				17																			
				18																			
				19																			
				20																			
				21																			
				22																			
				23																			
				24																			
				25																			
				26																			
				27																			
				28																			
				29																			
				30																			
				31																			
				32																			

M4G3 Serial transmission type Thin type

M4G^A_B3-T8 manifold specification sheet

Date of issue / /

Your company name

● Contact ● Quantity set(s) ● Delivery date month day

Slip No. Order No.

Contact

Order no.

● Manifold model no.

M **G^A_B3** **0R-** **3**

Type of solenoid valve Valve Position Port size Serial transmission Terminal and connector pin array Option Mount type Station no. Voltage

Solenoid valve model no.			Fitting CX		Valve installation position																Quantity
			A	B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
4G	3	9R-																			
4G	3	9R-																			
4G	3	9R-																			
4G	3	9R-																			
4G	3	9R-																			
3GA3		9R-																			
3GA3		9R-																			
Masking plate 4G3R-MP (S) -																					
Masking plate 4G3R-MP (D) -																					
Air supply spacer 4G3R-P-																					
In stop valve spacer 4G3R-IS																					
Exhaust spacer 4G3R-R-																					
Mounting Rail	L ₂ =	Attached Part	Blanking plug									Thread plug			Silencer						
			GWP6-B		GWP8-B		GWP10-B		4G3R-08P			SLW-10A		SLW-10L							
*Fill in the integral multiple of 12.5.																					

● Wiring specifications (This is not required for standard wiring and double wiring. Complete these specifications when designating the wiring sequence and extra cables)

Connector pin no.				Installation position																	
T8*				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
T8G1	CC-Link	NPN	16 points	1																	
T8G2			32 points	2																	
T8GP1		PNP	16 points	3																	
T8GP2			32 points	4																	
T8P1	PROFIBUS-DP	NPN	16 points	5																	
T8P2			32 points	6																	
T8PP1		PNP	16 points	7																	
T8PP2			32 points	8																	
T8EC1	EtherCAT	NPN	16 points	9																	
T8EC2			32 points	10																	
T8ECP1		PNP	16 points	11																	
T8ECP2			32 points	12																	
T8EN1	EtherNet/IP	NPN	16 points	13																	
T8EN2			32 points	14																	
T8ENP1		PNP	16 points	15																	
T8ENP2			32 points	16																	
				17																	
				18																	
				19																	
				20																	
				21																	
				22																	
				23																	
				24																	
				25																	
				26																	
				27																	
				28																	
				29																	
				30																	
				31																	
				32																	