

3, 5 port pilot operated valve 4GA/B • 4GD/E R Series



3,5 PORT PILOT OPERATED VALVE 4GA/B 4GD/E R Series

**User Friendly.
Upgraded Performance.**



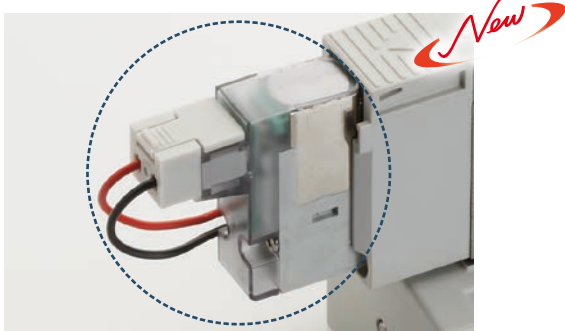
New 4G! Start!

The new 4G is further evolved while inheriting the conventional 4G series concept. It starts here.

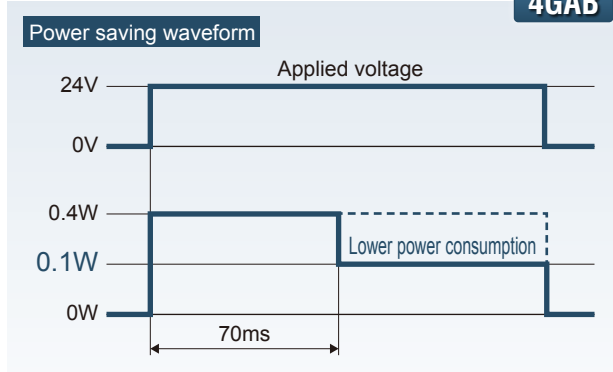
| | |
|---|--|
| Power consumption 0.1w Minimal heat generated with integrated energy saving circuit 4GAB | Power consumption 0.35w Standard products |
|---|--|

Power Consumption

Continuous energization OK (single solenoid type)
Improved Solenoid Design. **4GAB**



Lower power consumption **4GAB**

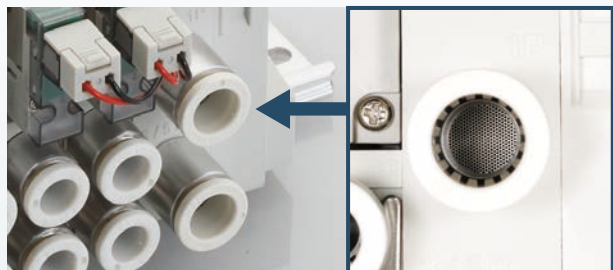


Safety

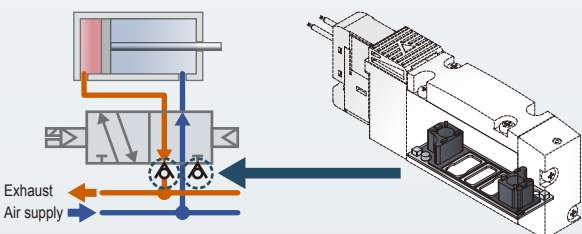
Manual override protection
Manual override with protective covers.



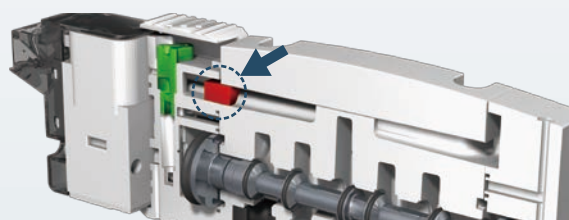
Contamination prevention
Filter standard equipment
(Available on A and B ports as an option)

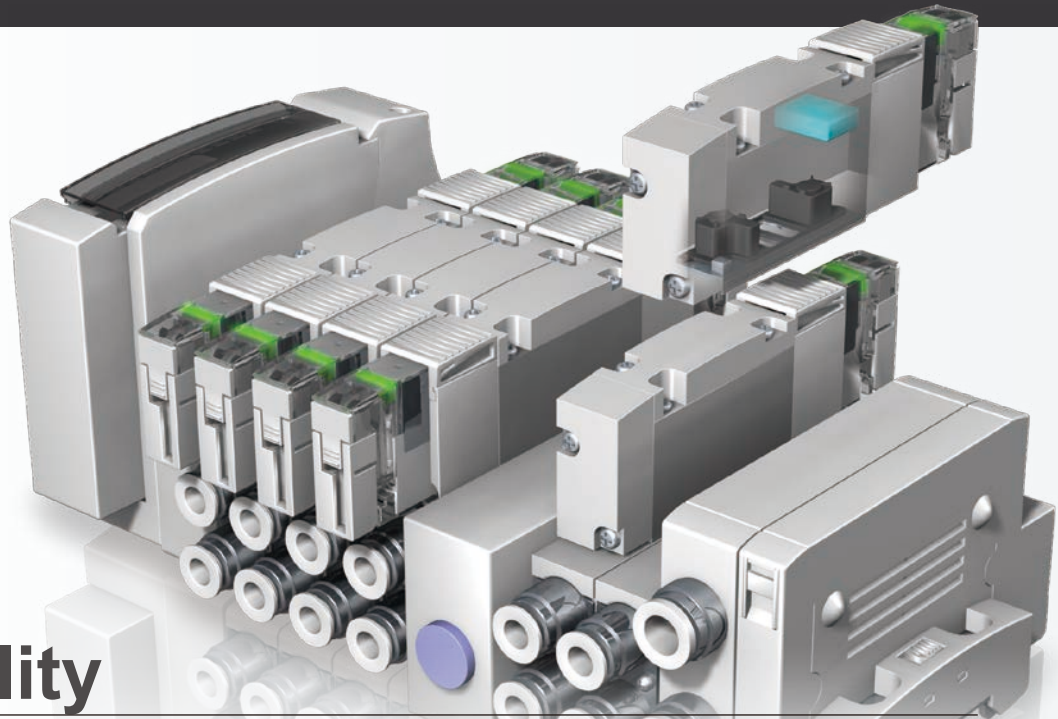


Potential for exhaust back-pressure eliminated.
Exhaust malfunction prevention valve.
Standard feature in both metal and plastic base designs.



Internal pilot filter is standard equipment.





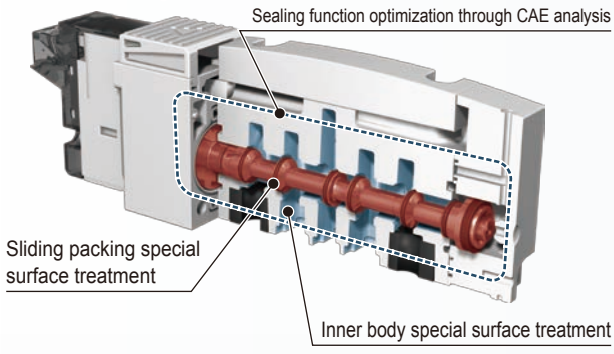
Reliability

Low friction design with improved life cycle rating
 Excellent response time and long life achieved with the main spool. **4GAB**

New

Life Rating
100 million cycles or more
 Single solenoid, through our predetermined conditions
4GAB

Response time
12±2ms
 4G1 test results

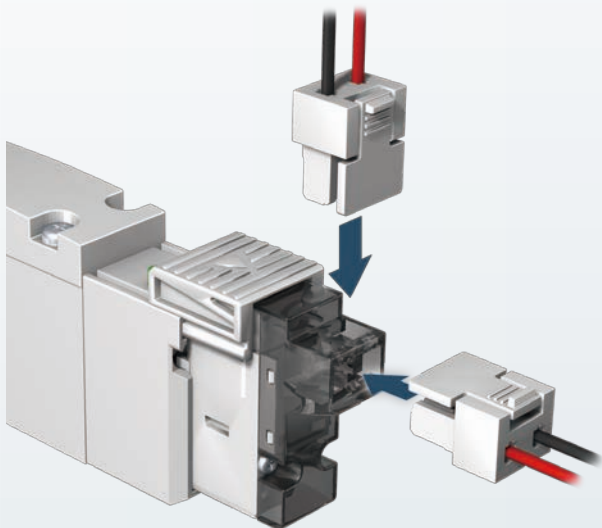


Improved response even after weekend shutdown

Smooth start-up even after a prolonged shut-down. **4GAB**

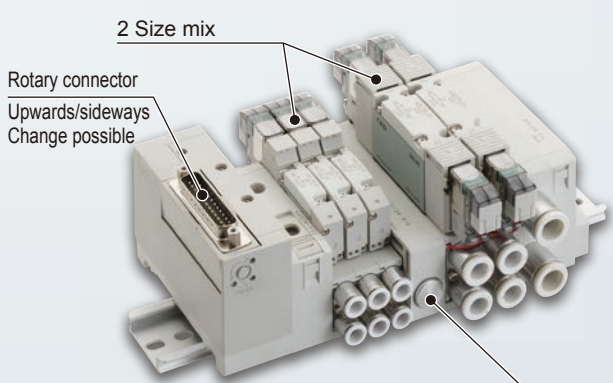
Flexible Functionality

Two-way wiring connector of top or side.
 Wire connection orientation is easily adjusted in the field.



Manifold flexibility

Manifolds can include a mixture of valve sizes and port sizes.



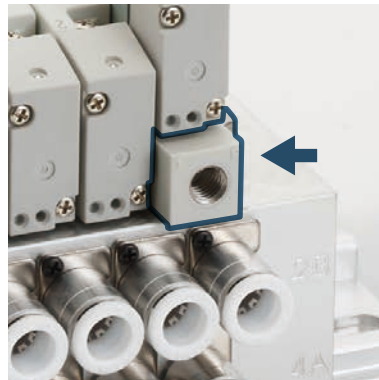
Manifolds can include a mixture of valve sizes and port sizes

Variety of options



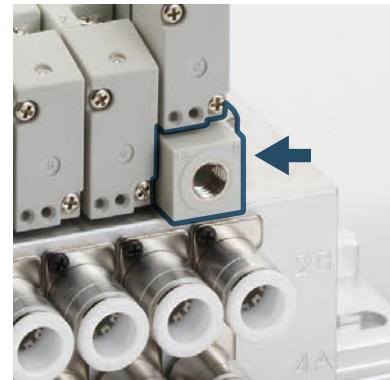
Individual Valve shut-off

Valves are individually replaceable without stopping operation of the production line!



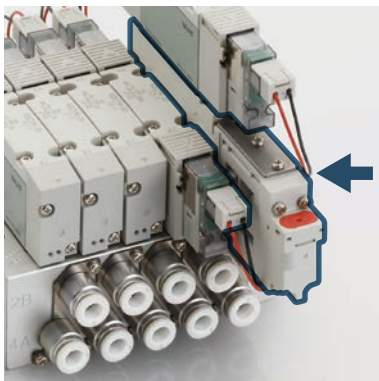
Individual supply spacer

Ideal for cylinder thrust adjustment in the individual valve pressure increase/decrease!



Exhaust spacer

Prevent malfunction of Single-acting cylinders in the individual exhaust!



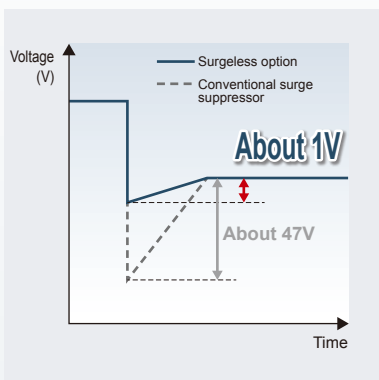
Pilot check valve spacer

For intermediate valve stoppage. Provides a short-term positive lock of a double-acting cylinder



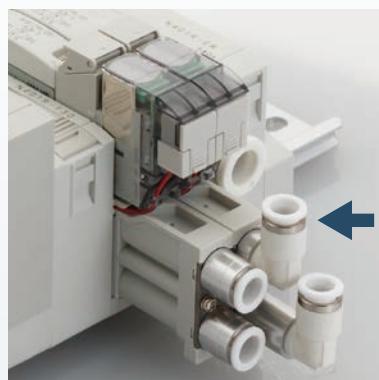
More valve porting options

4G1 now includes 8mm tubing (C8)
4G2 now includes 10mm tubing



Surge Protection

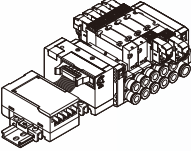



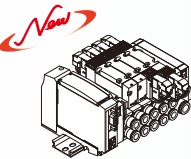


The coil surge voltage is reduced about 1V to protect the output contacts!



Elbow fitting option for block manifold

Improve the flexibility of valve installation with the addition of piping direction

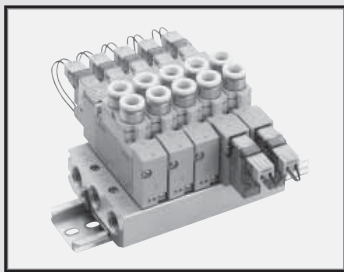
Automation communication protocols supported

| | | CC-Link | Compo Bus/S | S-LINK | Uniwire H system | Device Net | SAVE NET | Compo Net | PROFI BUS-DP | Ether CAT | EtherNet /IP |
|---|------------------------------------|--|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|  | OPP3 Output 8/16points |   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| | OPP4 Output 8/16points Thin type | |  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
|  | OPP7 Output 16/32 points Thin type |   | <input checked="" type="checkbox"/> | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Applications/environment table

| | | Multi function type 4GA/B R | Standard type 4GD/E R |
|-------------|---|---------------------------------------|---------------------------------|
| Reliability | Air quality | | |
| | Ultra-dry air • N2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Dry air | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Oil contaminated air/ low ozone | <input type="checkbox"/> | <input type="checkbox"/> |
| | Drain air | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Countermeasure for the use after weekend shutdown | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Low vacuum support | <input type="checkbox"/> | |
| Safety | Exhaust malfunction prevention function | <input type="checkbox"/> | <input type="checkbox"/> |
| | Manual override protective cover | <input type="checkbox"/> | <input type="checkbox"/> |
| | Built-in contamination protection | <input type="checkbox"/> | <input type="checkbox"/> |
| Usability | 90 degree elbow quick to connect fittings | <input type="checkbox"/> | |
| | External pilot | <input type="checkbox"/> | |
| | Two-way wiring connector of top/side | <input type="checkbox"/> | <input type="checkbox"/> |
| | Manual operation without tools | <input type="checkbox"/> | <input type="checkbox"/> |

Recommended



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.



4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

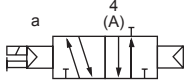
Technical data

Safety
precautions

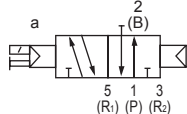
Manifold
Specifications

JIS symbol

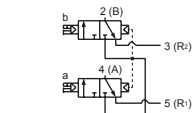
- 3 port valve
2-position single N.C. type



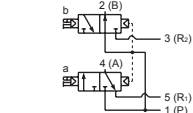
- 2-position single N.O. type



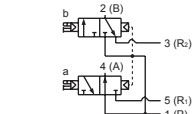
- Dual 3 port valve integrated type
(A side valve: N.C. type, B side valve: N.C. type)



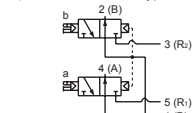
- (A side valve: N.C. type, B side valve: N.O. type)



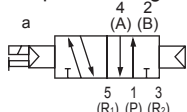
- (A side valve: N.O. type, B side valve: N.C. type)



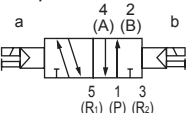
- (A side valve: N.O. type, B side valve: N.O. type)



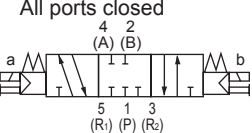
- 5 port valve
2-position single



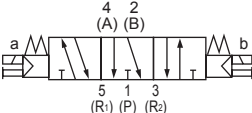
- 2-position double



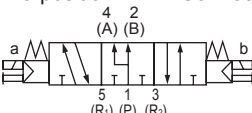
- 3-position
All ports closed



- 3-position A/B/R Connection



- 3-position P/A/B Connection



Manifold common specifications

| Descriptions | | Integrated base |
|---------------------------------------|----------------|--|
| 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 | | 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 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 |

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 | 20 stations | 16 stations | 20 stations | 16 stations |
| Port size | Rc thread, M5 | A/B port | $\phi 1.8$ Barbed fitting 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 | | |
| | NPT thread, M5 | A/B port | Push-in fitting $\phi 1.8$ $\phi 5/32$ M5 | Push-in fitting $\phi 1/4$ $\phi 5/16$ 1/8NPT | Push-in fitting $\phi 5/16$ $\phi 1/8$ 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 $\phi 4, \phi 6$ 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 | 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 $S \doteq 5.0 \times C$.

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.

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

| | | 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.

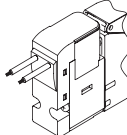
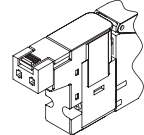
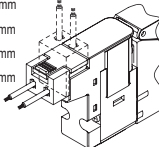
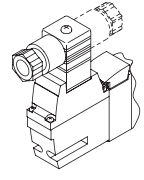
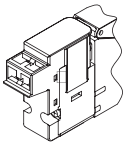
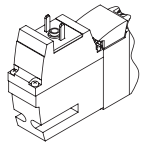
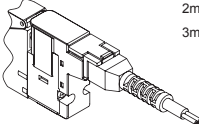
Note 11 Combination with the external pilot (K) is not available.

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 | B | DIN terminal box |
| ● 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 |  | | |

4GAB

M4GA/B

MN4GA/B

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

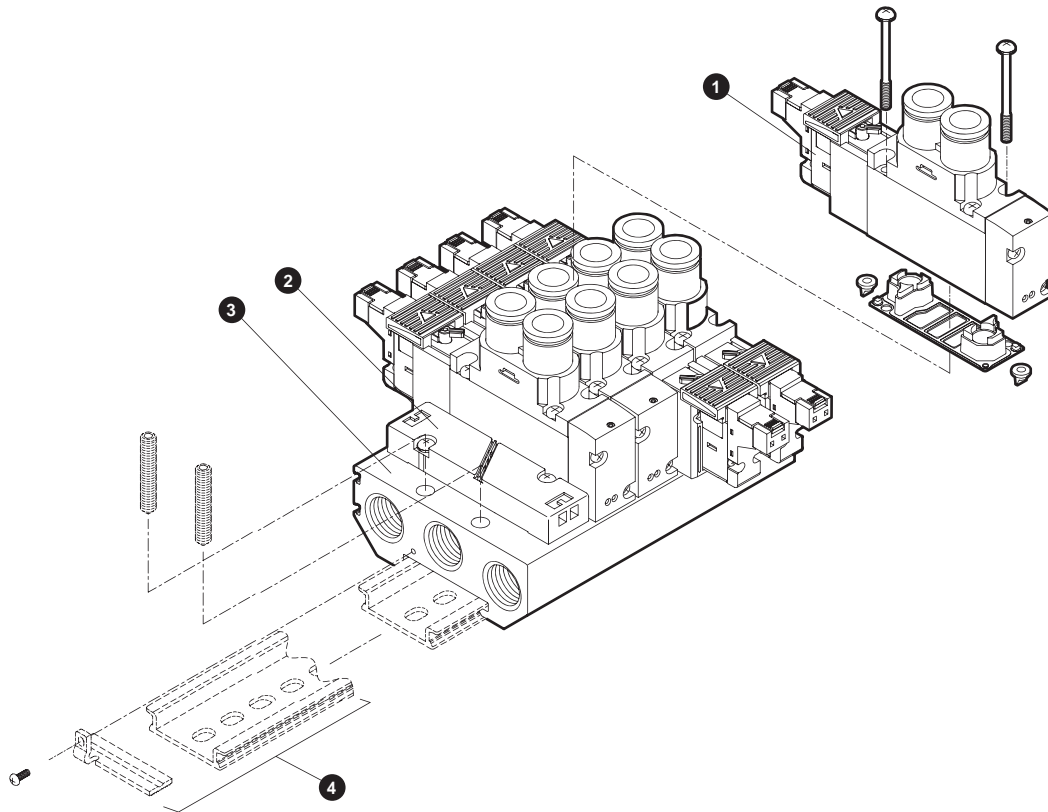
Safety
precautions

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 (D) Electrical connections on page79 | - | 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 φ1/8 straight type 4G1R-JOINT-C6 φ5/32 straight type 4G1R-JOINT-C4N 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-C6 φ1/4 straight type 4G2R-JOINT-C6N φ5/16 straight type 4G2R-JOINT-C8N Plug cartridge 4G2R-JOINT-CPG |
| - | EJ 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 φ5/16 straight type 4G3R-JOINT-C8N φ3/8 straight type 4G3R-JOINT-C10N Plug cartridge 4G3R-JOINT-CPG |

MEMO

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

M4GA1 Series

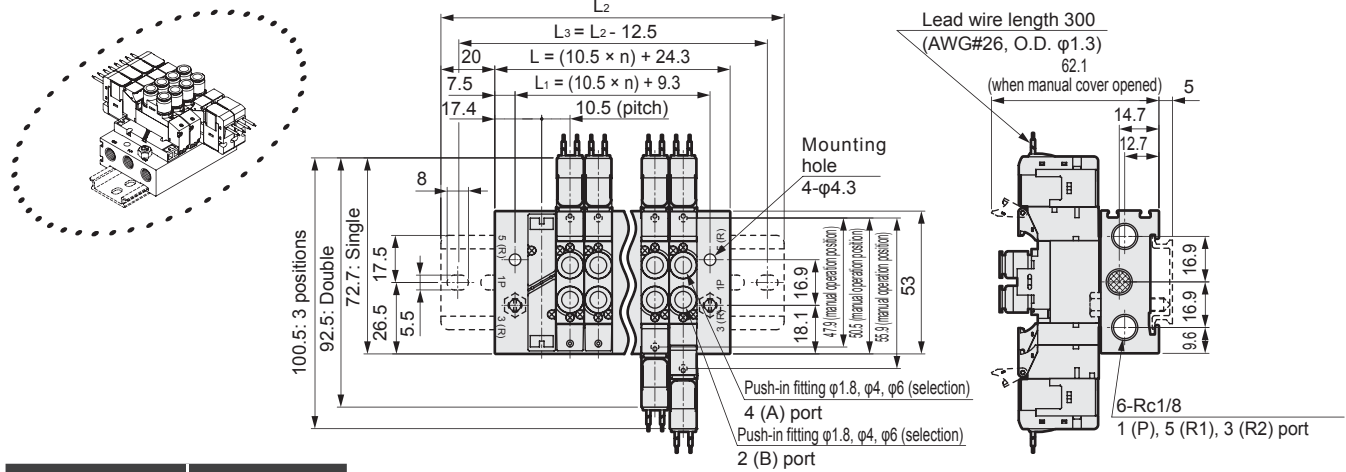
Individual wiring manifold; body piping

Dimensions 

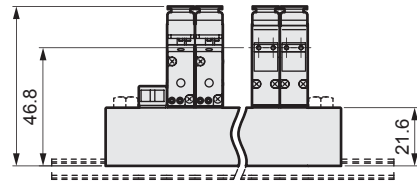
M4GA1

- Grommet lead wire (blank)

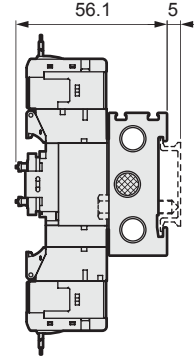
*For 2-position single 3 port valve, the port A or port B is a plug.
The dimension of dual 3 port valve integrated type is the same as that of the double type.



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

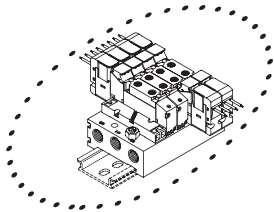


- φ1.8 barbed fitting type (CF)

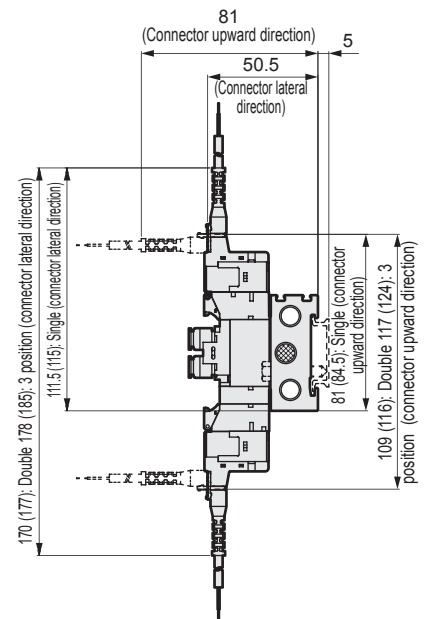
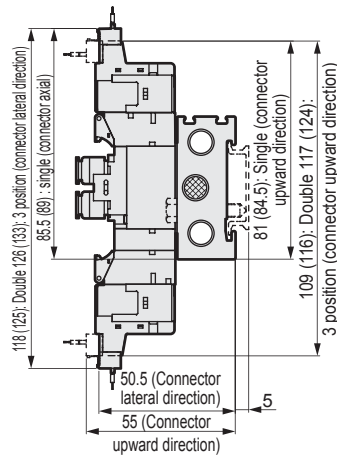
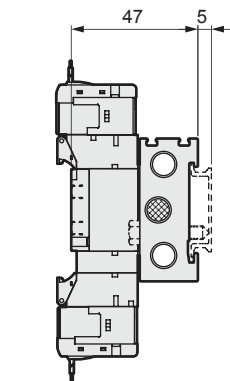
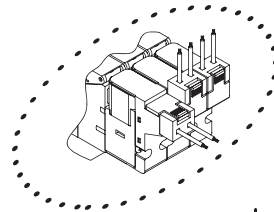


- EJ type connector type (E**J)

- M5 female thread type (M5)



- E type connector type (E)



Note: Values in () apply for 100 VAC.

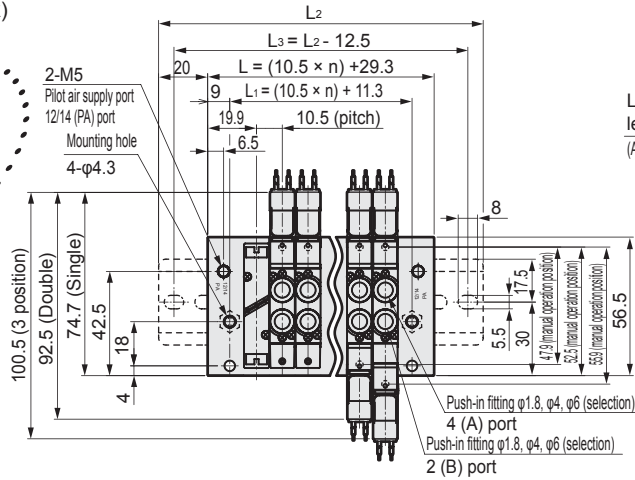
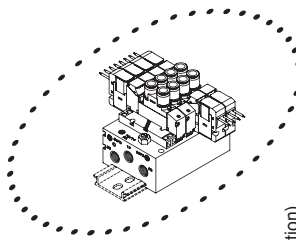
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 45.3 | 55.8 | 66.3 | 76.8 | 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 | 150.0 | 162.5 | 175.0 | 187.5 | 200.0 | 212.5 | 212.5 | 225.0 | 237.5 | | | | |
| L ₃ | 75.0 | 87.5 | 100.0 | 112.5 | 125.0 | 137.5 | 137.5 | 150.0 | 162.5 | 175.0 | 187.5 | 200.0 | 200.0 | 212.5 | 225.0 | | | | |

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

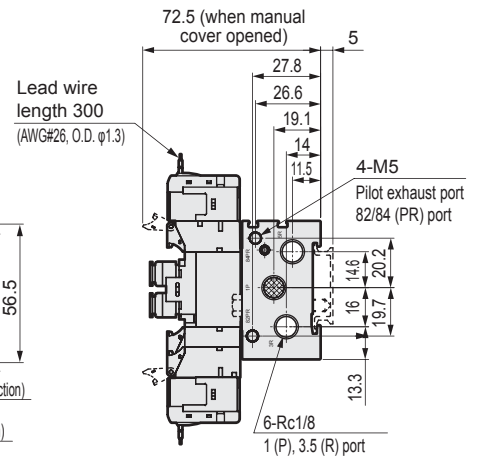
Dimensions

M4GA1

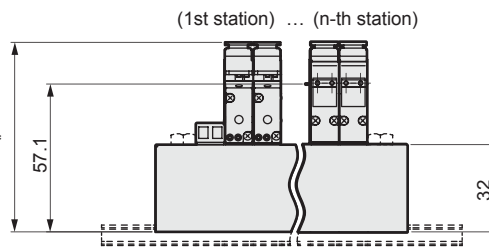
- External pilot (K)
Grommet lead wire (blank)



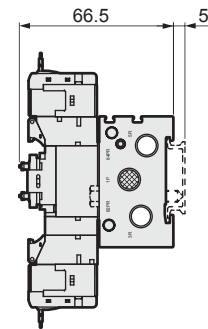
*For 2-position single 3 port valve, the port A or port B is a plug.



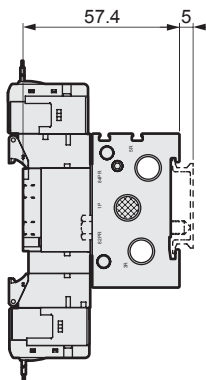
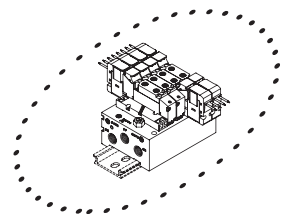
| Push-in fitting Port size | * Dimensions |
|---------------------------|--------------|
| φ1.8 | 64.4 |
| φ4 | 68.4 |
| φ6 | 69.6 |
| φ1/8 | 68.9 |
| φ5/32 | 68.4 |



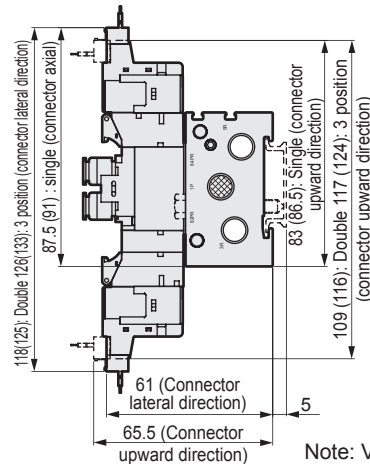
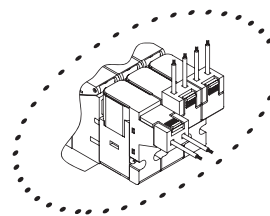
- φ1.8 barbed fitting type (CF)



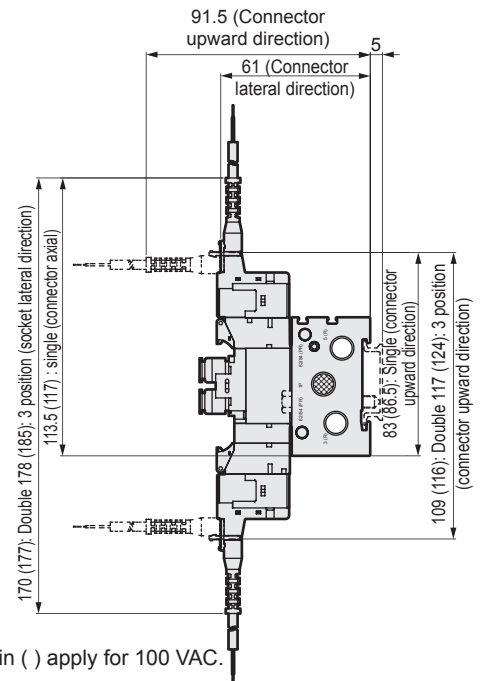
- External pilot (K)
M5 female thread type (M5)



- 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 |

M4GA2 Series

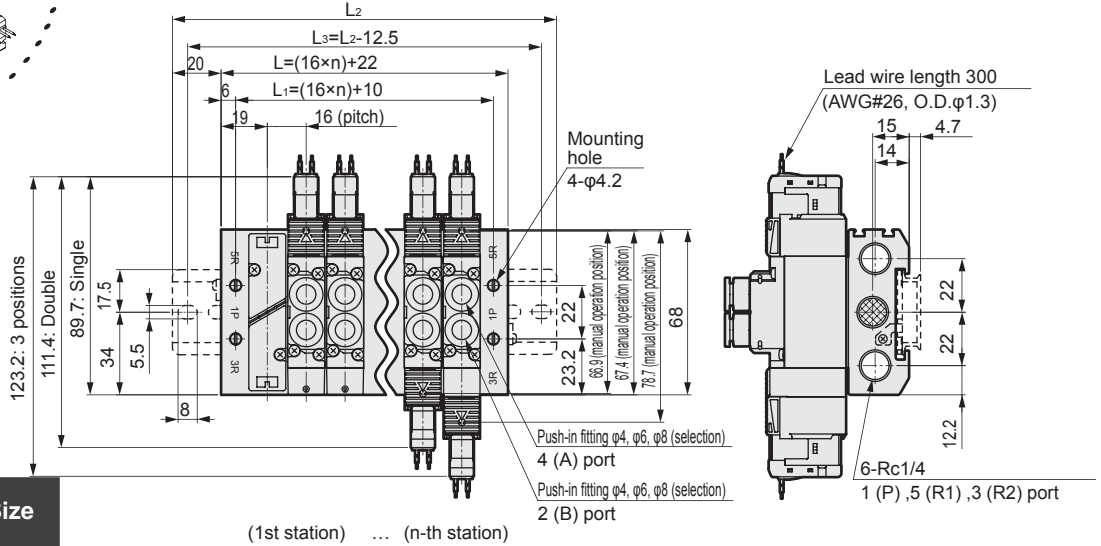
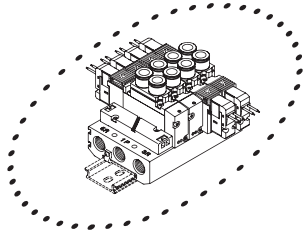
Individual wiring manifold; body piping

Dimensions 

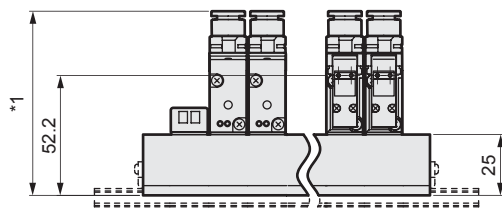
M4GA2

- 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.

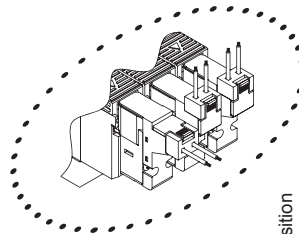
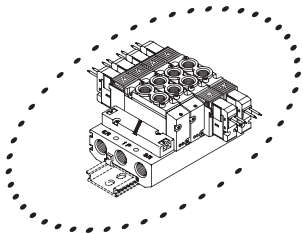


| Push-in fitting Port size | *1 Size |
|---------------------------|---------|
| φ4 | 76 |
| φ6 | |
| φ8 | |
| φ1/4 | 76.9 |
| φ5/16 | 76.2 |

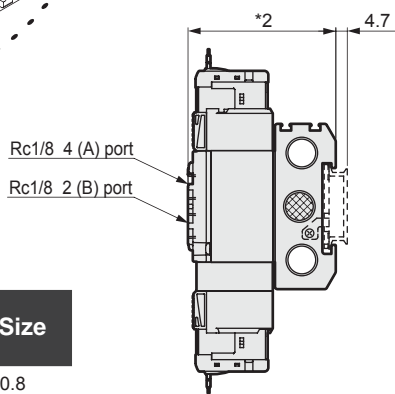


- Rc1/8 female thread type (06)

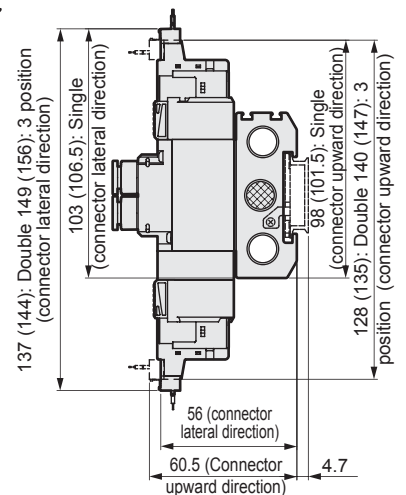
- E type connector type (E)



Note: Values in () apply for 100 VAC



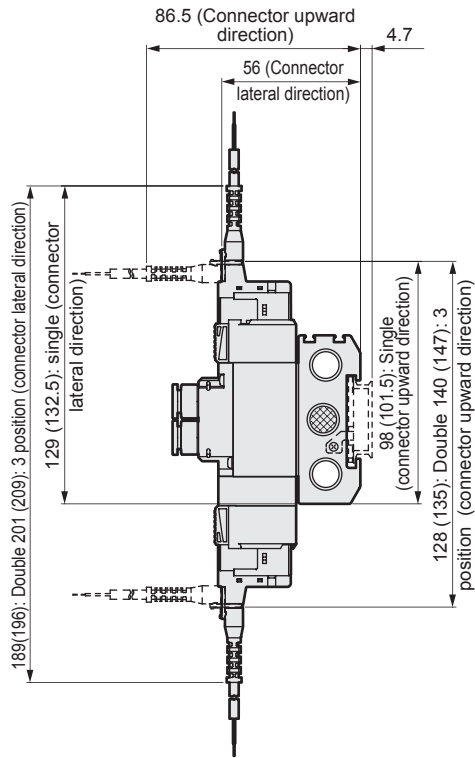
| Female thread size | *2 Size |
|--------------------|---------|
| Rc1/8 | 60.8 |
| 1/8NPT | 62.1 |
| G1/8 | |



| 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 | | | | |

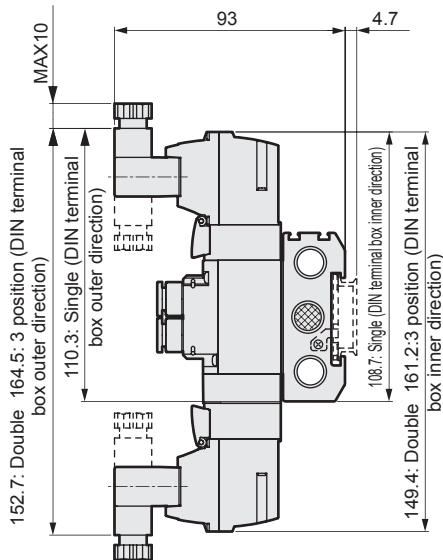
Dimensions

- 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.

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GA2 Series

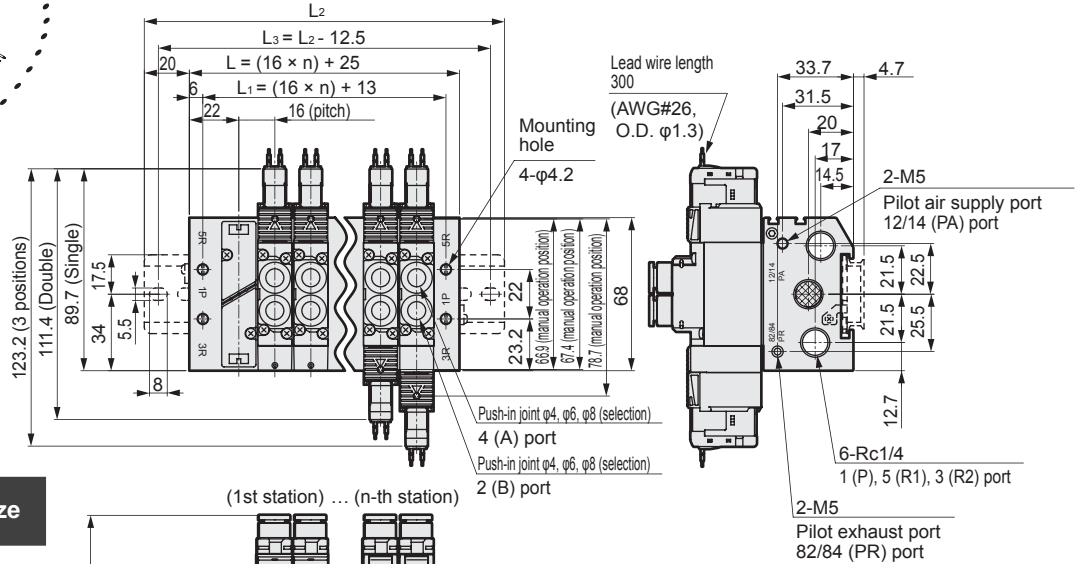
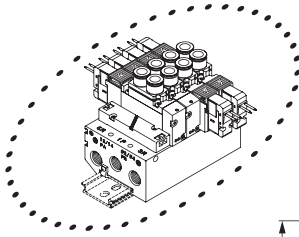
Individual wiring manifold; body piping

Dimensions 

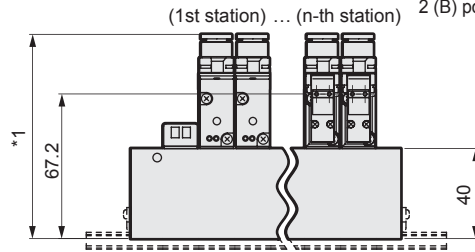
M4GA2

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

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

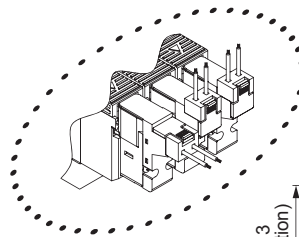
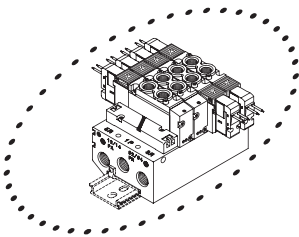


| Push-in fitting Port size | *1 Size |
|---------------------------|---------|
| φ4 | 91 |
| φ6 | |
| φ8 | |
| φ1/4 | 91.9 |
| φ5/16 | 91.2 |

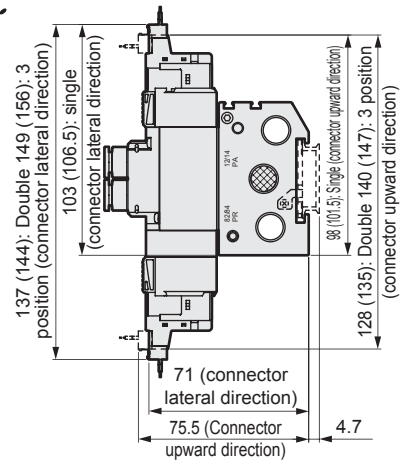
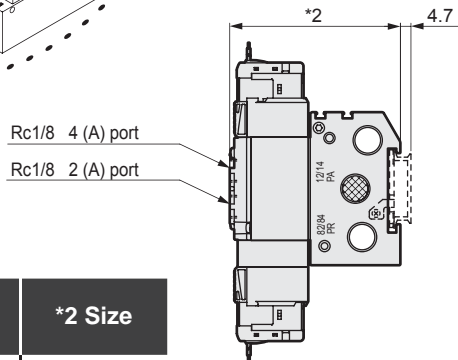


- External pilot (K)
Rc1/8 female thread type (06)

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



Note: Values in () apply for 100 VAC.

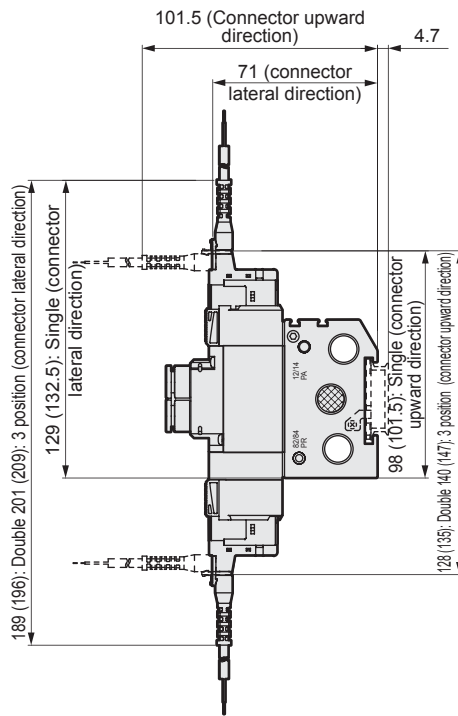


| Female thread size | *2 Size |
|--------------------|---------|
| Rc1/8 | 75.8 |
| 1/8NPT | 77.1 |
| G1/8 | |

| 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 | | | | |

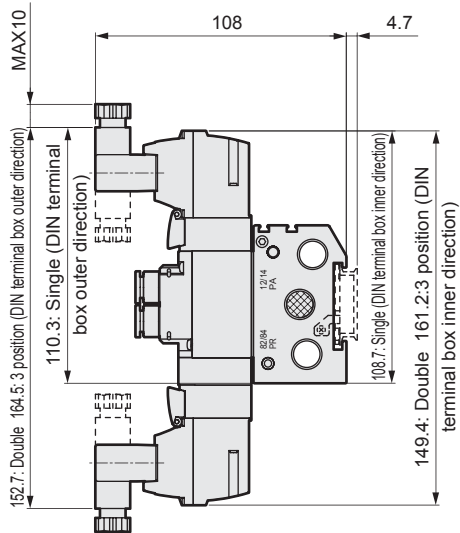
Dimensions

- 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.

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GA3 Series

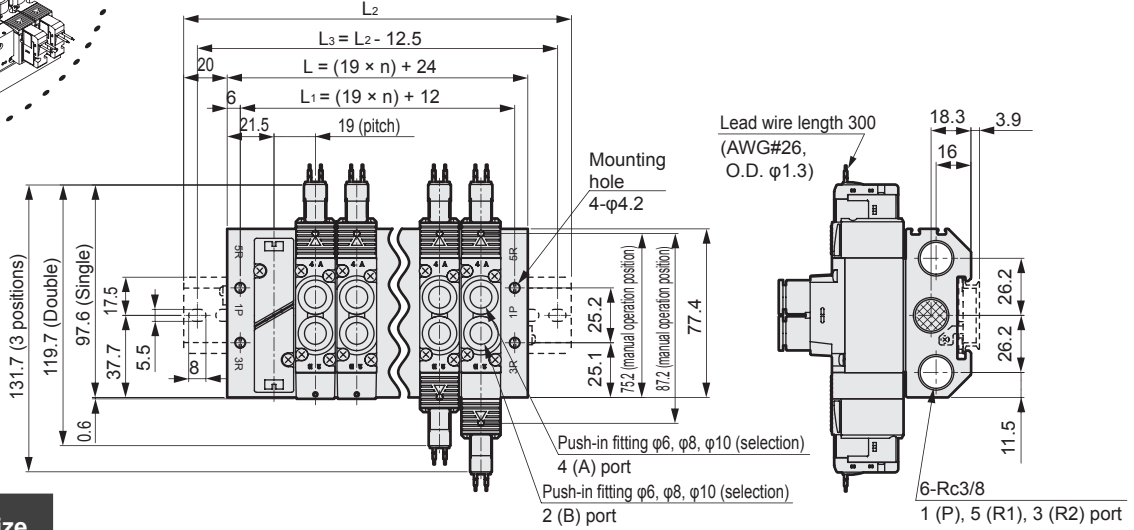
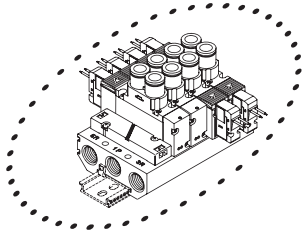
Individual wiring manifold; body piping

Dimensions 

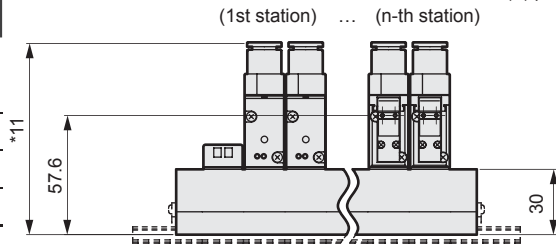
M4GA3

- Grommet lead wire (blank)

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

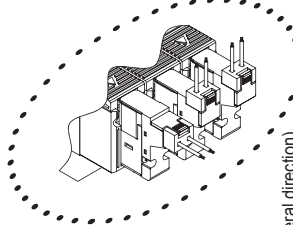
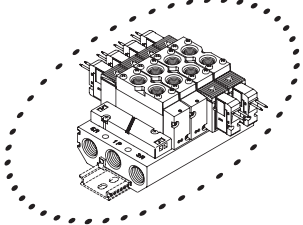


| Push-in fitting Port size | *1 Size |
|---------------------------|---------|
| $\phi 6$ | 82.8 |
| $\phi 8$ | |
| $\phi 10$ | 88.3 |
| $\phi 5/16$ | 89 |
| $\phi 3/8$ | 92.2 |



- Rc1/4 female thread type (08)

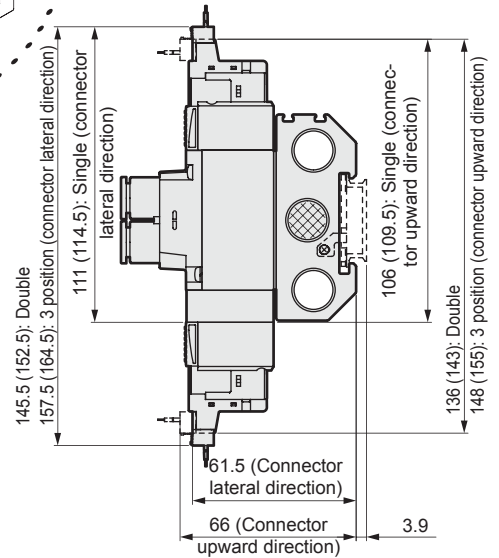
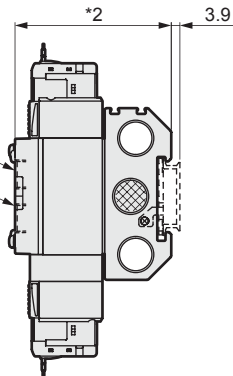
- E type connector type (E)



Note: Values in () apply for 100 VAC.

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

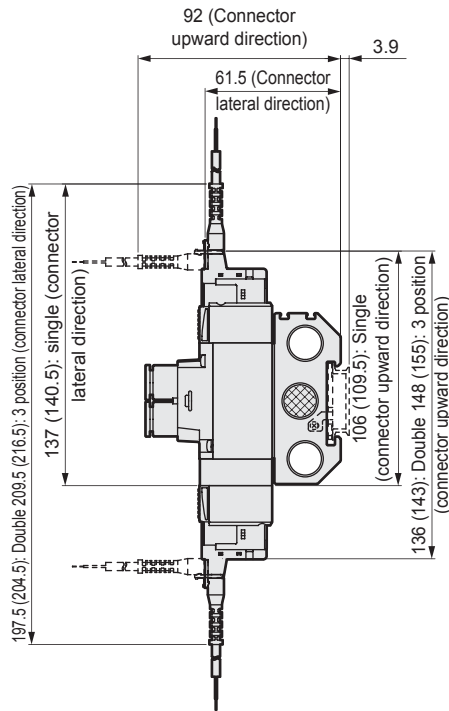
| Female thread size | *2 Size |
|--------------------|---------|
| Rc1/4 | 70.4 |
| 1/4NPT | 70.9 |



| 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 | | | | |

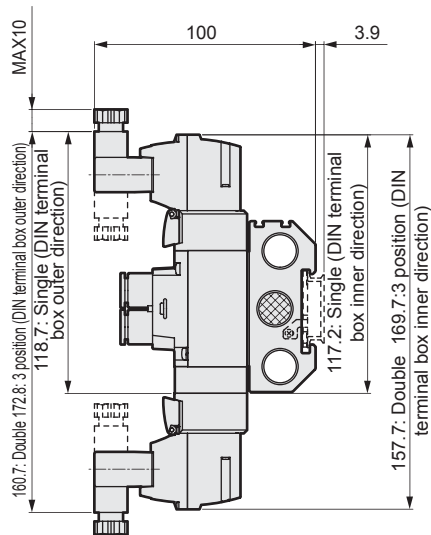
Dimensions

- 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.

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GA3 Series

Individual wiring manifold; body piping

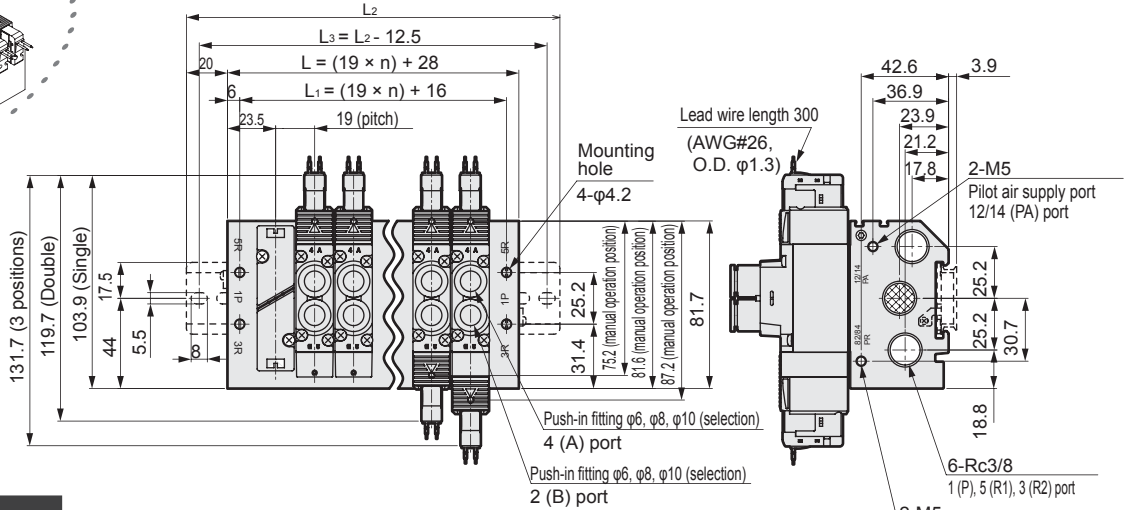
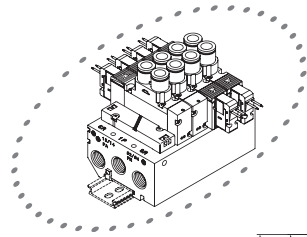
Dimensions



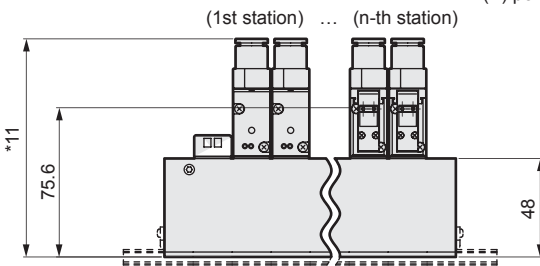
M4GA3

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

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

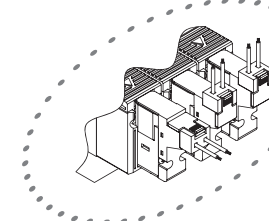
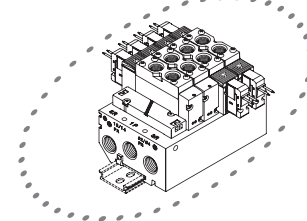


| Push-in fitting Port size | *1 Size |
|---------------------------|---------|
| $\phi 6$ | 100.8 |
| $\phi 8$ | 106.3 |
| $\phi 10$ | 107 |
| $\phi 5/16$ | 110.2 |
| $\phi 3/8$ | |

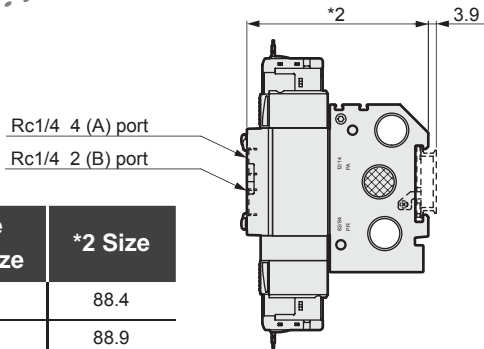


- External pilot (K)
Rc1/4 female thread type (08)

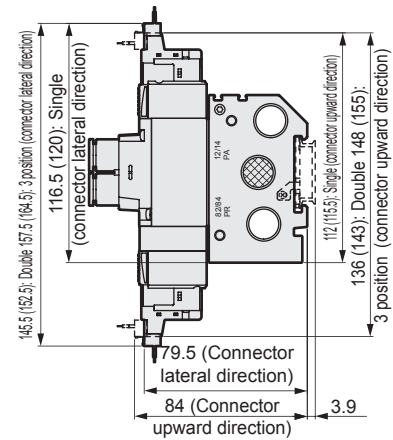
- External pilot (K)
E type connector type (E)



Note: Values in () apply for 100 VAC



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

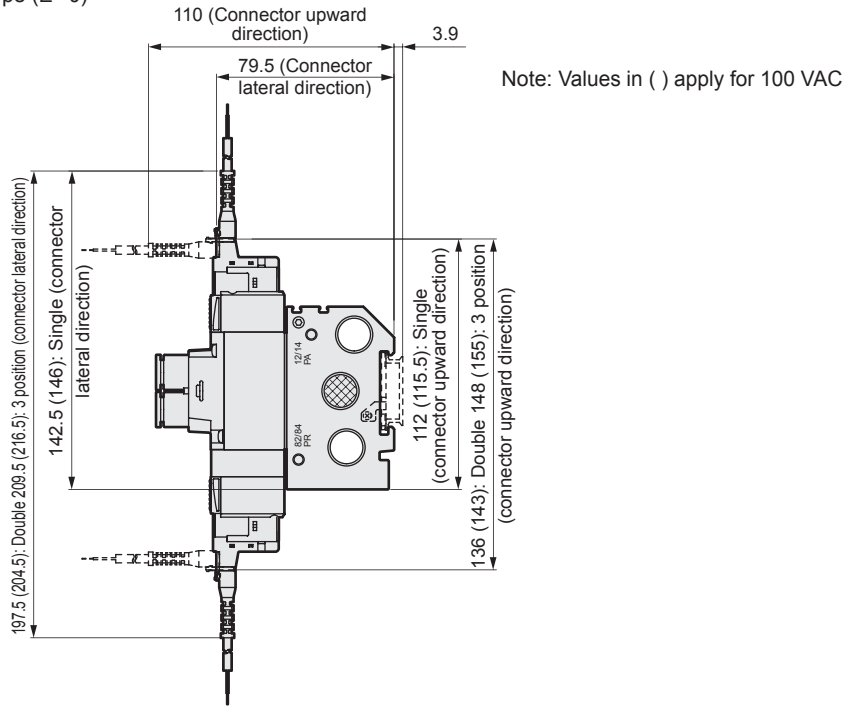


| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 66.0 | 85.0 | 104.0 | 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 | | | | |

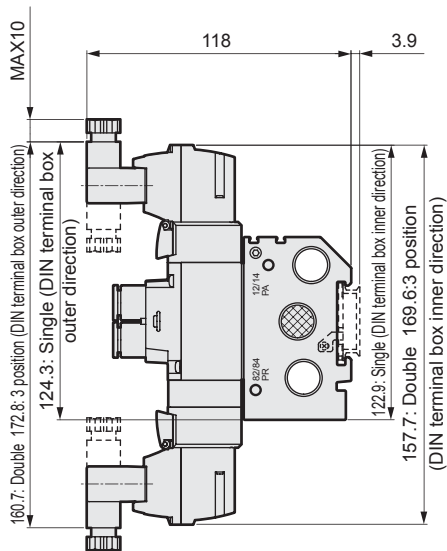
4GAB
M4GA/B
MN4GA/B
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

Dimensions

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



- 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

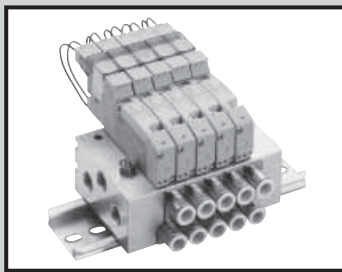
M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications



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.



4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

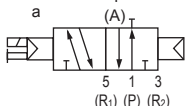
Technical data

Safety
precautions

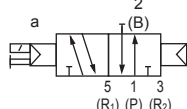
Manifold
Specifications

JIS symbol

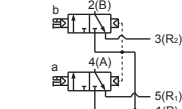
- 3 port valve
2-position single N.C. type



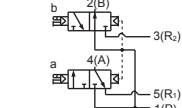
2-position single N.O. type



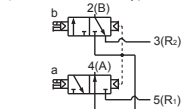
- Dual 3 port valve integrated type
(A side valve: N.C. type, B side valve: N.C. type)



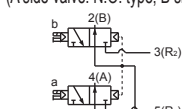
(A side valve: N.C. type, B side valve: N.O. type)



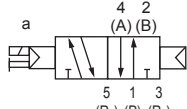
(A side valve: N.O. type, B side valve: N.C. type)



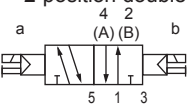
(A side valve: N.O. type, B side valve: N.O. type)



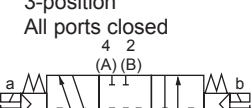
- 5 port valve
2-position single



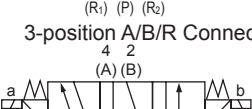
2-position double



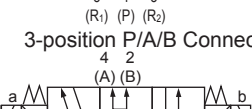
3-position
All ports closed



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 | Rc thread, M5 | 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 | - | - |
| | NPT thread, M5 | 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) | - | - |
| G thread, M5 | 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 | 115n+119 |
| | External pilot | 35n+106 | 36n+114 | 76n+135 | 78n+166 | 118n+194 | 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 (E) 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

M4GAB

MN4GAB

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).

| Symbol | Descriptions | 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 A/B/R connection | | | ● | ● | ● |
| 5 | 3-position P/A/B connection | | | ● | ● | ● |
| 66 | Dual 3 port valve integrated type | A side valve: Normally closed | ● | ● | | |
| | | B side valve: Normally closed | | | | |
| 67 | Note 1, 2 | A side valve: Normally closed | ● | ● | | |
| | | B side valve: Normally open | | | | |
| 76 | | A side valve: Normally open | ● | ● | | |
| | | B side valve: Normally closed | | | | |
| 77 | | A side valve: Normally open | ● | ● | | |
| | | B side valve: Normally open | | | | |
| 8 | Mix manifold (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) | (3) | (2) | (3) | (4) | |
| C10 | φ10 push-in fitting (3) | | (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) (3) | | | | (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) | (4) | |
| CD10 | L type φ10 push-in fitting (downward) (3) | | | | (4) | |
| CX | Push-in fitting mix (2) | (3) | (2) | (3) | (4) | |
| M5 | M5 (2) | | | (2) | | |
| 06 | Rc1/8 (3) | | | (3) | | |
| 08 | Rc1/4 (3) | | | | (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) | | |
| C8N | φ5/16 inch push-in fitting (6) | | | (6) | (7) | |
| C10N | φ3/8 inch push-in fitting (6) | | | | (7) | |
| CL3N | L type φ1/8 inch push-in fitting (upward) (5) | | | (5) | | |
| CL4N | L type φ5/32 inch push-in fitting (upward) (5) | | | (5) | | |
| CL6N | L type φ1/4 inch push-in fitting (upward) (6) | | | (6) | | |
| CL8N | L type φ5/16 inch push-in fitting (upward) (6) | | | (6) | | |
| CXN | Push-in fitting mix (5) | (6) | (5) | (6) | (7) | |
| M5N | M5 (5) | | | (5) | | |
| 06N | 1/8NPT (6) | | | (6) | | |
| 08N | 1/4NPT (6) | | | | (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) | | |
| CL4G | L type φ4 push-in fitting (upward) (8) | | | (8) | | |
| CL6G | L type φ6 push-in fitting (upward) (8) | | | (8) | (9) | |
| CL8G | L type φ8 push-in fitting (upward) (9) | | | (9) | | |
| CXG | Push-in fitting mix (8) | (9) | (8) | (9) | | |
| M5G | M5 (8) | | | (8) | | |
| 06G | G1/8 (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.

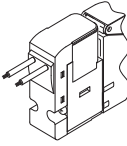
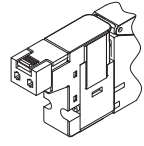
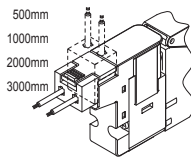
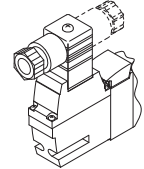
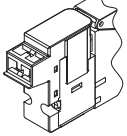
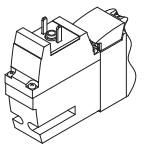
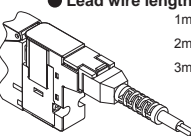
Note 15 The direct mount type of M4GB1 cannot be changed to the DIN rail mount type after purchase.

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 | B | DIN terminal box |
| ● 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-connector | | |
| ● Lead wire length 1m 2m 3m |  | | |

4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

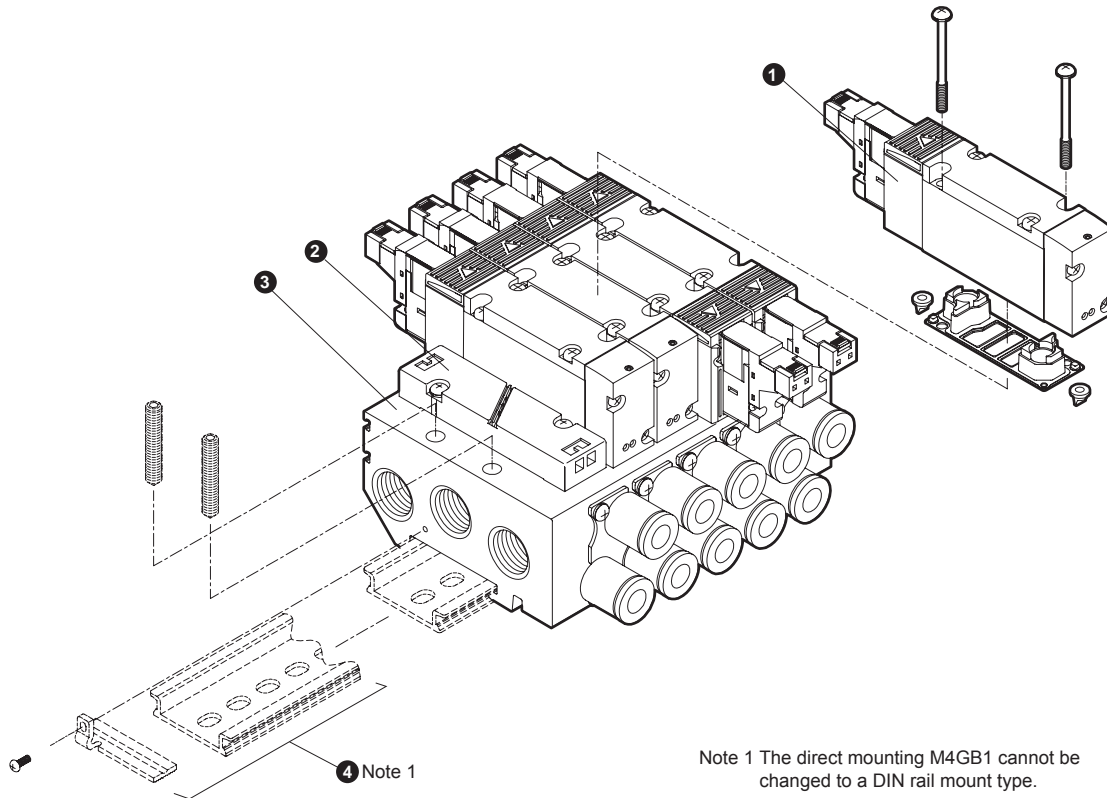
Safety
precautions

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 - <input type="text"/> Electrical connections <input type="text"/> Option - <input type="text"/> Voltage <input type="text"/> Valve Position <input type="text"/> 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 - <input type="text"/> Electrical connections <input type="text"/> Option - <input type="text"/> D <input type="text"/> Station no. <input type="text"/> Series flow rate size <input type="text"/> 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 |

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

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 (D) | - | Cartridge type push-in fitting and related parts | φ1.8 barbed type 4G1R-JOINT-CF | |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection - Voltage | - | | 4G1 | φ1.8 straight type 4G1R-JOINT-C18 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | φ4 straight type 4G1R-JOINT-C4 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | φ6 straight type 4G1R-JOINT-C6 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | φ8 straight type 4G1R-JOINT-C8 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | φ1.8 elbow type 4G1R-JOINT-CL18, CLL18 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | φ4 elbow type 4G1R-JOINT-CL4, CLL4 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | φ6 elbow type 4G1R-JOINT-CL6, CLL6 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | φ1/8 inch Straight type 4G1R-JOINT-C3N |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | φ5/32 inch Straight type 4G1R-JOINT-C4N |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | φ1/8 inch elbow type Note 1 4G1R-JOINT-CL3N |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | φ5/32 inch elbow type Note 1 4G1R-JOINT-CL4N |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G1 | Plug cartridge 4G1R-JOINT-CPG |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | φ4 straight type 4G2R-JOINT-C4 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | φ6 straight type 4G2R-JOINT-C6 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | φ8 straight type 4G2R-JOINT-C8 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | φ10 straight type Note 2 4G2R-JOINT-C10 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | φ6 elbow type 4G2R-JOINT-CL6, CLL6 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | φ8 elbow type 4G2R-JOINT-CL8, CLL8 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | φ1/4 inch straight type 4G2R-JOINT-C6N |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | φ5/16 inch straight type 4G2R-JOINT-C8N |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | φ1/4 inch elbow type Note 1 4G2R-JOINT-CL6N |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | φ5/16 inch elbow type Note 1 4G2R-JOINT-CL8N |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G2 | Plug cartridge 4G2R-JOINT-CPG |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G3 | φ6 straight type 4G3R-JOINT-C6 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G3 | φ8 straight type 4G3R-JOINT-C8 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G3 | φ10 straight type 4G3R-JOINT-C10 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G3 | φ8 elbow type 4G3R-JOINT-CL8, CLL8 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G3 | φ10 elbow type 4G3R-JOINT-CL10, CLL10 |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G3 | φ5/16 inch straight type 4G3R-JOINT-C8N |
| - | E type connector Socket assembly | 4GR-SOCKET-ASSY- Electric wire Connection | - | | 4G3 | φ3/8 inch straight type 4G3R-JOINT-C10N |

Note 1: Available consult factory order.

Note 2: These are common parts with the φ10 straight type for the 4G3.

4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

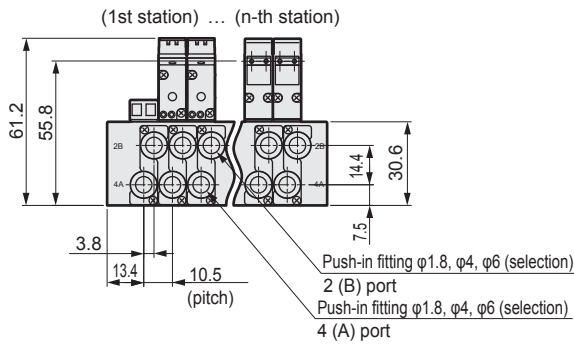
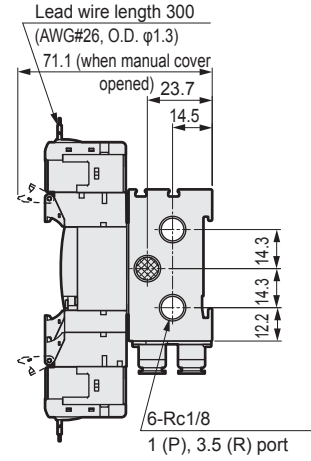
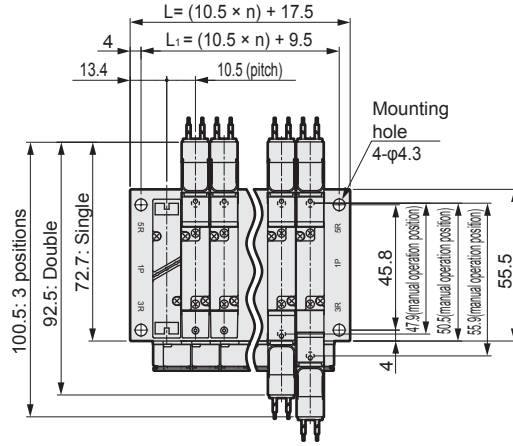
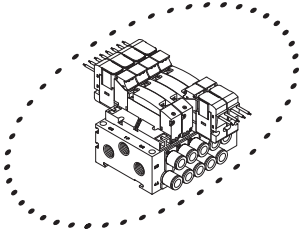
M4GB1 Series

Individual wiring manifold; base piping

Dimensions 

M4GB1

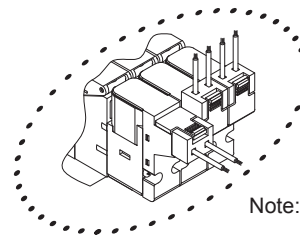
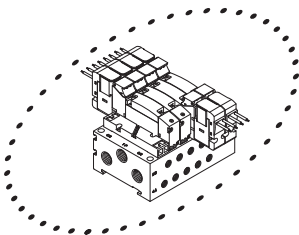
- Direct mount installation
- Grommet lead wire (blank)



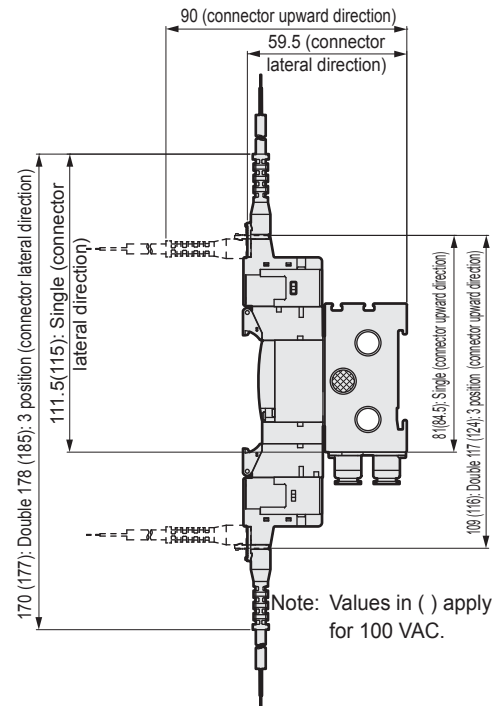
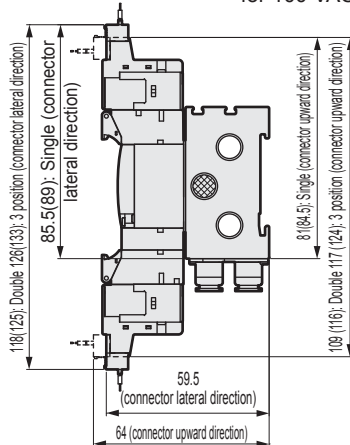
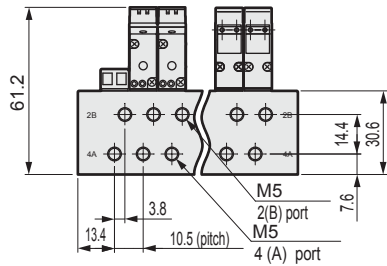
- M5 female thread type (M5)

- E type connector type (E)

- EJ type connector type (E**J)



Note: Values in () apply for 100 VAC.



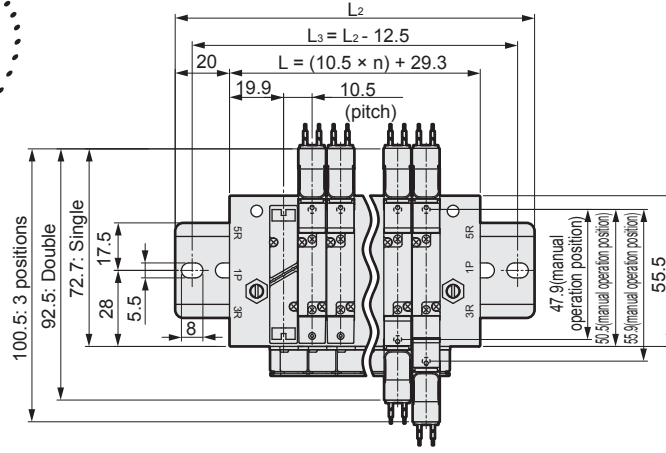
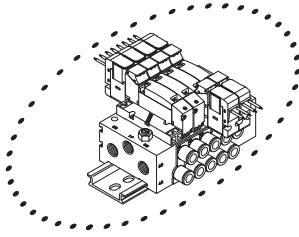
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 38.5 | 49.0 | 59.5 | 70.0 | 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

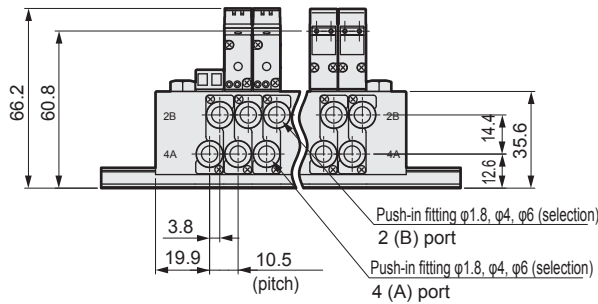
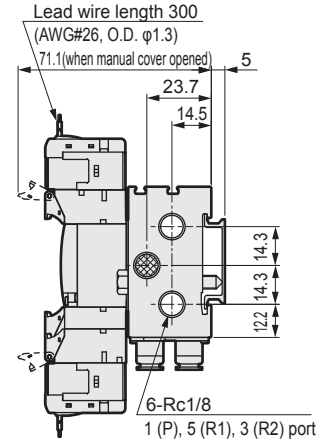


M4GB1

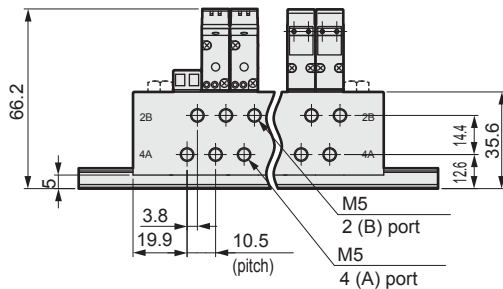
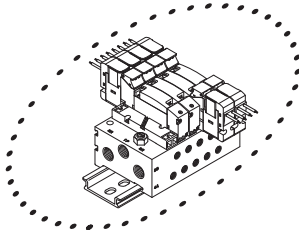
- DIN rail installation (D)
Grommet lead wire (blank)



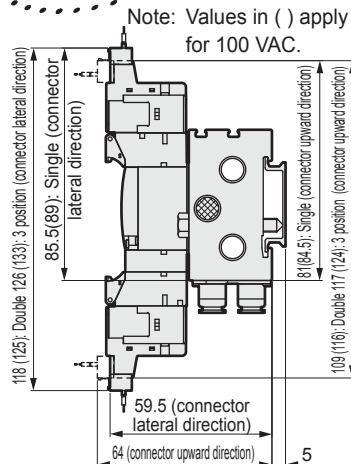
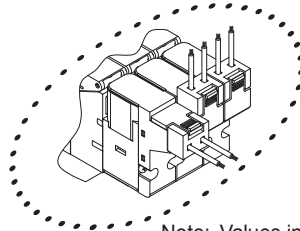
(1st station) ... (n-th station)



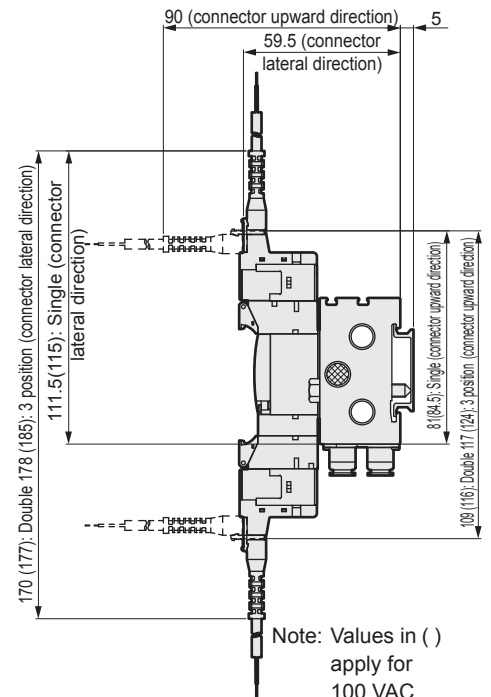
- DIN rail installation (D)
M5 female thread type (M5)



- 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 |

M4GB1 Series

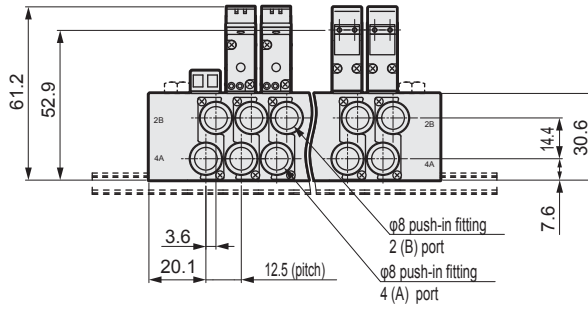
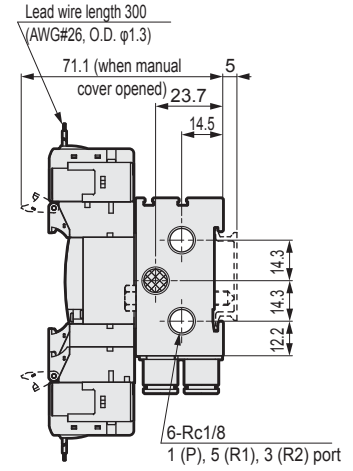
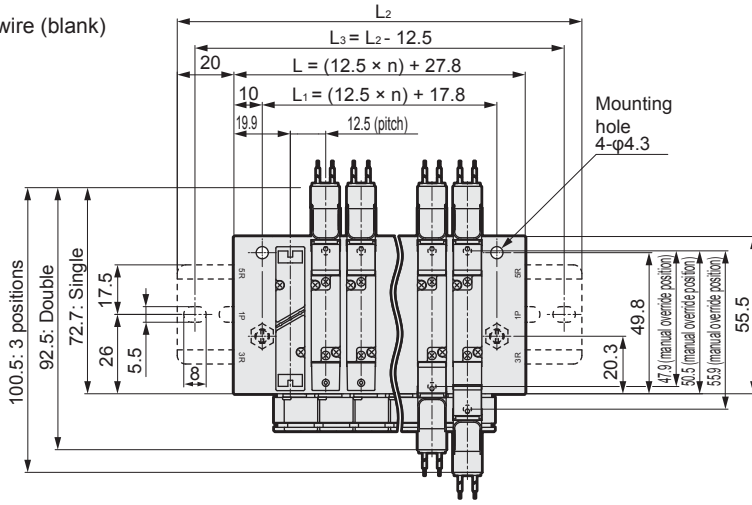
Individual wiring manifold; base piping

Dimensions



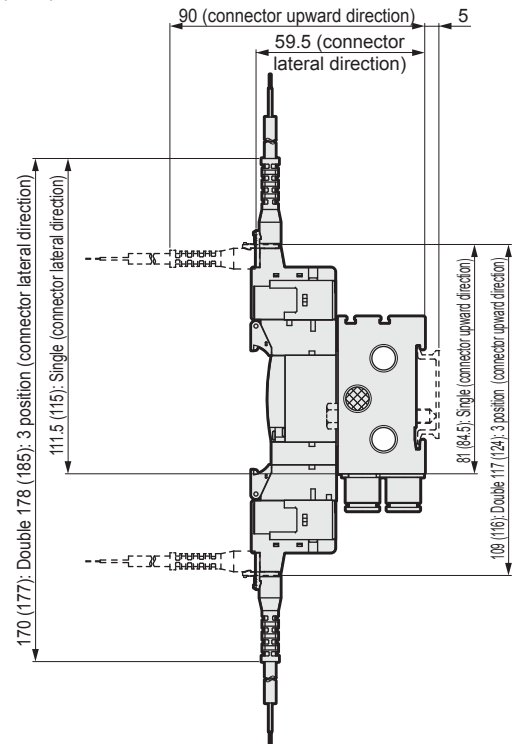
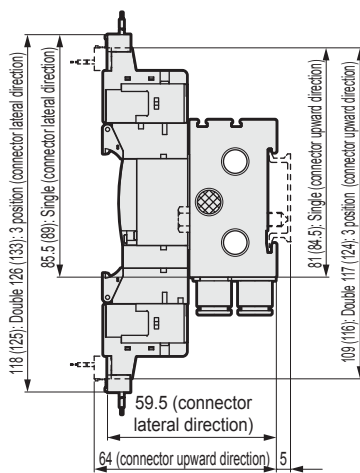
M4GB1-C8

- 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 | 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 | | | | |

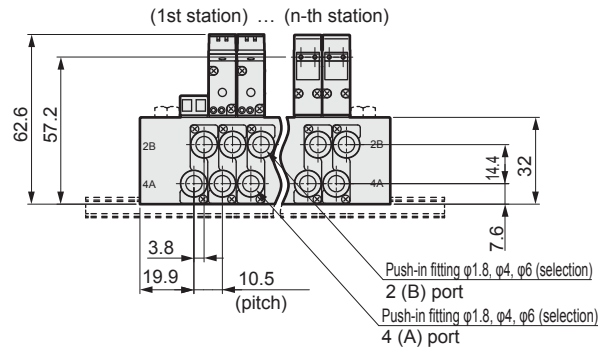
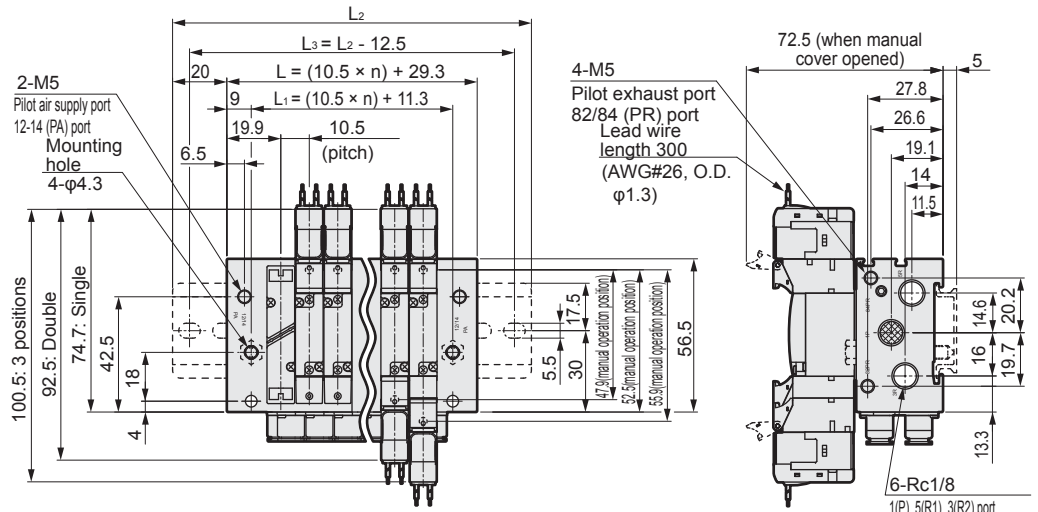
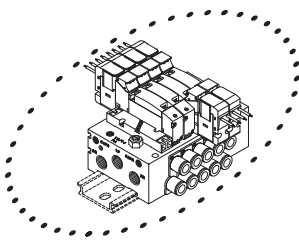
4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

Dimensions

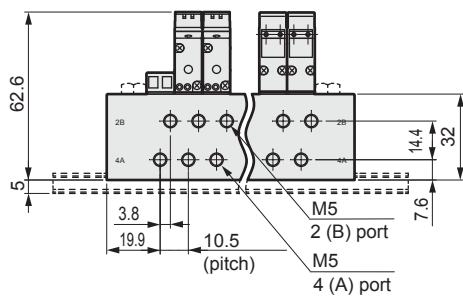
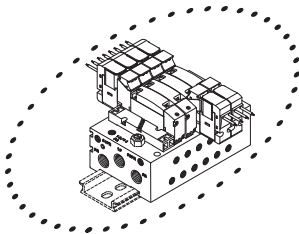


M4GB1

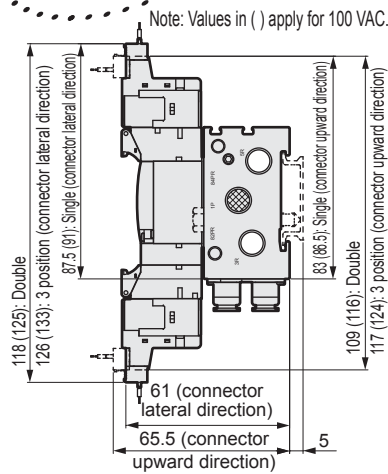
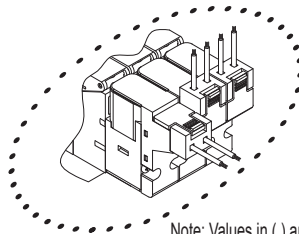
- External pilot (K)
Grommet lead wire (blank)



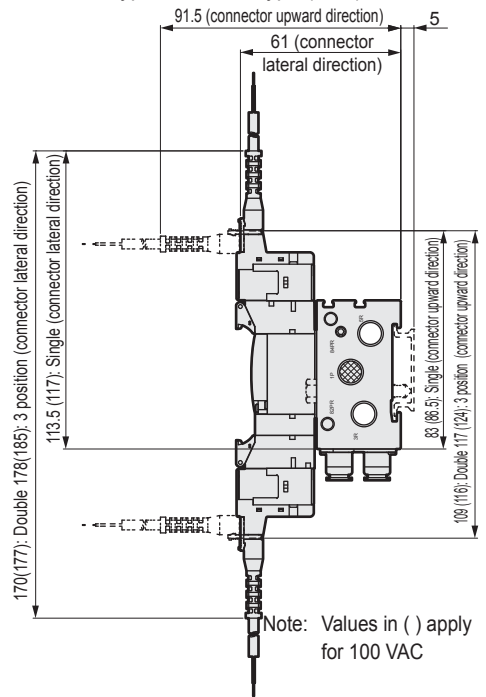
- External pilot (K)
M5 female thread type (M5)



- 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 |

4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GB1 Series

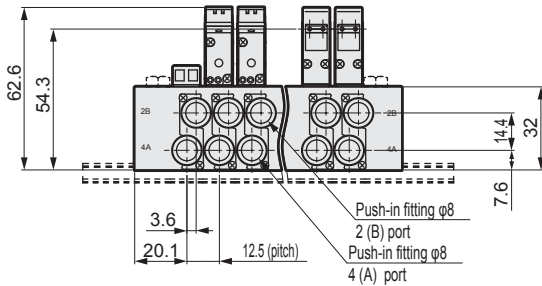
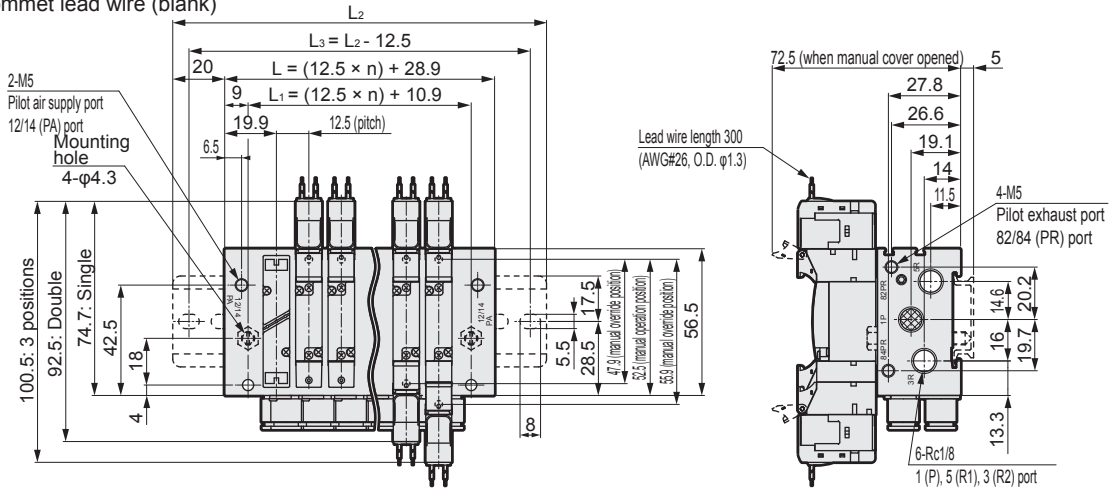
Individual air supply wiring manifold; base piping

Dimensions

M4GB1-C8-K

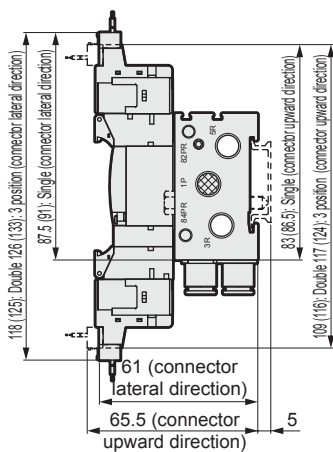
- External pilot (K)

Grommet lead wire (blank)



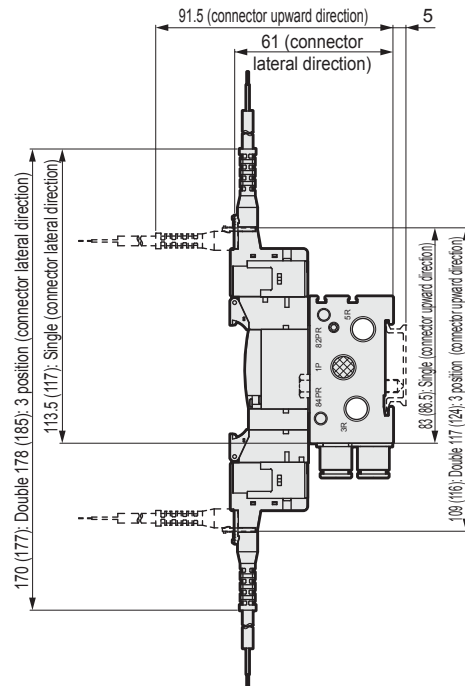
- External pilot (K)

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

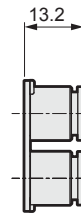
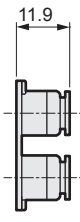
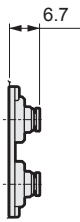
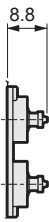
● $\phi 1.8$ (CF)

● $\phi 1.8$ (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)

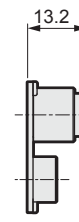
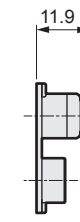
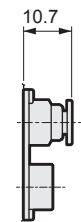
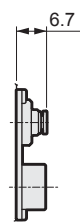
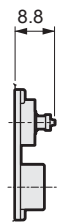
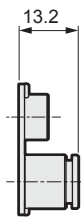
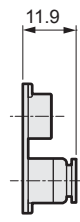
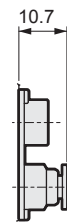
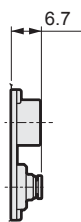
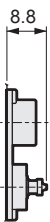
● $\phi 1.8$ (CFNO)

● $\phi 1.8$ (C18NO)

● $\phi 4$ (C4NO)

● $\phi 6$ (C6NO)

● $\phi 8$ (C8NO)



● Fitting L type (upward)

● $\phi 1.8$ (CL18)

● $\phi 4$ (CL4)

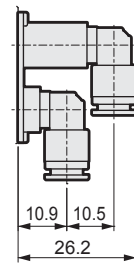
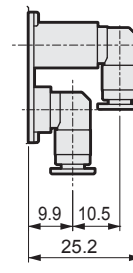
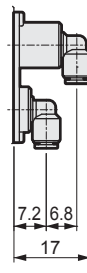
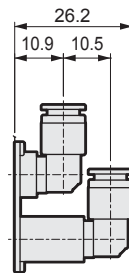
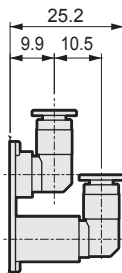
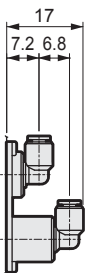
● $\phi 6$ (CL6)

● Fitting L type (downward)

● $\phi 1.8$ (CD18)

● $\phi 4$ (CD4)

● $\phi 6$ (CD6)



● Fitting L type (upward), single plug

● $\phi 1.8$ (CL18NC)

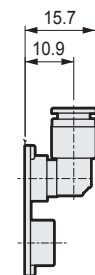
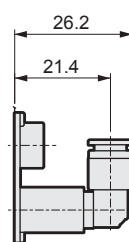
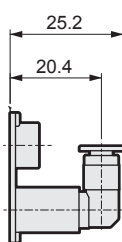
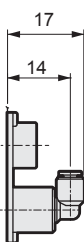
● $\phi 4$ (CL4NC)

● $\phi 6$ (CL6NC)

● $\phi 1.8$ (CL18NO)

● $\phi 4$ (CL4NO)

● $\phi 6$ (CL6NO)



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

● $\phi 1.8$ (CD18NC)

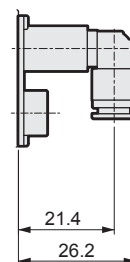
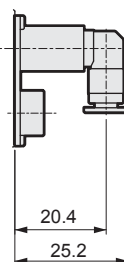
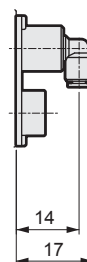
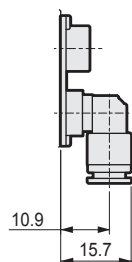
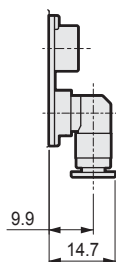
● $\phi 4$ (CD4NC)

● $\phi 6$ (CD6NC)

● $\phi 1.8$ (CD18NO)

● $\phi 4$ (CD4NO)

● $\phi 6$ (CD6NO)



4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

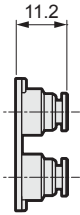
M4GB1 Series

Individual wiring manifold; base piping

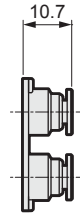
Dimensions

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

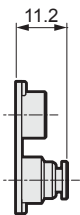
- Fitting straight
- $\phi 1/8$ inch (C3N)



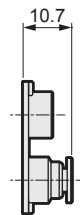
- $\phi 5/32$ inch (C4N)



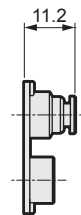
- Fitting straight, single plug
- $\phi 1/8$ inch (C3NCN)



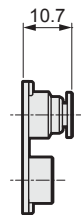
- $\phi 5/32$ inch (C4NCN)



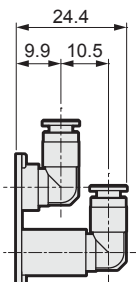
- $\phi 1/8$ inch (C3NON)



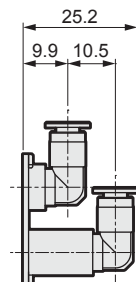
- $\phi 5/32$ inch (C4NON)



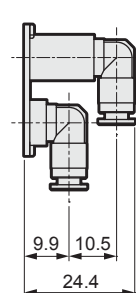
- Fitting L type (upward)
- $\phi 1/8$ inch (CL3N)



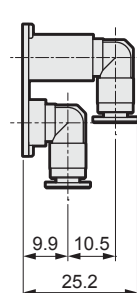
- $\phi 5/32$ inch (CL4N)



- $\phi 1/8$ inch (CD3N)

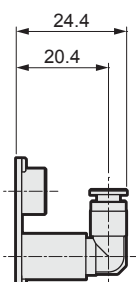


- $\phi 5/32$ inch (CD4N)

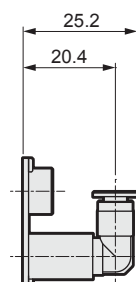


- Fitting L type (upward), single plug

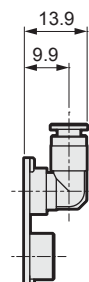
- $\phi 1/8$ inch (CL3NCN)



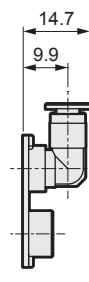
- $\phi 5/32$ inch (CL4NCN)



- $\phi 1/8$ inch (CL3NON)

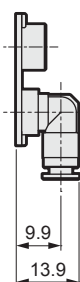


- $\phi 5/32$ inch (CL4NON)

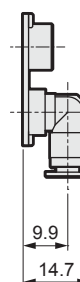


- Push-in fitting L (downward), single plug

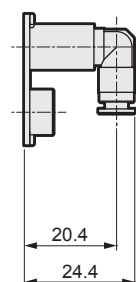
- $\phi 1/8$ inch (CD3NCN)



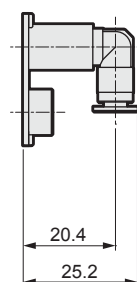
- $\phi 5/32$ inch (CD4NCN)



- $\phi 1/8$ inch (CD3NON)



- $\phi 5/32$ inch (CD4NON)



MEMO

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E


Technical data

Safety
precautions

Manifold
Specifications

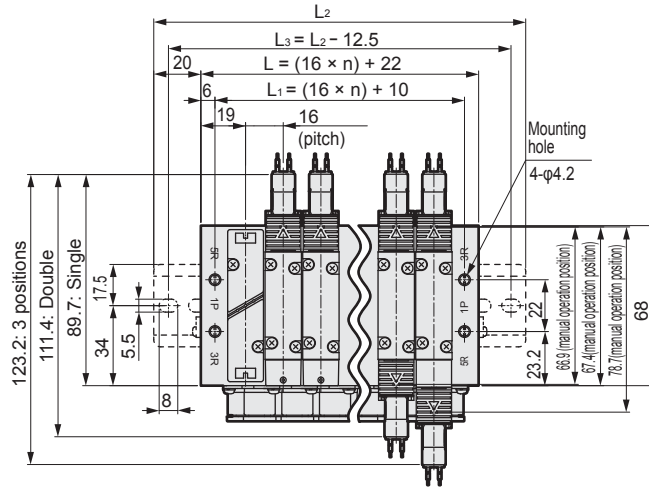
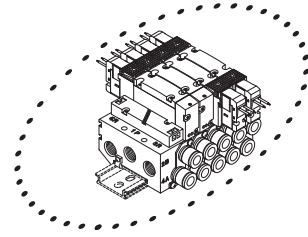
M4GB2 Series

Individual wiring manifold; base piping

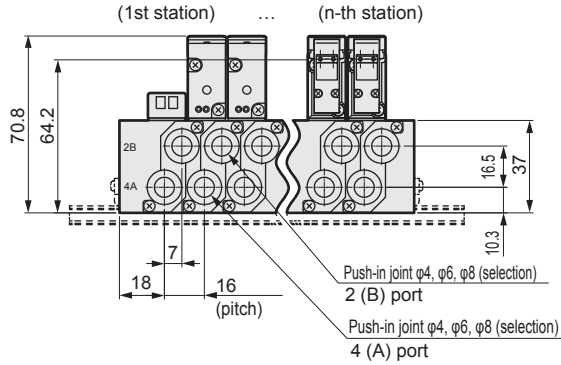
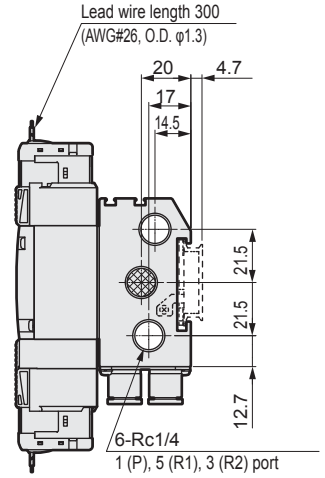
Dimensions 

M4GB2

- Grommet lead wire (blank)



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

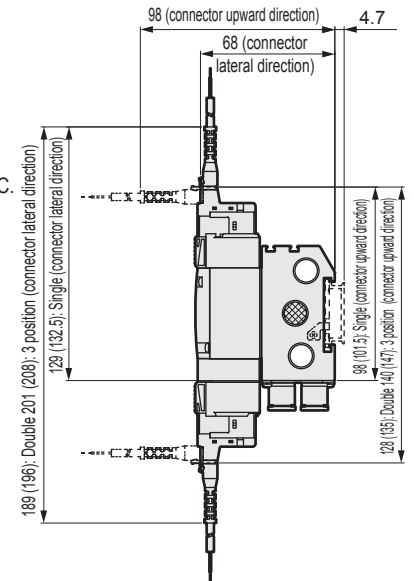
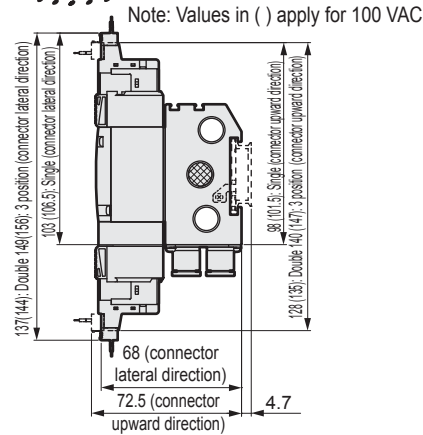
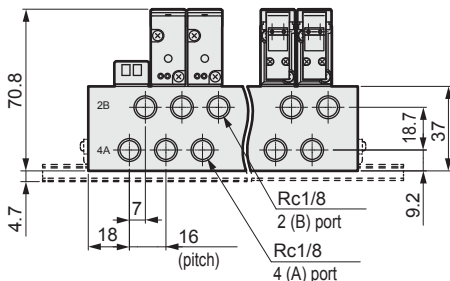
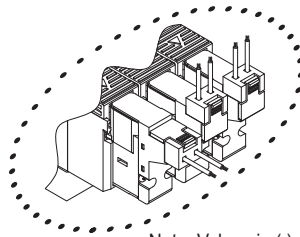
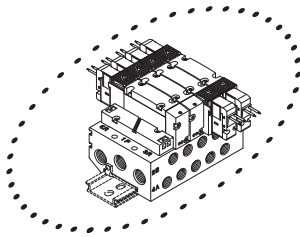


- Rc1/8 Female thread type (06)

- E type connector type (E)

- EJ type connector type (E**J)

Note: Values in () apply for 100 VAC.



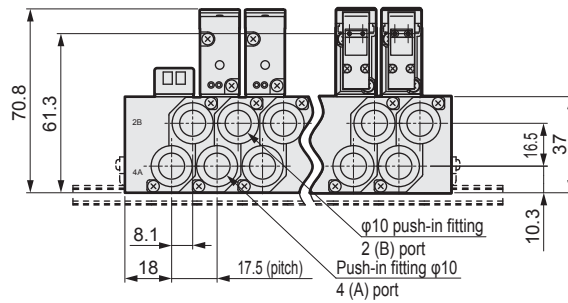
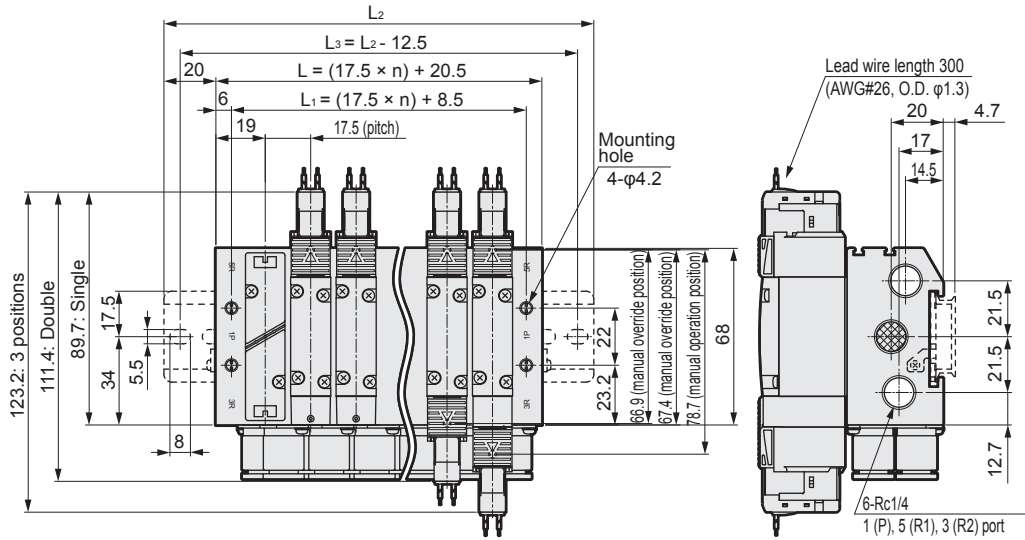
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 54.0 | 70.0 | 86.0 | 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 | | | | |

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

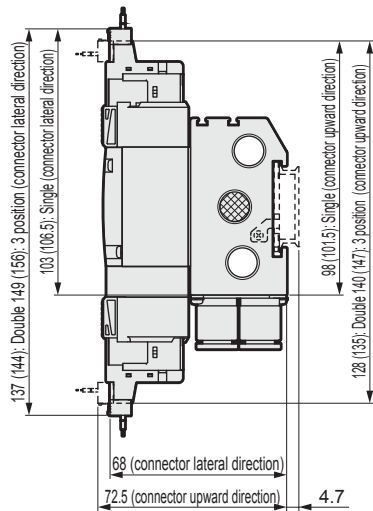
Dimensions

M4GB2-C10

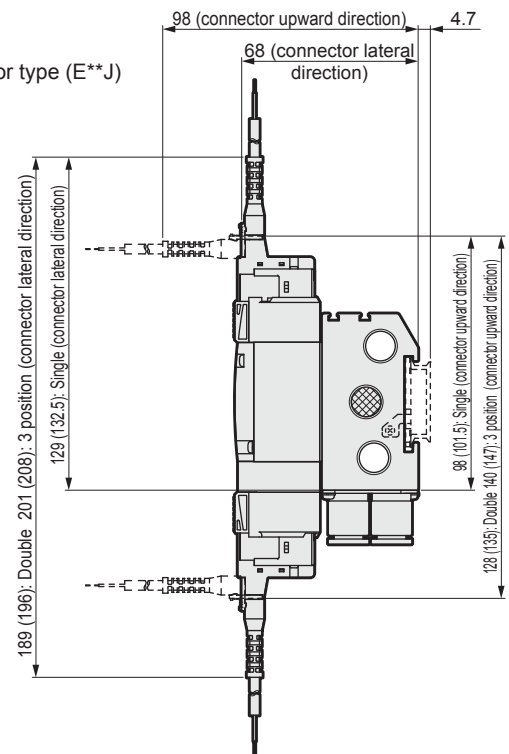
- Grommet lead wire (blank)



- 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 | | | | | |

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

M4GB2 Series

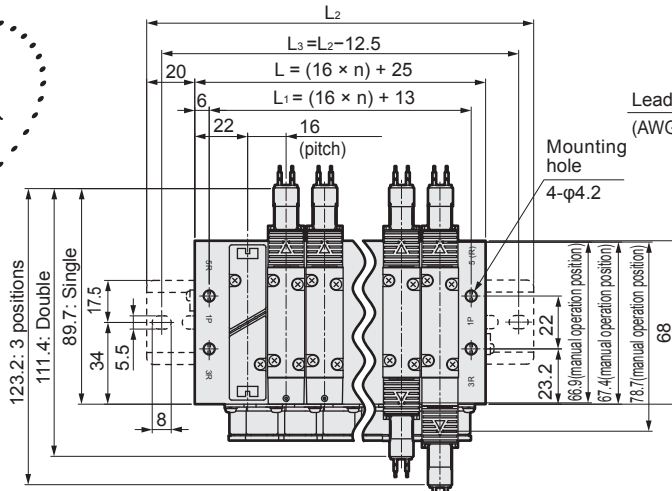
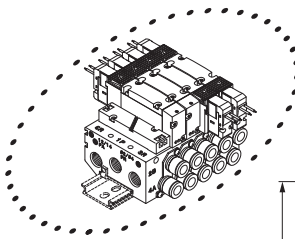
Individual wiring manifold; base piping

Dimensions

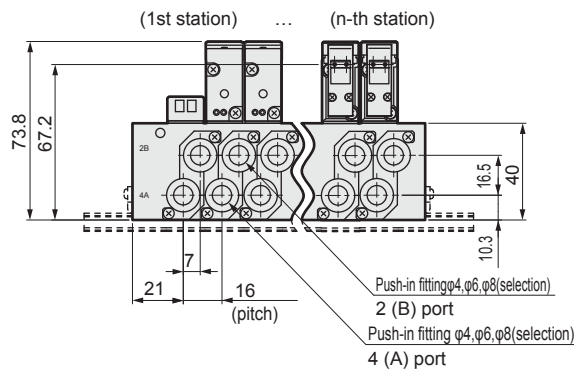
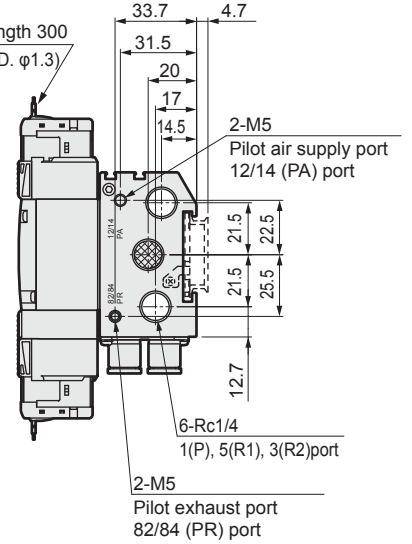


M4GB2

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



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

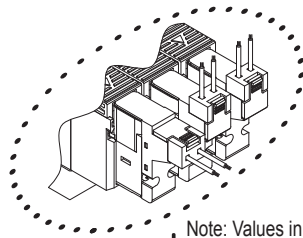
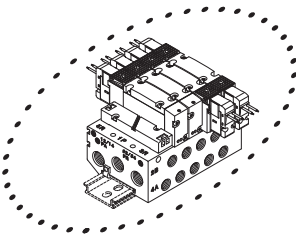


- External pilot (K)
- Rc1/8 female thread type (06)

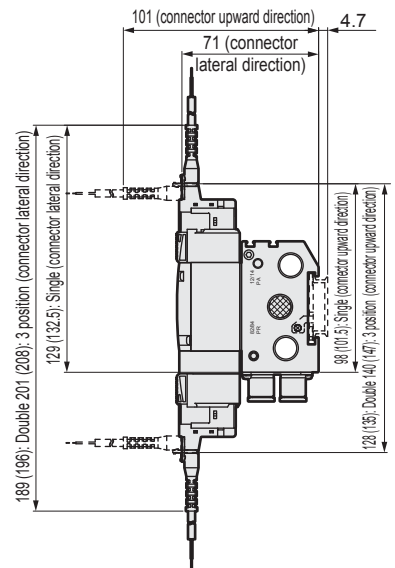
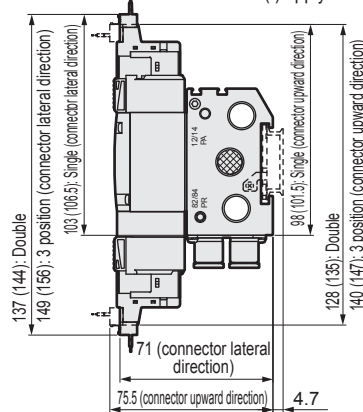
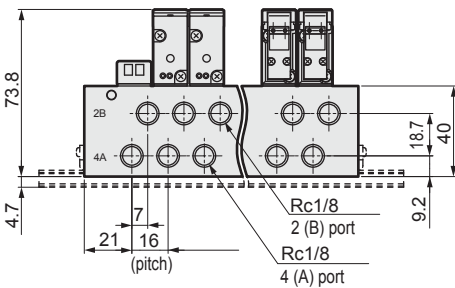
- External pilot (K)
- E type connector type (E)

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

Note: Values in () apply for 100 VAC



Note: Values in () apply for 100 VAC.



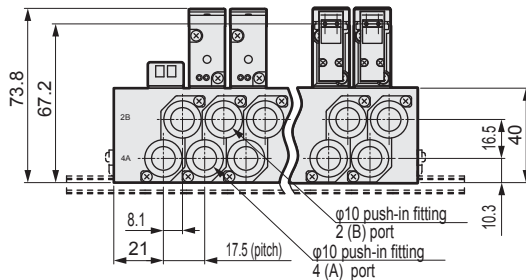
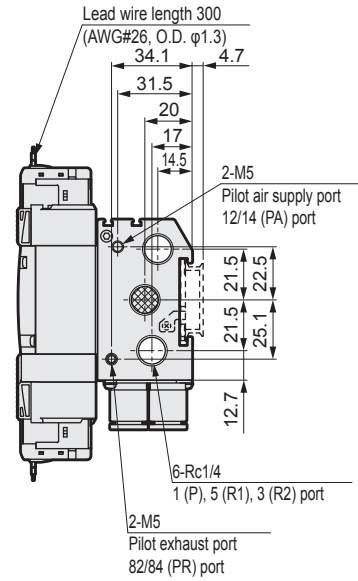
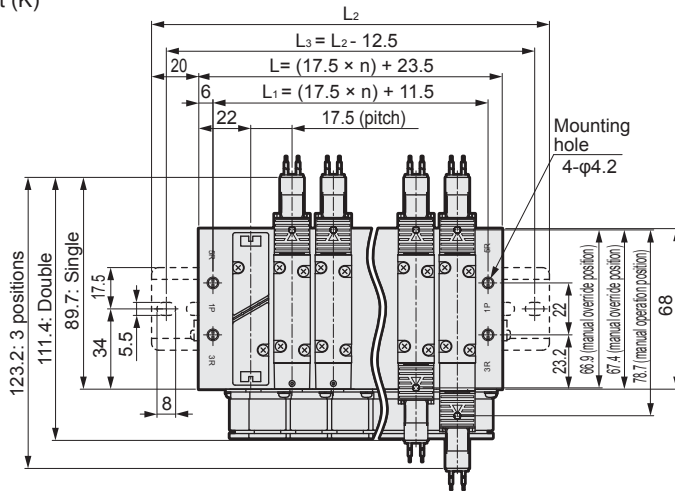
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 57.0 | 73.0 | 89.0 | 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 | | | | |

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

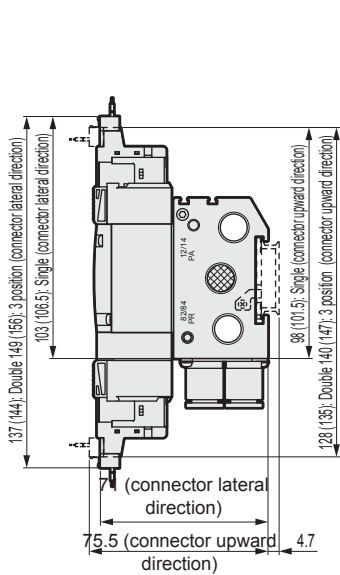
Dimensions

M4GB2-C10-K

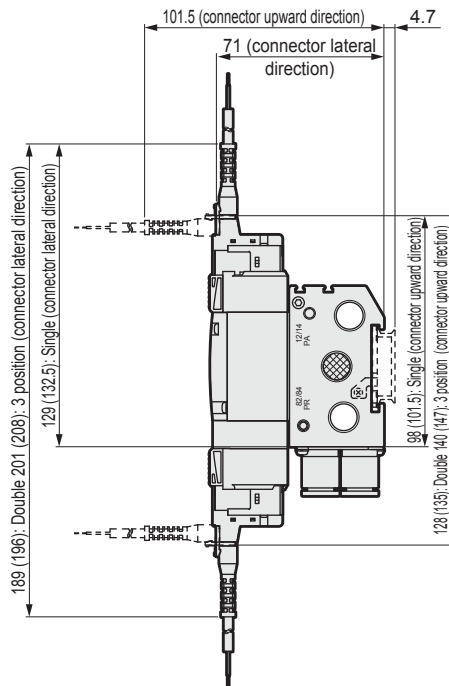
- Grommet lead wire (blank)
External pilot (K)



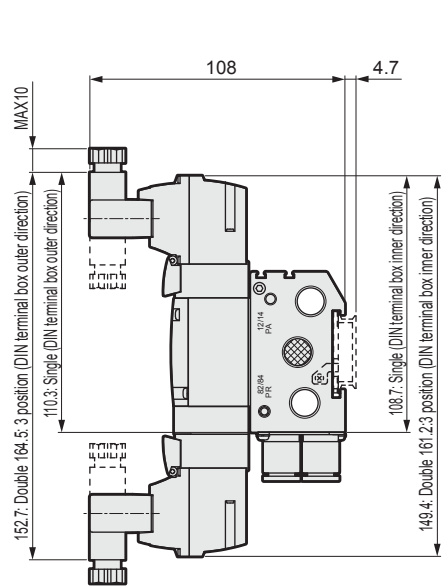
- External pilot (K)
E type connector type (E)



- 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 | | | | |

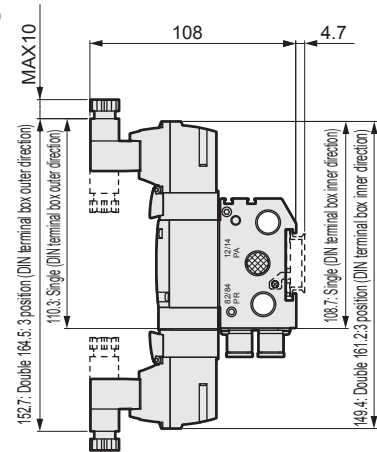
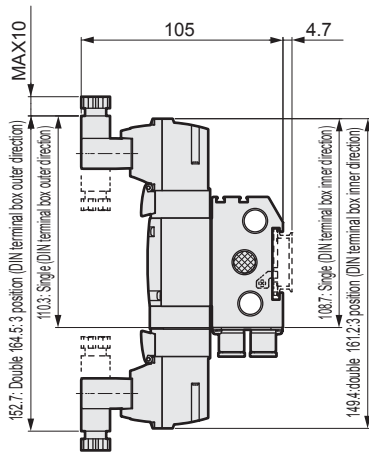
M4GB2 Series

Individual wiring manifold; base piping

Dimensions

● DIN terminal box type (B)

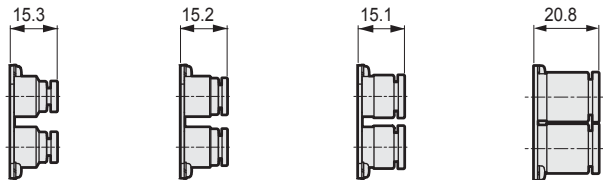
● External pilot
DIN terminal box type (B)



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

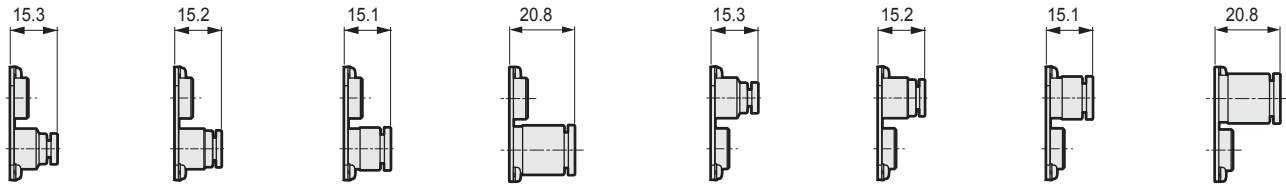
● Fitting straight

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



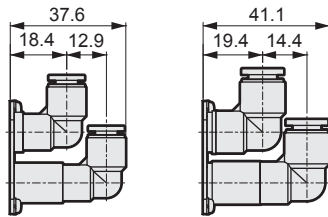
● Fitting straight, single plug

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



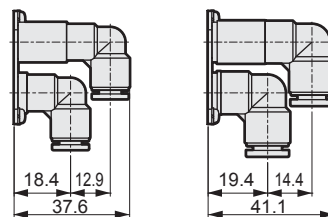
● Fitting L type (upward)

● $\phi 6$ (CL6) ● $\phi 8$ (CL8)



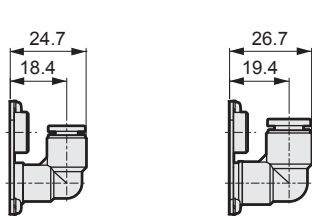
● Fitting L type (downward)

● $\phi 6$ (CD6) ● $\phi 8$ (CD8)

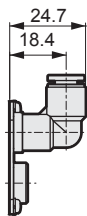


● Fitting L type (upward), single plug

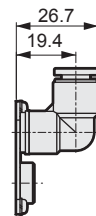
● $\phi 6$ (CL6NC) ● $\phi 8$ (CL8NC)



● $\phi 6$ (CL6NO)

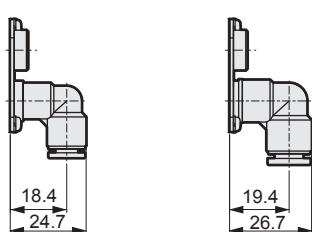


● $\phi 8$ (CL8NO)

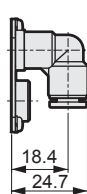


● Fitting L type (downward), single plug

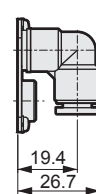
● $\phi 6$ (CD6NC) ● $\phi 8$ (CD8NC)



● $\phi 6$ (CD6NO)



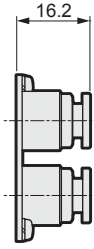
● $\phi 8$ (CD8NO)



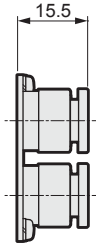
Dimensions

● Fitting straight

● $\phi 1/4$ inch (C6N)

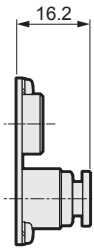


● $\phi 5/16$ inch (C8N)

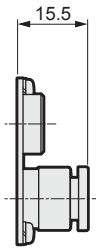


● Fitting straight, single plug

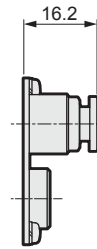
● $\phi 1/4$ inch (C6NCN)



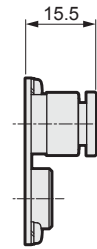
● $\phi 5/16$ inch (C8NCN)



● $\phi 1/4$ inch (C6NON)

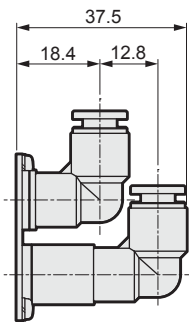


● $\phi 5/16$ inch (C8NON)

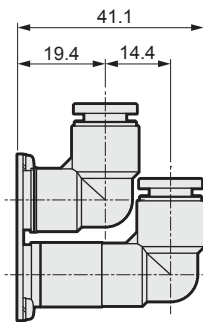


● Fitting L type (upward)

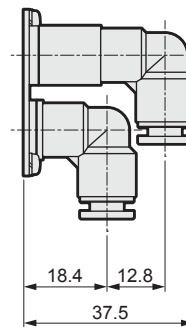
● $\phi 1/4$ inch (CL6N)



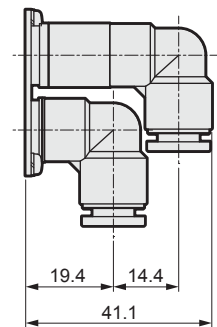
● $\phi 5/16$ inch (CL8N)



● $\phi 1/8$ inch (CD6N)

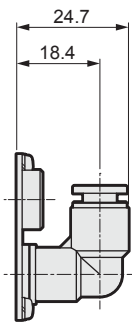


● $\phi 5/32$ inch (CD8N)

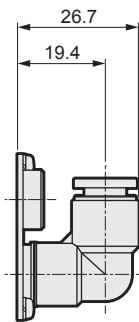


● Fitting L type (upward), single plug

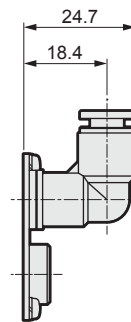
● $\phi 1/4$ inch (CL6NCN)



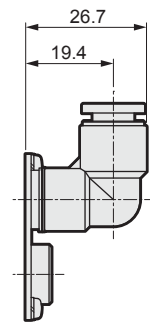
● $\phi 5/16$ inch (CL8NCN)



● $\phi 1/4$ inch (CL6NON)

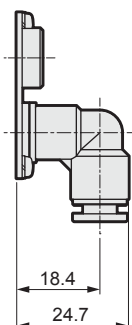


● $\phi 5/16$ inch (CL8NON)

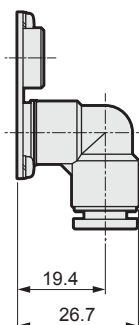


● Fitting L type (downward), single plug

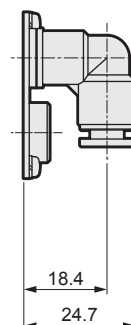
● $\phi 1/4$ inch (CD6NCN)



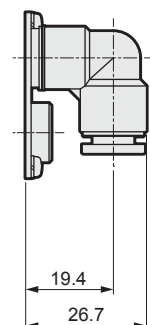
● $\phi 5/16$ inch (CD8NCN)



● $\phi 1/4$ inch (CD6NON)



● $\phi 5/16$ inch (CD8NON)



4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GB3 Series

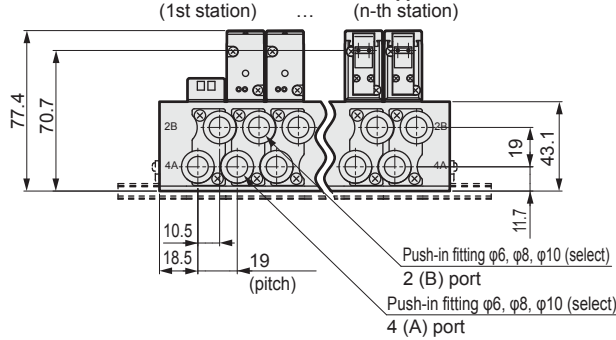
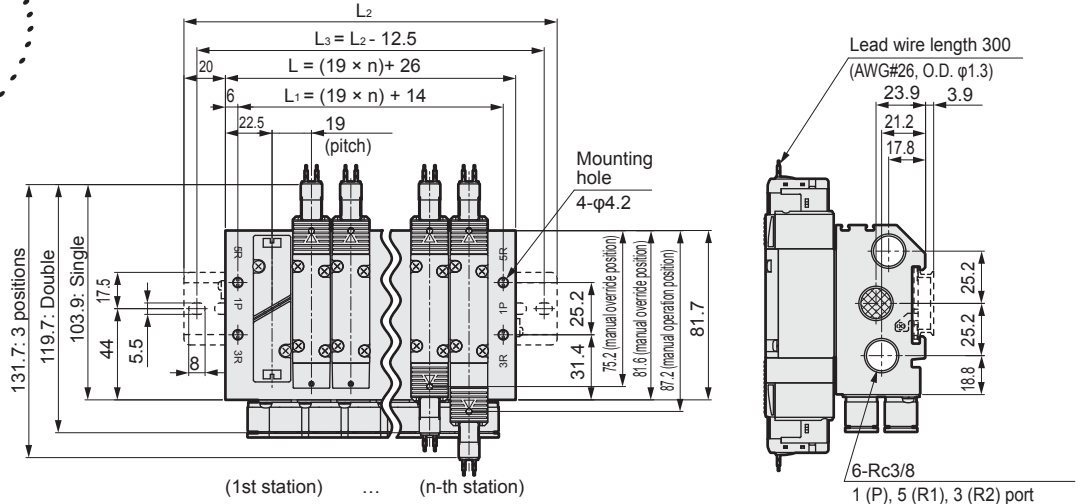
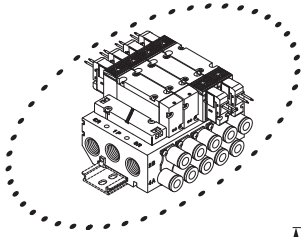
Individual wiring manifold; base piping

Dimensions



M4GB3

- Grommet lead wire (blank)

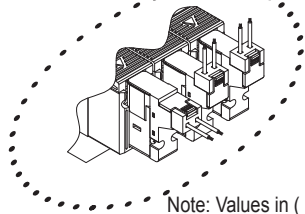
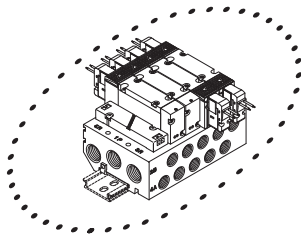


- Rc1/4 Female thread type (08)

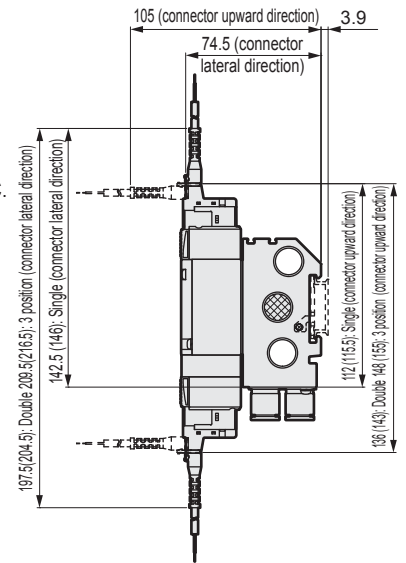
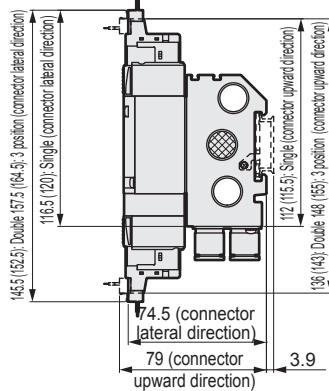
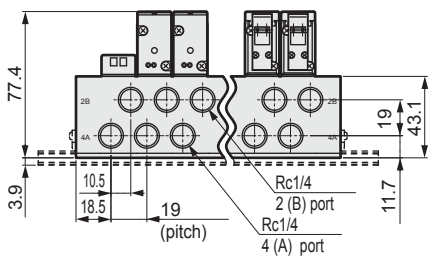
- E type connector type (E)

- EJ type connector type (E**J)

Note: Values in () apply for 100 VAC.



Note: Values in () apply for 100 VAC.



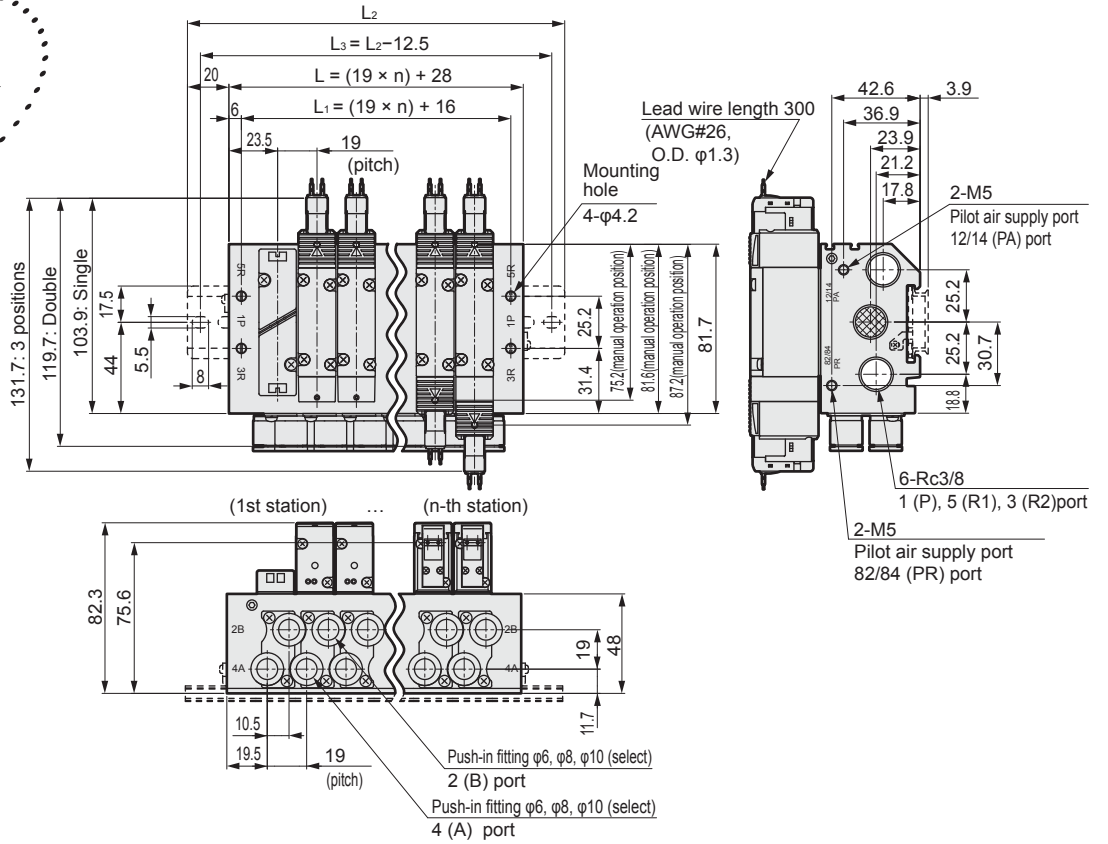
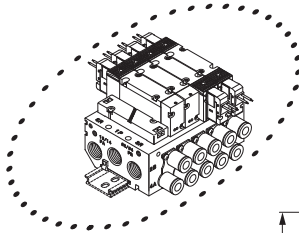
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 64.0 | 83.0 | 102.0 | 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

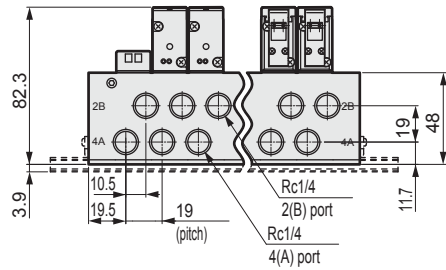
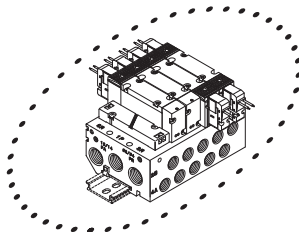


M4GB3

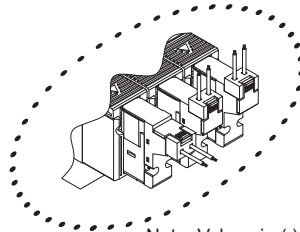
- External pilot (K)
Grommet lead wire (blank)



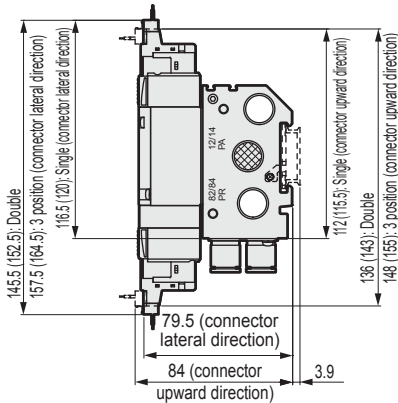
- External pilot (K)
Rc1/4 female thread type (08)



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

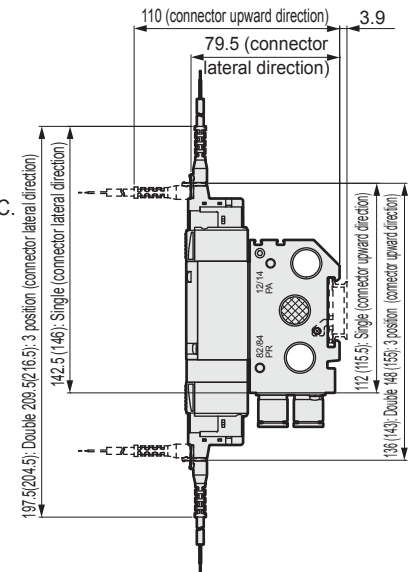


Note: Values in () apply for 100 VAC.



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

Note: Values in () apply for 100 VAC.



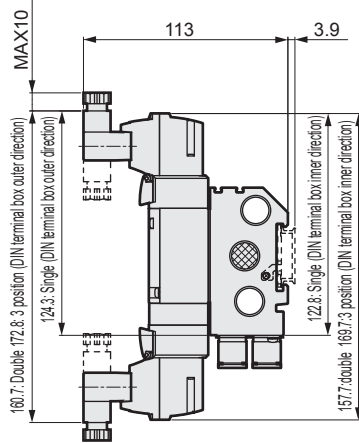
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 66.0 | 85.0 | 104.0 | 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

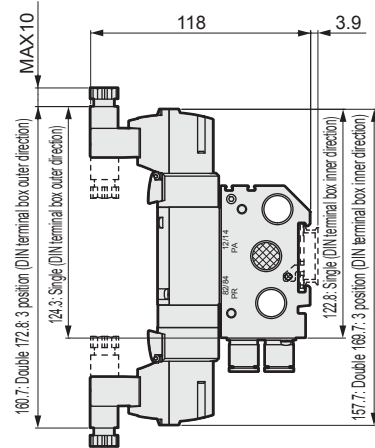
Dimensions

● 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

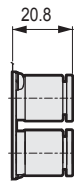
● $\phi 6$ (C6)



● $\phi 8$ (C8)



● $\phi 10$ (C10)



● Fitting straight, single plug

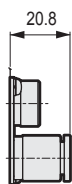
● $\phi 6$ (C6NC)



● $\phi 8$ (C8NC)



● $\phi 10$ (C10NC)



● $\phi 6$ (C6NO)



● $\phi 8$ (C8NO)

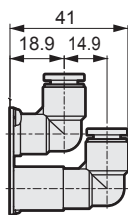


● $\phi 10$ (C10NO)

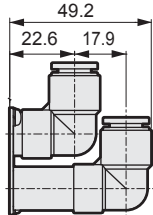


● Fitting L type (upward)

● $\phi 8$ (CL8)

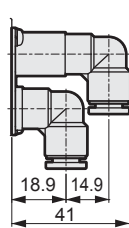


● $\phi 10$ (CL10)

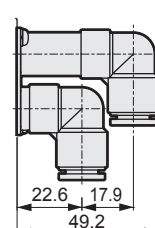


● Fitting L type (downward)

● $\phi 8$ (CD8)

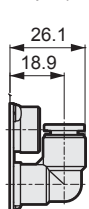


● $\phi 10$ (CD10)

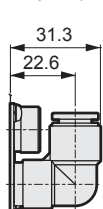


● Fitting L type (upward), single plug

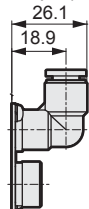
● $\phi 8$ (CL8NC)



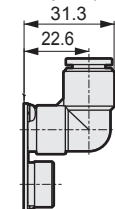
● $\phi 10$ (CL10NC)



● $\phi 8$ (CL8NO)

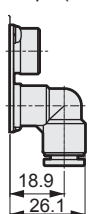


● $\phi 10$ (CL10NO)

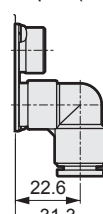


● Fitting L type (downward), single plug

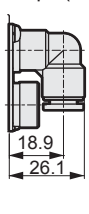
● $\phi 8$ (CD8NC)



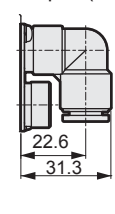
● $\phi 10$ (CD10NC)



● $\phi 8$ (CD8NO)



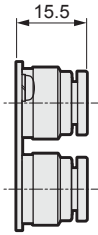
● $\phi 10$ (CD10NO)



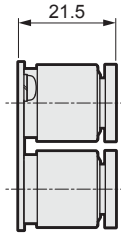
Dimensions

● Fitting straight

● $\varnothing 5/16$ inch (C8N)

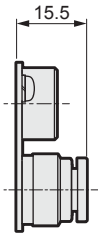


● $\varnothing 3/8$ inch (C10N)

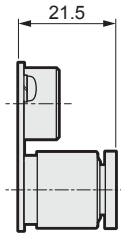


● Fitting straight, single plug

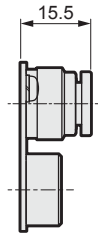
● $\varnothing 5/16$ inch (C8NCN)



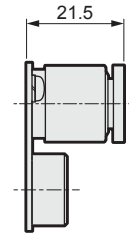
● $\varnothing 3/8$ inch (C10NCN)



● $\varnothing 5/16$ inch (C8NON)

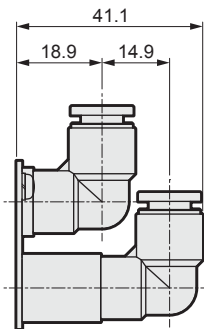


● $\varnothing 3/8$ inch (C10NON)

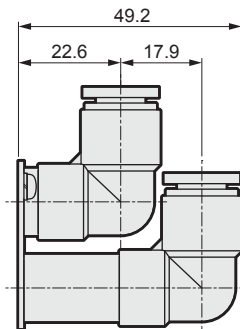


● Fitting L type (upward)

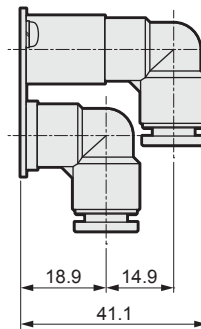
● $\varnothing 5/16$ inch (CL8N)



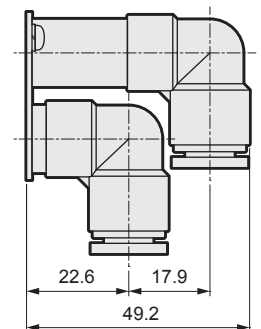
● $\varnothing 3/8$ inch (CL10N)



● $\varnothing 5/16$ inch (CD8N)

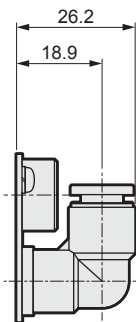


● $\varnothing 3/8$ inch (CD10N)

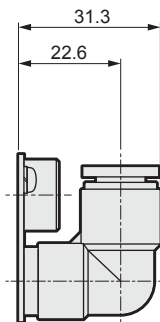


● Fitting L type (upward), single plug

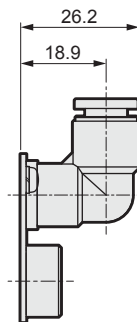
● $\varnothing 5/16$ inch (CL8NCN)



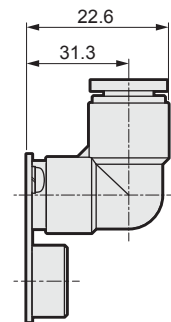
● $\varnothing 3/8$ inch (CL10NCN)



● $\varnothing 5/16$ inch (CL8NON)

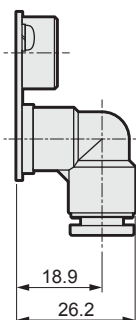


● $\varnothing 3/8$ inch (CL10NON)

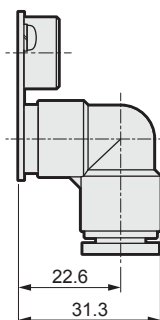


● Fitting L type (downward), single plug

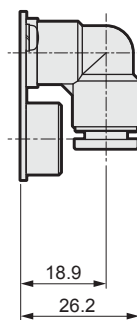
● $\varnothing 5/16$ inch (CD8NCN)



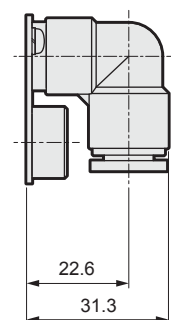
● $\varnothing 3/8$ inch (CD10NCN)

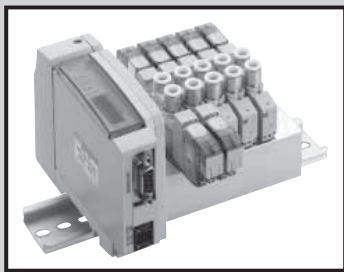


● $\varnothing 5/16$ inch (CD8NON)



● $\varnothing 3/8$ 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 $\phi 100$



4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

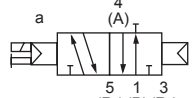
Technical data

Safety
precautions

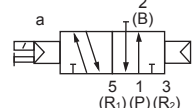
Manifold
Specifications

JIS symbol

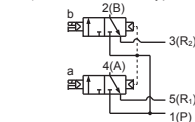
- 3 port valve
2-position single N.C. type



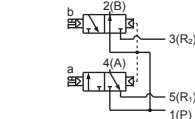
- 2-position single solenoid NO type



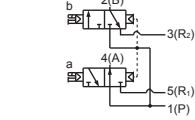
- Dual 3 port valve integrated type
(A side valve: N.C. type, B side valve: N.C. type)



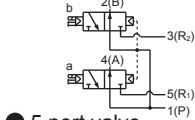
- (A side valve: N.C. type, B side valve: N.O. type)



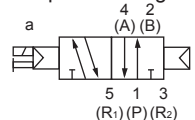
- (A side valve: N.O. type, B side valve: N.C. type)



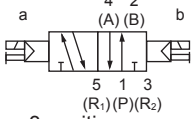
- (A side valve: N.O. type, B side valve: N.O. type)



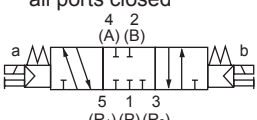
- 5 port valve
2-position single



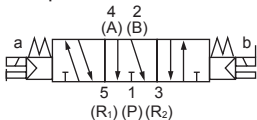
- 2-position double



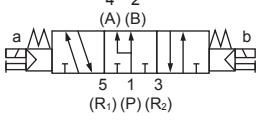
- 3 position
all ports closed



- 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 | |
| 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% | |
| Note 4 | | +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 | |
|---|---------------------------|--------------|----------------|--------------|----------------|--------------|----------------|
| | | 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 | 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 |
|---|---------------------------|----------------|----------------|----------------|
| | | 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 | 31n+375 | 56n+444 | 86n+501 |
| | External pilot | 46n+494 | 98n+615 | 151n+731 |

T8*

| Descriptions | | M3GA1/M4GA1 | | M3GA2/M4GA2 | | M3GA3/M4GA3 | |
|---|---------------------------|--------------|----------------|--------------|----------------|--------------|----------------|
| | | Direct mount | DIN rail Mount | Direct mount | DIN rail Mount | Direct mount | DIN rail Mount |
| Max. station no. | Standard (Internal pilot) | 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 | 0.23 | 1.1 - | 0.20 - |
| | | ABR connection PAB connection | 0.93 1.1 | 0.18 0.28 | 1.3 (0.70) 1.1 - | 0.23 (0.02) 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 PAB connection | 2.2 2.4 | 0.37 0.34 | 2.9 (1.8) 2.5 - | 0.32 (0.29) 0.33 - |
| 2-position | | 3.2 | 0.37 | 3.8 (2.5) | 0.13 (0.28) | |
| M3GA3 M4GA3 | 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 PAB connection | 2.2 2.4 | 0.37 0.34 | 2.9 (1.8) 2.5 - | 0.32 (0.29) 0.33 - |
| 2-position | | 3.2 | 0.37 | 3.8 (2.5) | 0.13 (0.28) | |
| M3GA3 M4GA3 | 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 PAB connection | 2.2 2.4 | 0.37 0.34 | 2.9 (1.8) 2.5 - | 0.32 (0.29) 0.33 - |
| 2-position | | 3.2 | 0.37 | 3.8 (2.5) | 0.13 (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* 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 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Left side: T*</p> </div> <div style="text-align: center;"> <p>Right side: T*R</p> </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arrangement type Blank: standard sequential W: Double wiring | <p>(Example) T50 *</p> <p>Manifold specifications</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>1a</td><td>2a</td><td>3a</td><td>4a</td></tr> <tr><td>S</td><td>D</td><td>S</td><td>D</td></tr> <tr><td>2b</td><td>4b</td><td></td><td></td></tr> </table> <p>1st station 3rd station 2nd station 4th station</p> <p>Standard wiring (sequential): Blank</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>Connector pin no.</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>Valve solenoid no.</td><td>1a</td><td>2a</td><td>2b</td><td>3a</td><td>4a</td><td>4b</td></tr> </table> <p>Double wiring: W</p> <table border="1" style="display: inline-table;"> <tr><td>Connector pin no.</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>Valve solenoid no.</td><td>1a</td><td>Void</td><td>2a</td><td>2b</td><td>3a</td><td>Void</td><td>4a</td><td>4b</td></tr> </table> | | | | | | | 1a | 2a | 3a | 4a | S | D | S | D | 2b | 4b | | | Connector pin no. | 1 | 2 | 3 | 4 | 5 | 6 | Valve solenoid no. | 1a | 2a | 2b | 3a | 4a | 4b | Connector pin no. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Valve solenoid no. | 1a | Void | 2a | 2b | 3a | Void | 4a | 4b |
| 1a | 2a | 3a | 4a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | D | S | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2b | 4b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector pin no. | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve solenoid no. | 1a | 2a | 2b | 3a | 4a | 4b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector pin no. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve solenoid no. | 1a | Void | 2a | 2b | 3a | Void | 4a | 4b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Serial transmission slave unit specifications

| Descriptions | T6G1 ^{Note 1} | T6C0 T6C1 ^{Note 2} | T6A0 T6A1 ^{Note 3} | T6E0 T6E1 | T6J0 T6J1 ^{Note 3} |
|----------------------|--|--|---|------------------------------------|---|
| Network name | CC-Link | CompoBus/S | UNIWIRESYSTEM | S-LINK | UNIWIRESYSTEM |
| 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) | | | | |
| Output points | T8*1: 15 mA or less T8*2: 20 mA or less (when all output points are ON) Load current is not included | | | | | | | |
| Occupied number | T8*1: 16 points T8*2: 32 points | | | | | | | |
| Operation display | 1 station | | | | | | | |
| Output type | 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

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.

| 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 | ● | ● | ● | | | |
| 11 | 2-position single normally open | ● | ● | ● | | | |
| 66 | Dual 3 port valve integrated type | ● | ● | | | | |
| 67 | | ● | ● | | | | |
| 76 | | ● | ● | | | | |
| 77 | Note 1, 2 | ● | ● | | | | |
| 8 | Mix manifold (In case of multiple Valve Positions) | ● | ● | ● | ● | ● | ● |

| Port | 4(A) /2(B) port | P/R1/R2 port (2) = Rc1/8 (3) = Rc1/4 (4) = Rc3/8 | | | |
|------|---|--|---|---|---|
| | | 2 | 3 | 4 | 4 |
| 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 |
| C8 | φ8 push-in fitting | | ③ | ④ | ③ |
| C10 | φ10 push-in fitting | | | ④ | ④ |
| CX | Push-in fitting mix | ② | ③ | ④ | ② |
| 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 | | ● | ● | ● | ● | ● |

- 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.

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 | UNIWIRES 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 | UNIWIRES H SYSTEM | 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)

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

● Dust generation preventing structure for use in clean rooms

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

** - Voltage - P7*

** - Voltage - P4

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

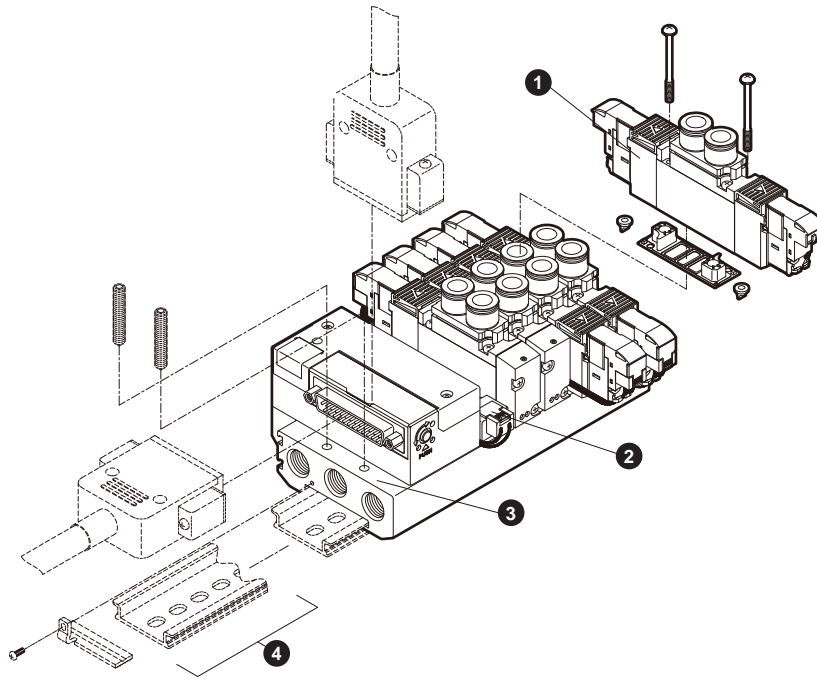
M4GA1, 2, 3-T* (D) Series

Reduced wiring manifold; base piping

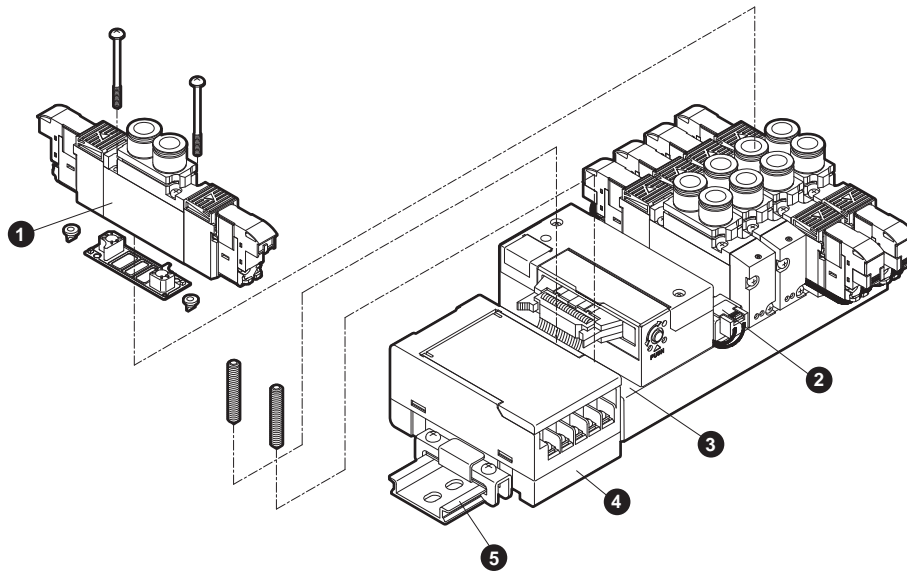
Manifold components explanation and parts list

| |
|----------------------------|
| 4GAB |
| M4GAB |
| MN4GAB |
| 4GAB Master valve |
| 4GD/E |
| M4GD/E |
| MN4GD/E |
| Technical data |
| Safety precautions |
| Manifold Specifications |

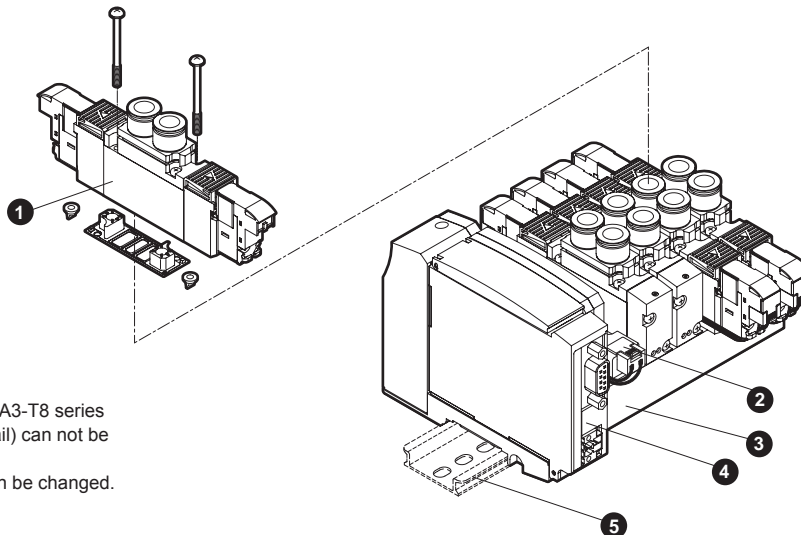
● T30



● 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.

M³₄GA1, 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 <div style="margin-left: 20px;"> Valve Position Series flow rate size </div> | 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. <div style="margin-left: 20px;"> Series flow rate size </div> | 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 | <table border="1"> <tr><td>4G1</td><td>φ1.8 barbed type</td><td>4G1R-JOINT-CF</td></tr> <tr><td></td><td>φ8 straight type</td><td>4G1R-JOINT-C18</td></tr> <tr><td></td><td>φ4 straight type</td><td>4G1R-JOINT-C4</td></tr> <tr><td></td><td>φ6 straight type</td><td>4G1R-JOINT-C6</td></tr> <tr><td></td><td>Plug cartridge</td><td>4G1R-JOINT-CPG</td></tr> <tr><td>4G2</td><td>φ4 straight type</td><td>4G2R-JOINT-C4</td></tr> <tr><td></td><td>φ6 straight type</td><td>4G2R-JOINT-C6</td></tr> <tr><td></td><td>φ8 straight</td><td>4G2R-JOINT-C8</td></tr> <tr><td></td><td>Plug cartridge</td><td>4G2R-JOINT-CPG</td></tr> <tr><td>4G3</td><td>φ6 straight type</td><td>4G3R-JOINT-C6</td></tr> <tr><td></td><td>φ8 straight</td><td>4G3R-JOINT-C8</td></tr> <tr><td></td><td>φ10 straight type</td><td>4G3R-JOINT-C10</td></tr> <tr><td></td><td>Plug cartridge</td><td>4G3R-JOINT-CPG</td></tr> </table> | 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 |
| 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautionsManifold
Specifications

M4GA1-T* Series

Reduced wiring manifold; base piping

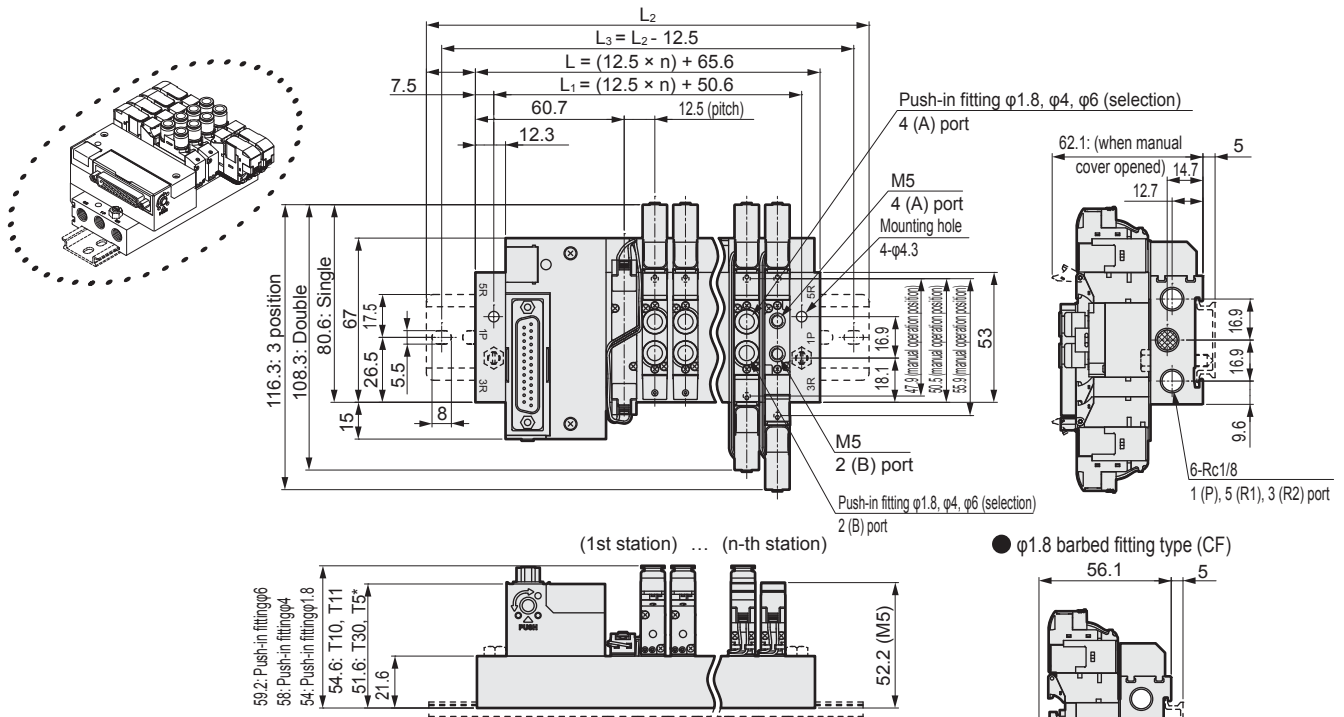
Dimensions 

M4GA1

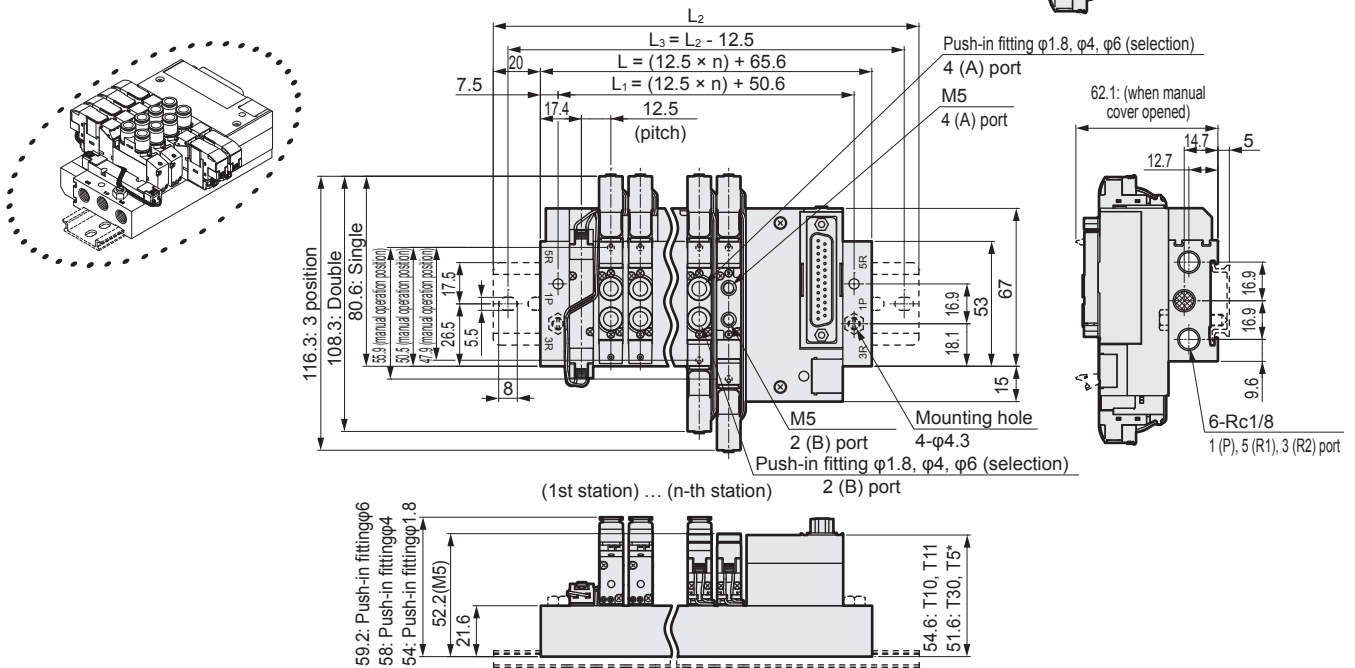
● Reduced wiring left side type (T10/T11/T30/T50/T51/T52/T53)

*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 | | | | |

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

Dimensions

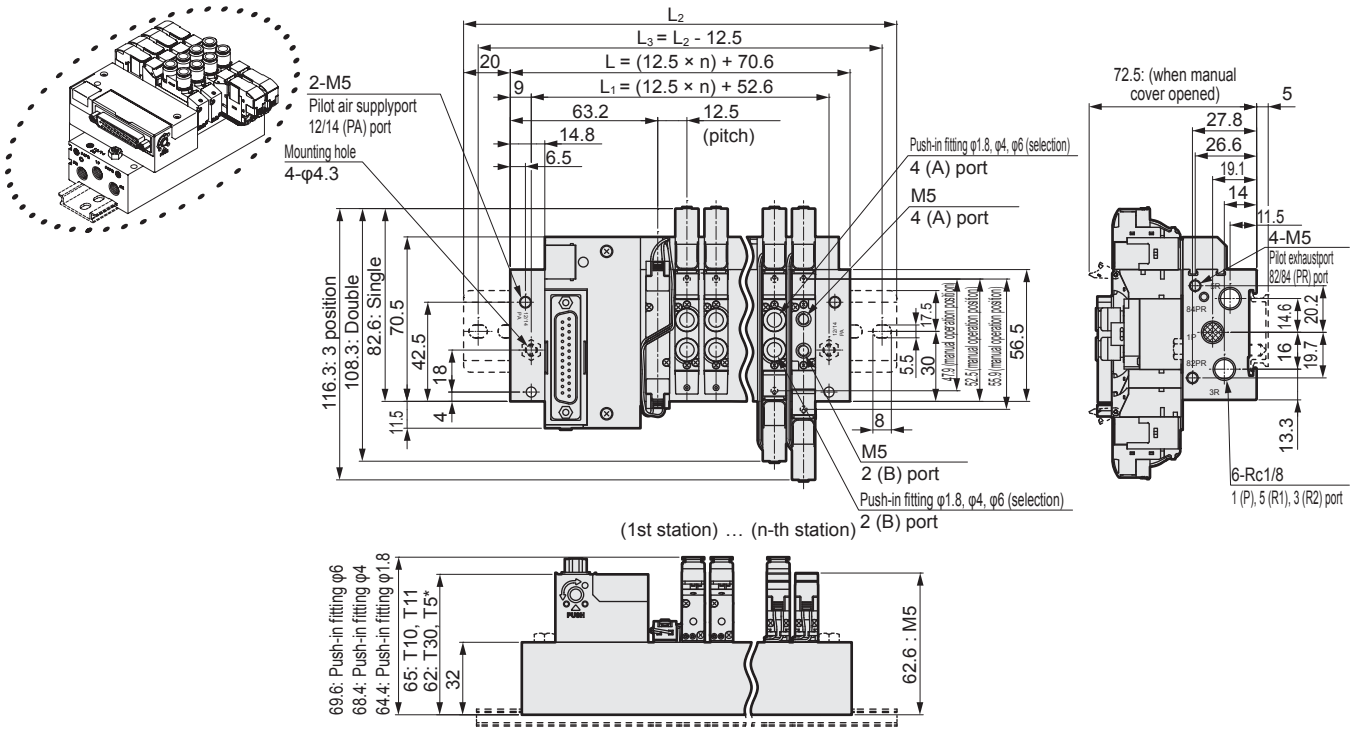


M4GA1

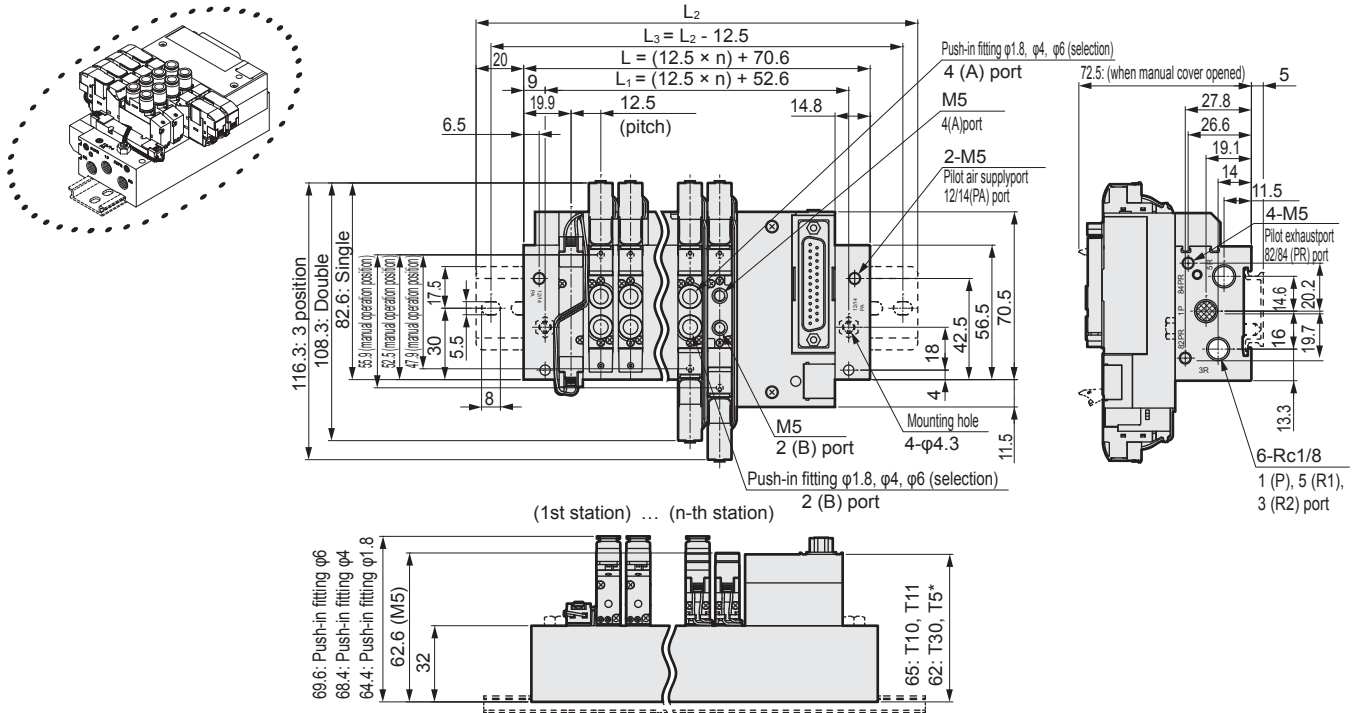
- Reduced wiring left side type (T10/T11/T30/T50/T51/T52/T53)
External pilot (K)

*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 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 |

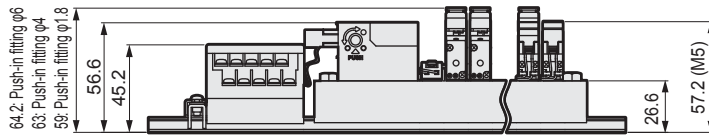
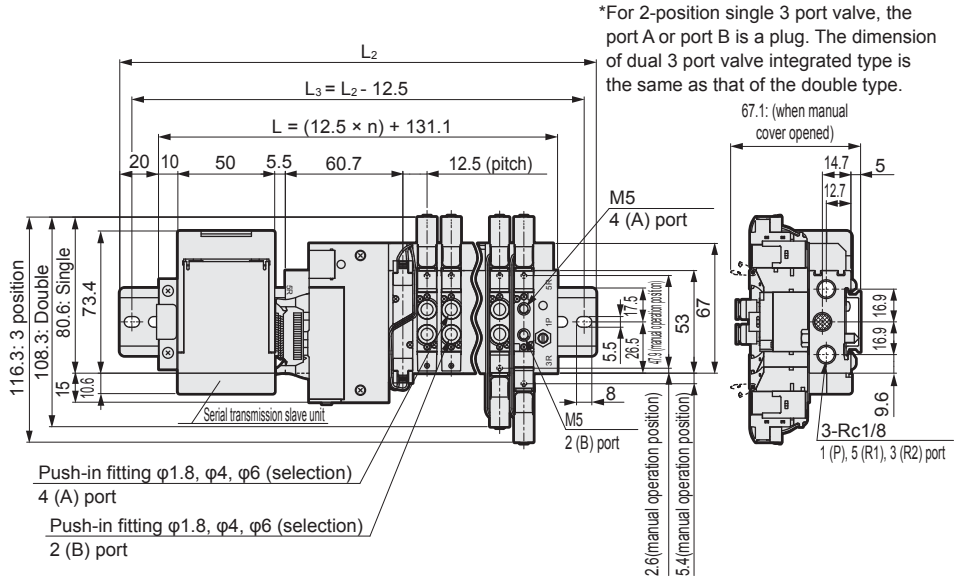
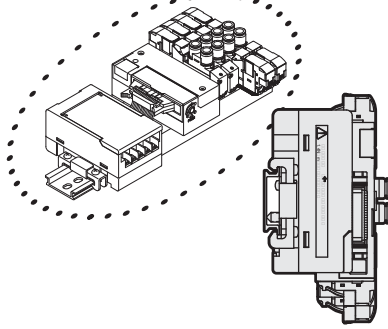
M4GA1-T6D Series

Reduced wiring manifold; base piping

Dimensions 

M4GA1

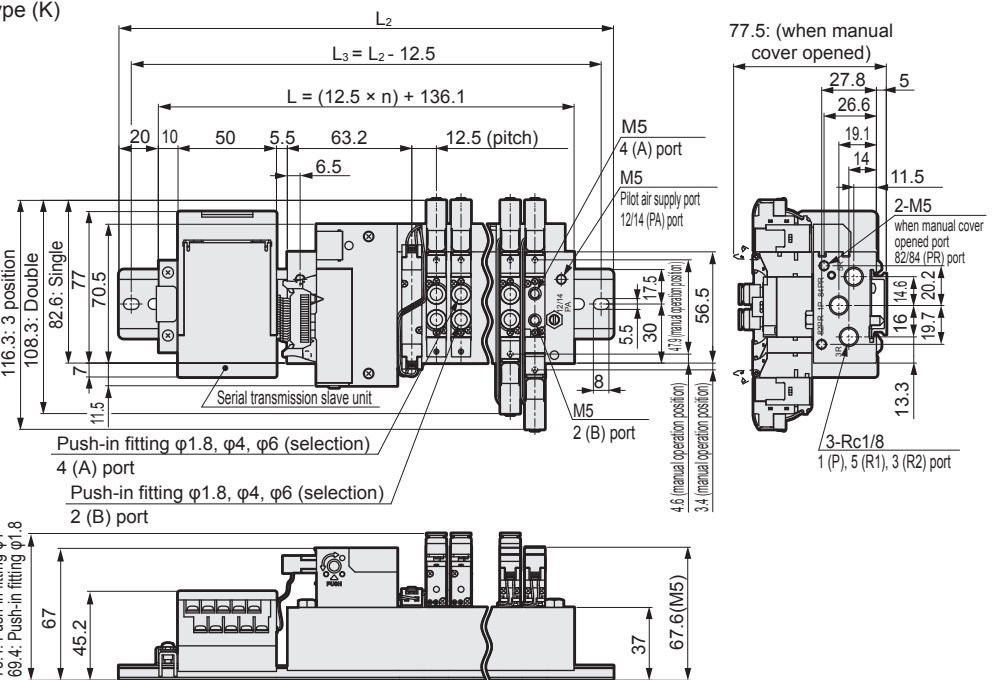
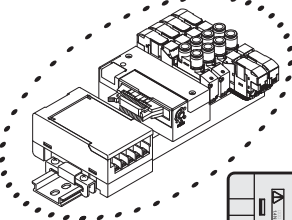
- Serial transmission (T6*)
DIN rail mounting type (D)



| 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 |

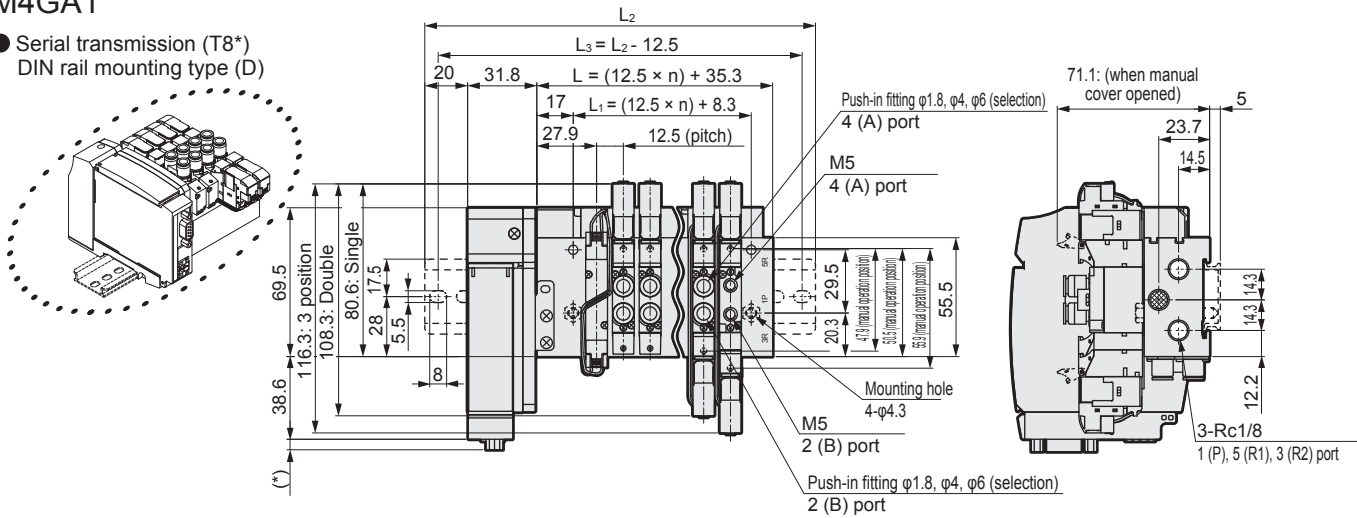
M4GA1-T8* Series

Reduced wiring manifold; body piping; serial transmission

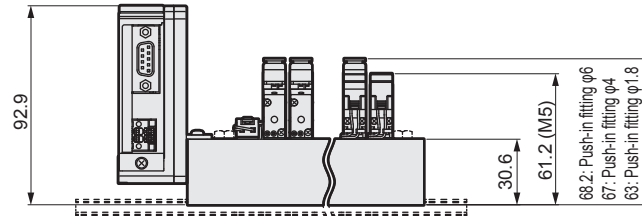
Dimensions

M4GA1

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



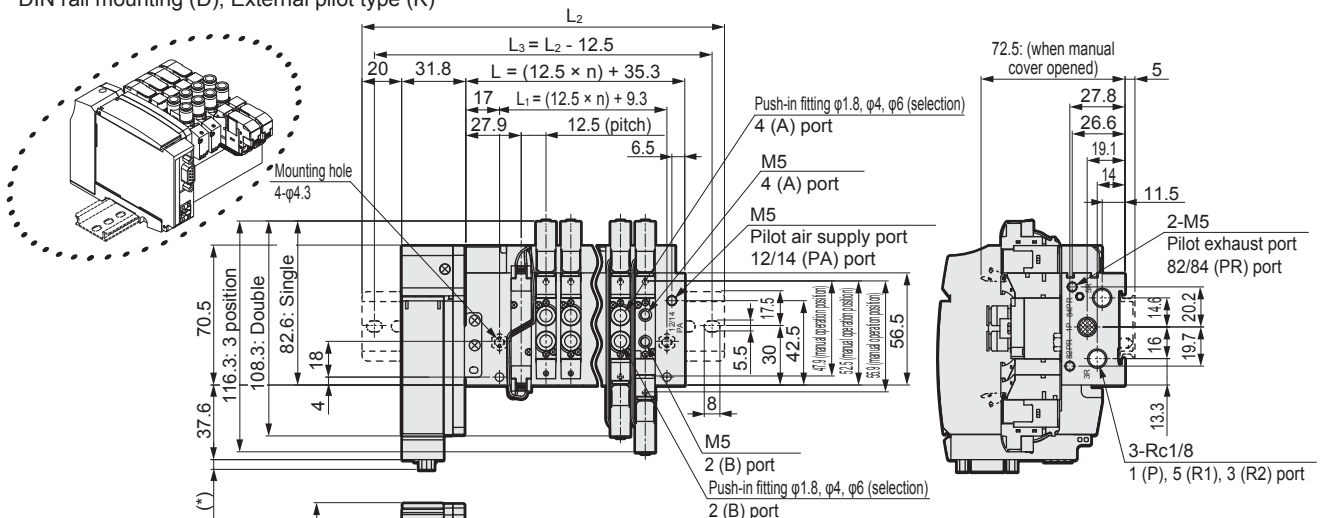
| Serial transmission | (*) Dimensions |
|---------------------|----------------|
| T8G* | 1.0 |
| T8P* | 4.9 |
| T8E* | 3.0 |



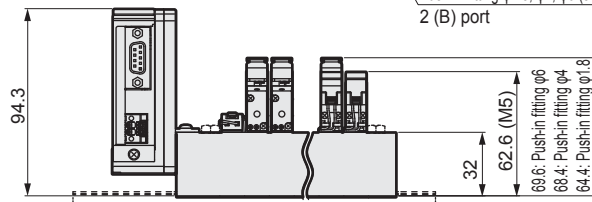
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 60.3 | 72.8 | 85.3 | 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

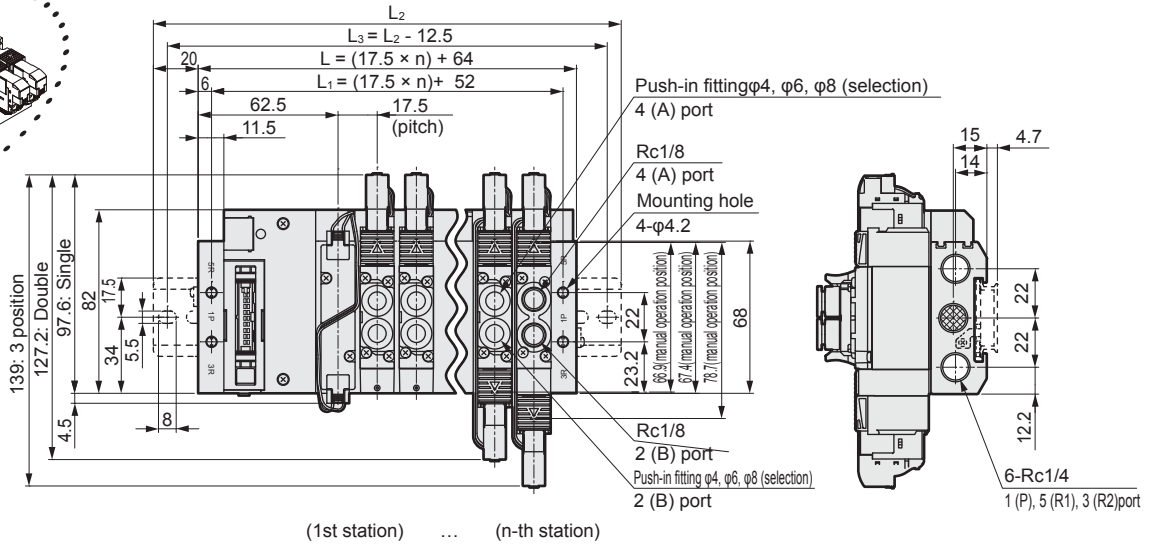
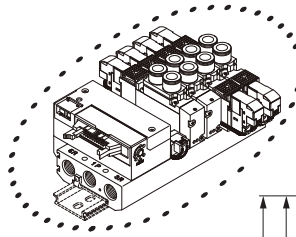
Dimensions 

M4GA2

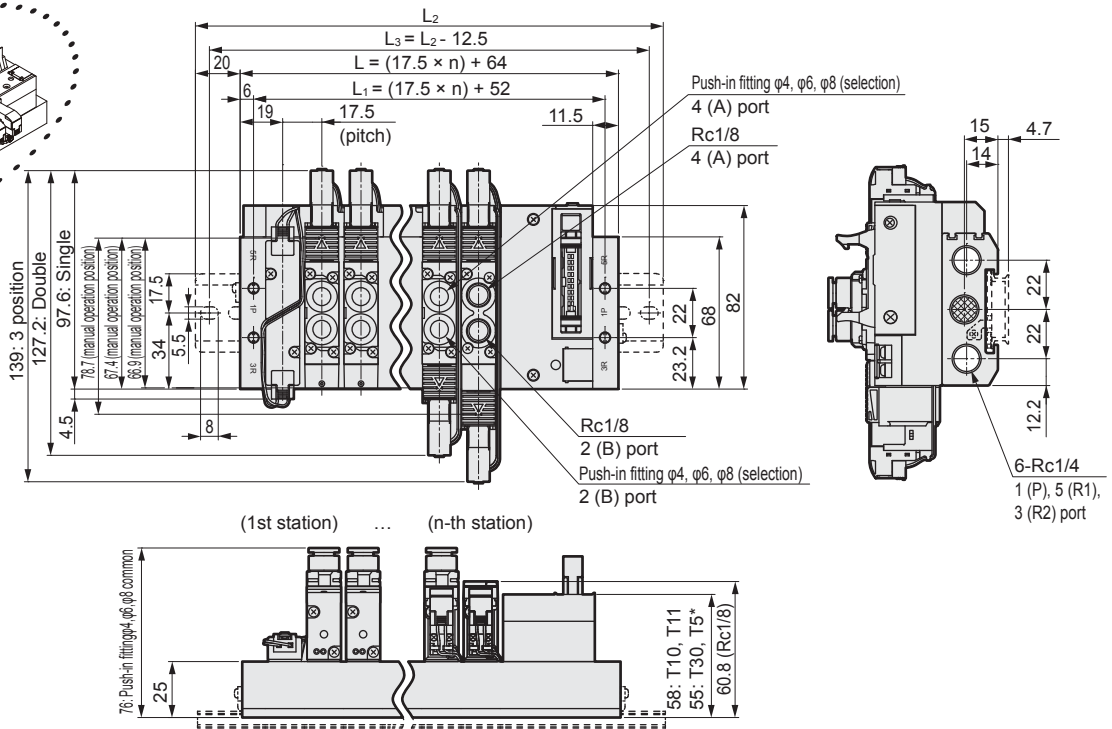
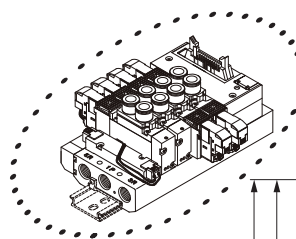
● Reduced wiring left side type (T10/T11/T30/T50/T51/T52/T53)

*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 | | | | |

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

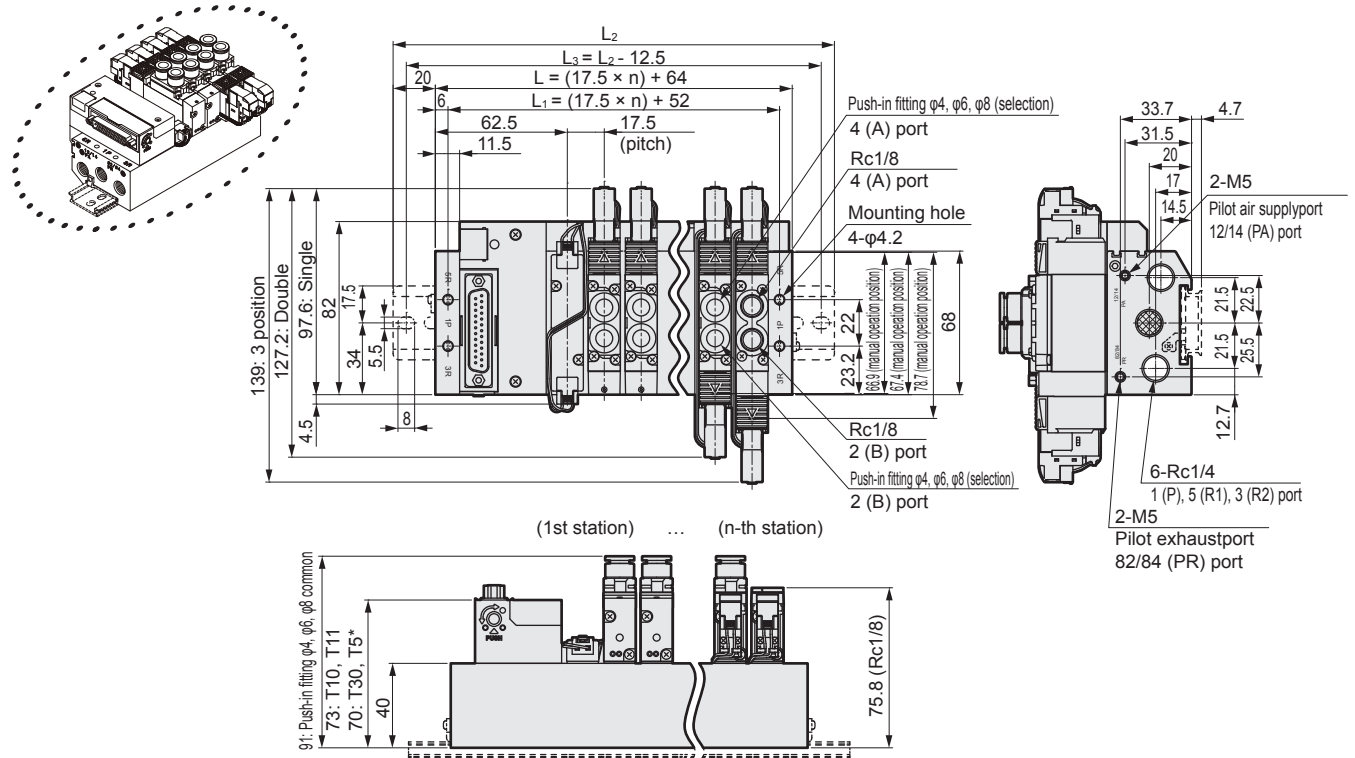
Dimensions



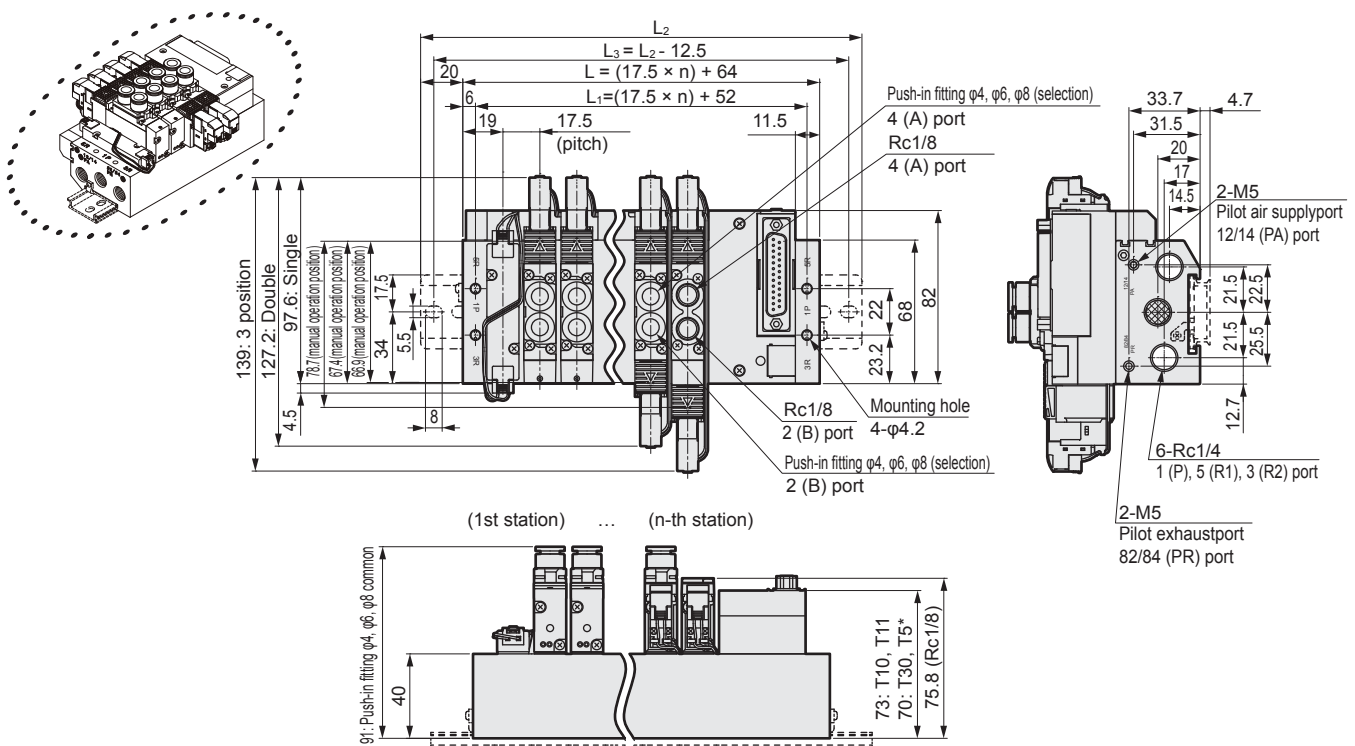
M4GA2

- 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 | | | | |

4GAB
M4GAB/B
MN4GAB/B
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

M4GA2-T6D Series

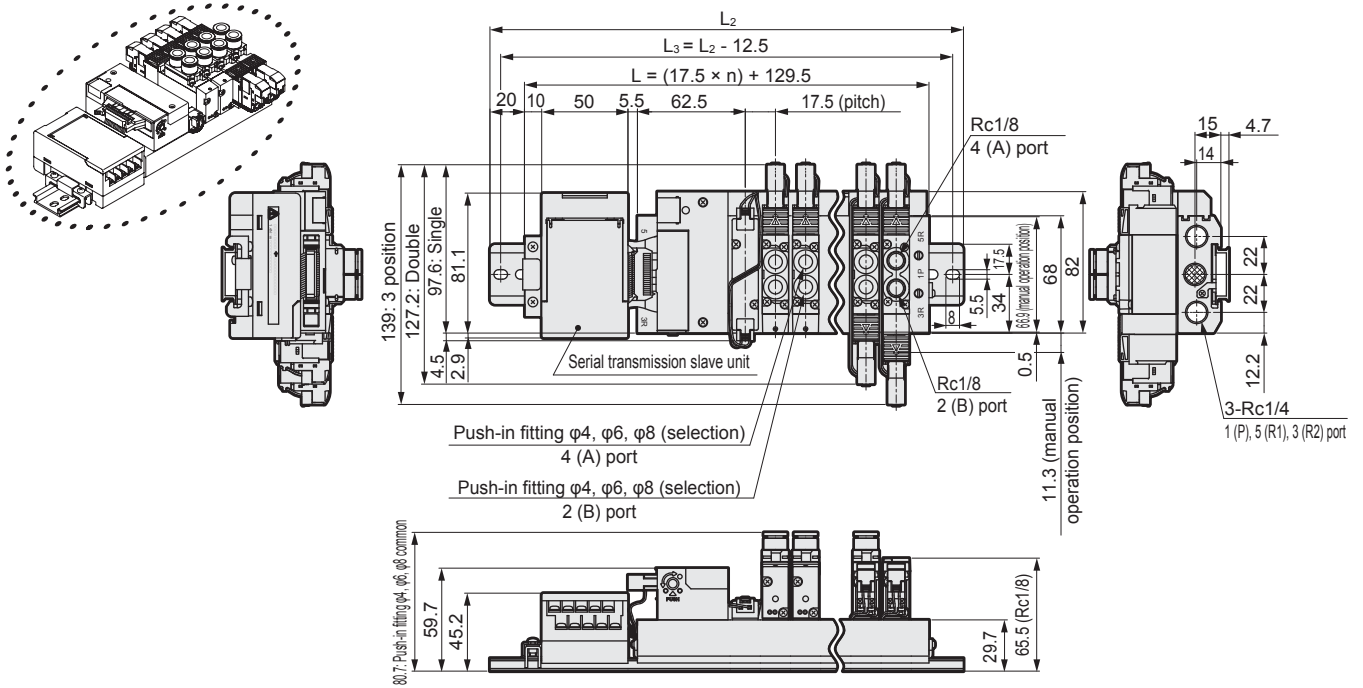
Reduced wiring manifold; body piping; serial transmission

Dimensions

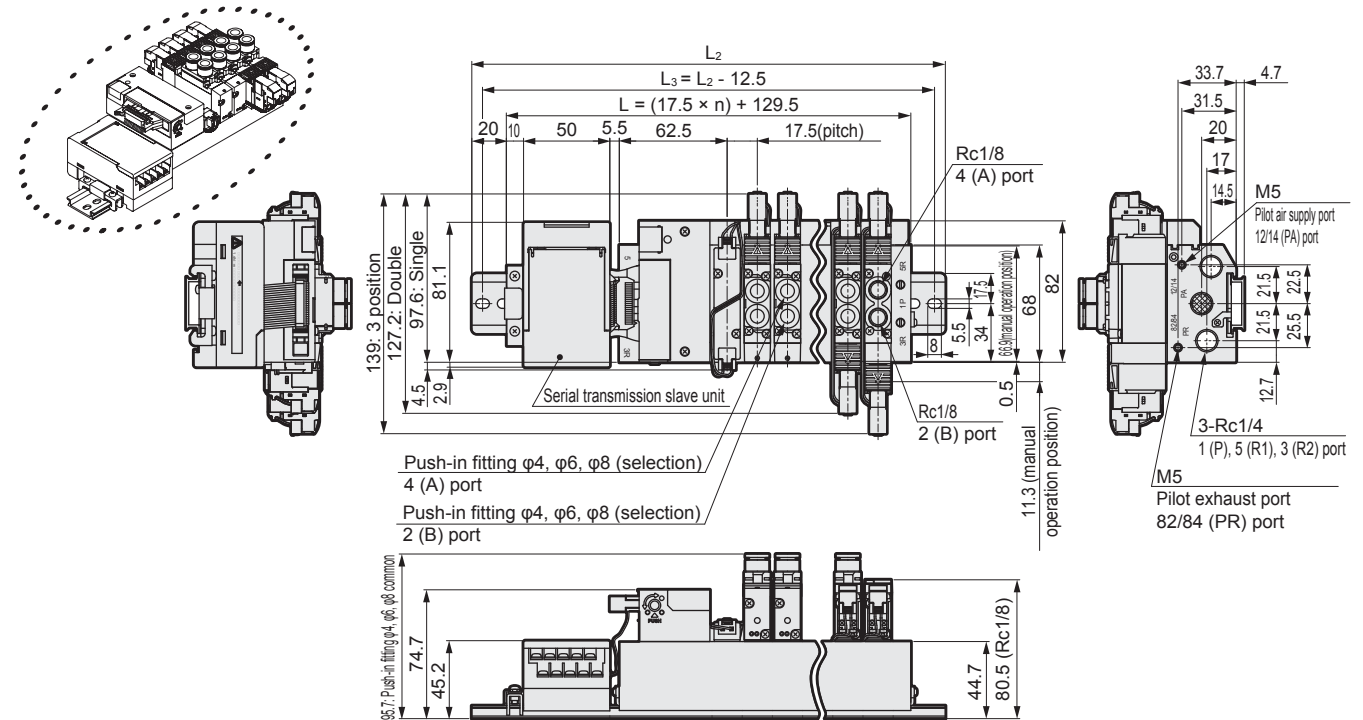
M4GA2

- 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 |

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

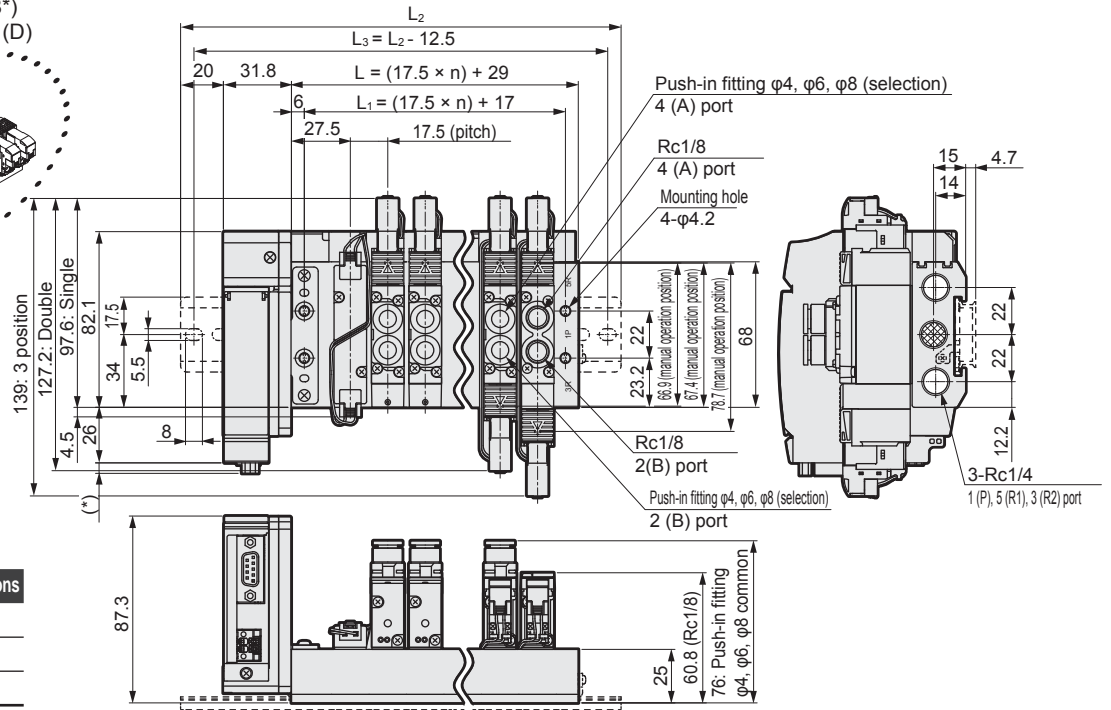
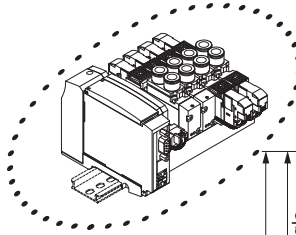
M4GA2-T8* Series

Reduced wiring manifold; body piping; serial transmission

Dimensions

M4GA2

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

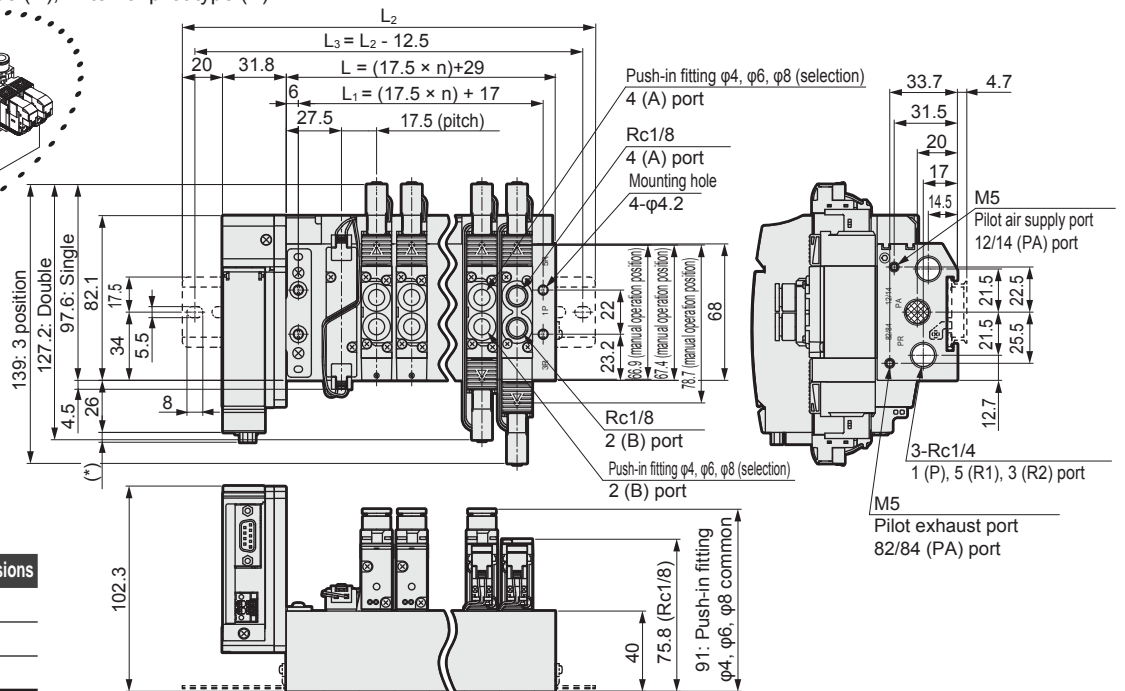
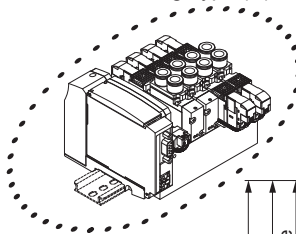


| Serial transmission | (*) Dimensions |
|---------------------|----------------|
| T8G* | 1.0 |
| T8P* | 4.9 |
| T8E* | 3.0 |

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



| 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 | 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 | | | | |

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

M4GA3-T* Series

Reduced wiring manifold; base piping

Dimensions

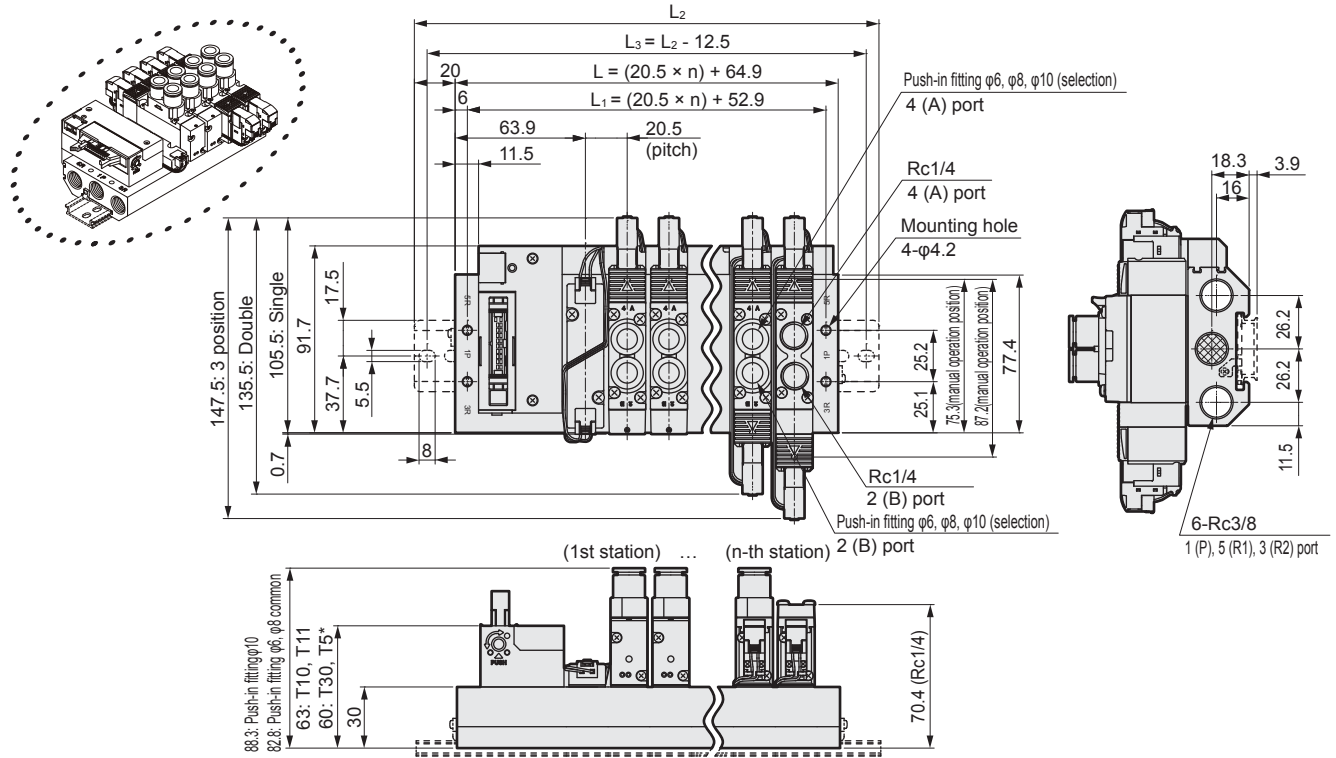


M4GA3

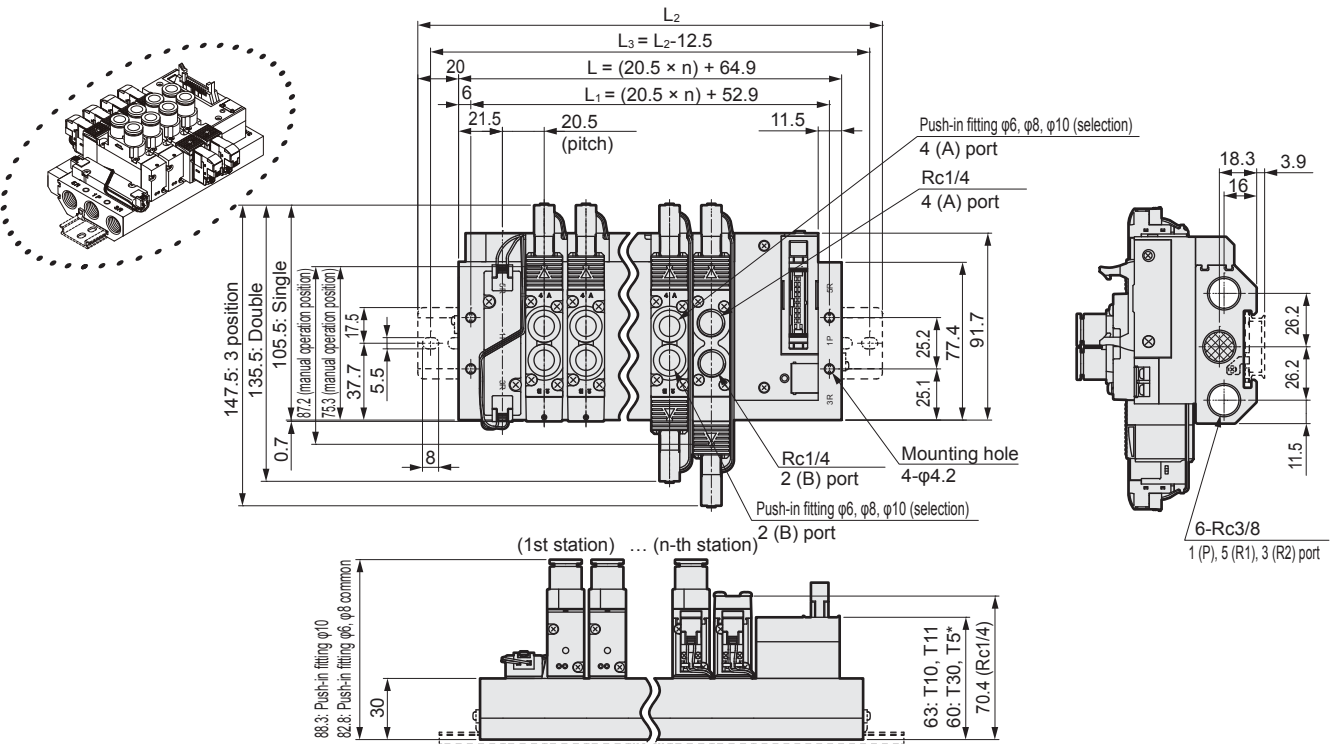
● Reduced wiring left side type (T10/T11/T30/T50/T51/T52/T53)

*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 |

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

M4GA3-T6D Series

Reduced wiring manifold; body piping; serial transmission

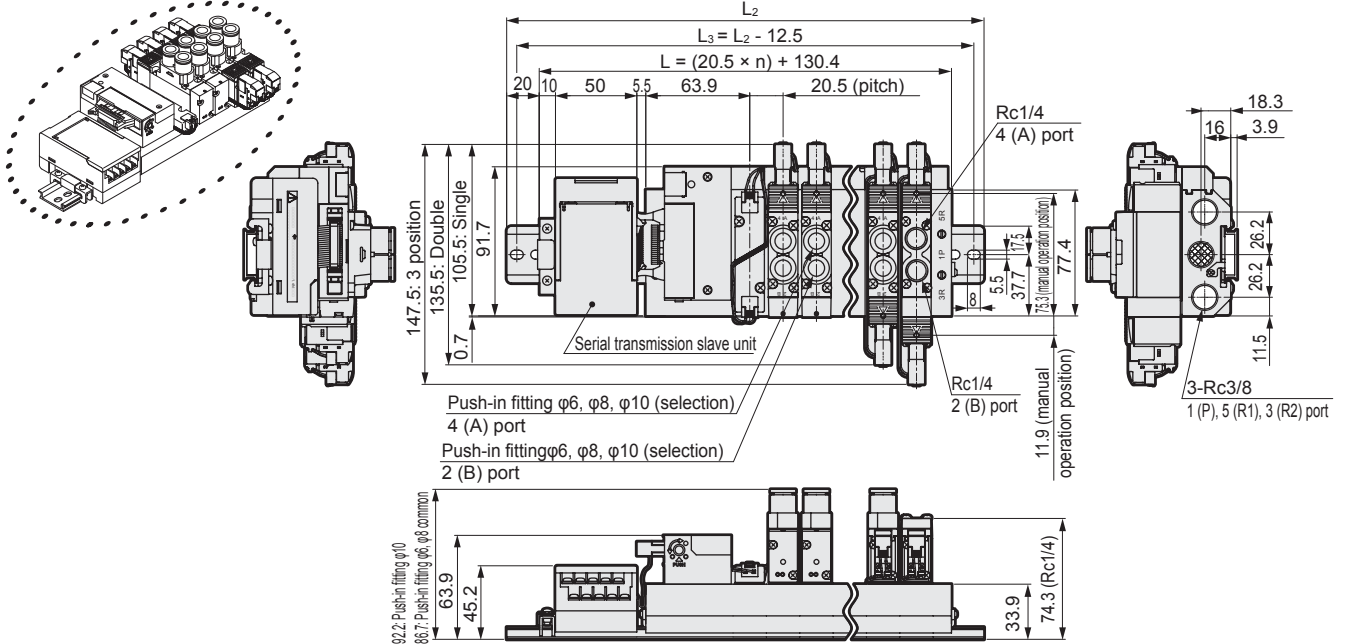
Dimensions



M4GA3

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

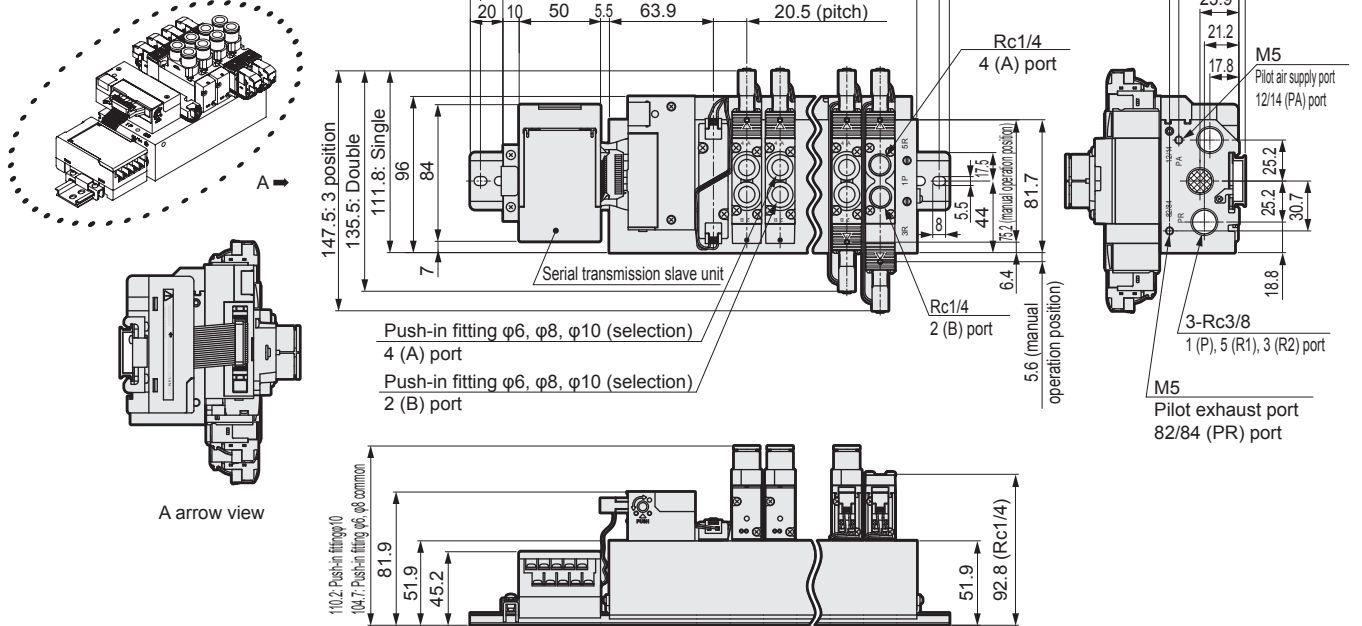
*For 2-position single 3 port valve, the port A or port B is a plug.



| 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 |

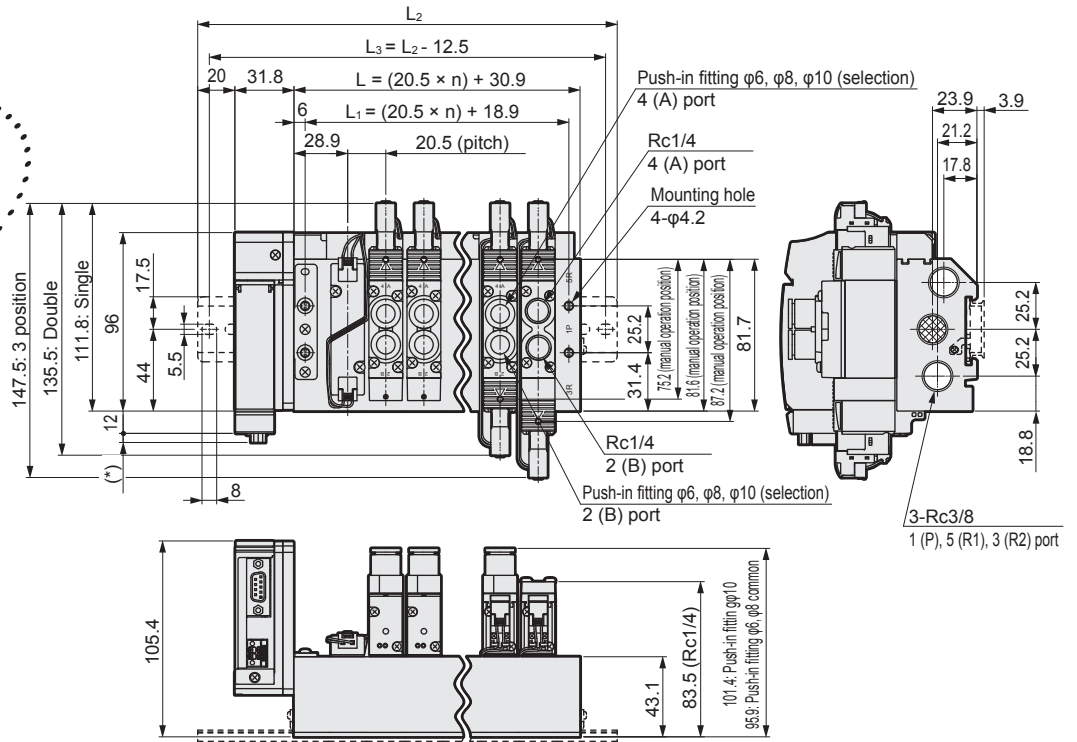
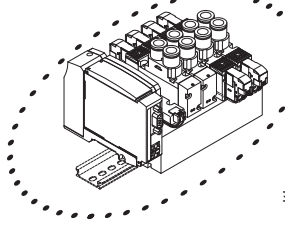
M4GA3-T8* Series

Reduced wiring manifold; body piping; serial transmission

Dimensions

M4GA3

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

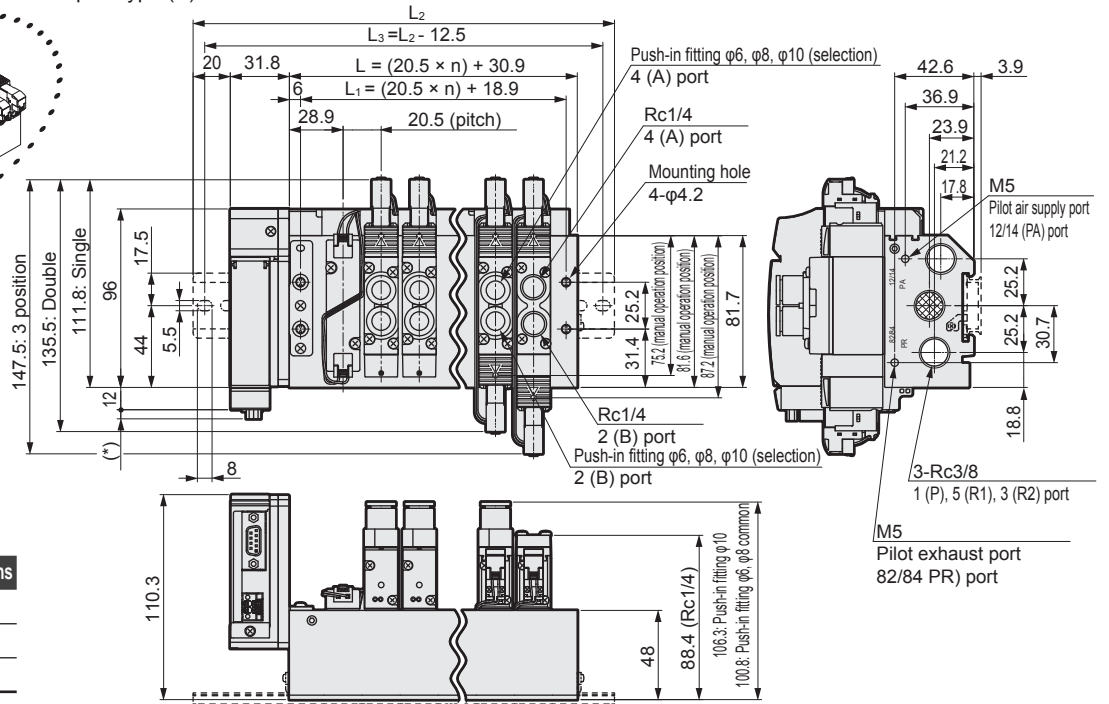
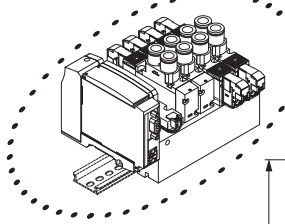


| Serial transmission | (*) Dimensions |
|---------------------|----------------|
| T8G* | 1.0 |
| T8P* | 4.9 |
| T8E* | 3.0 |

| 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 |

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety precautions

Manifold Specifications

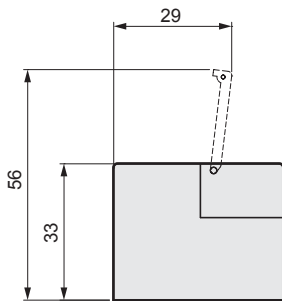
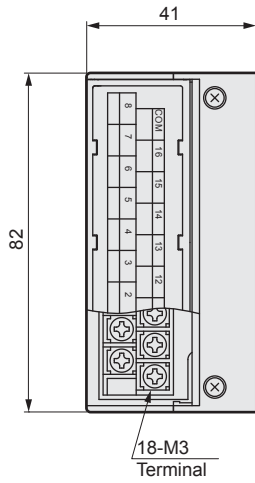
M4GA-T* Series

Reduced wiring manifold; base piping

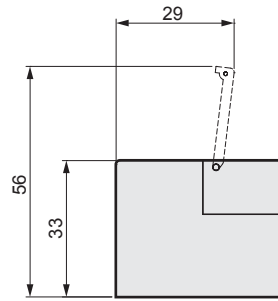
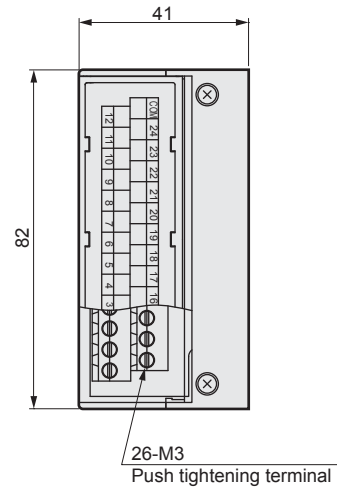
Electrical block part: dimensions

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

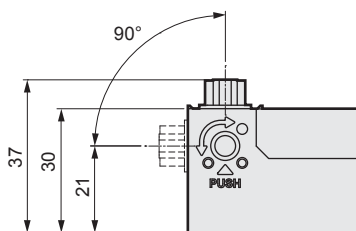
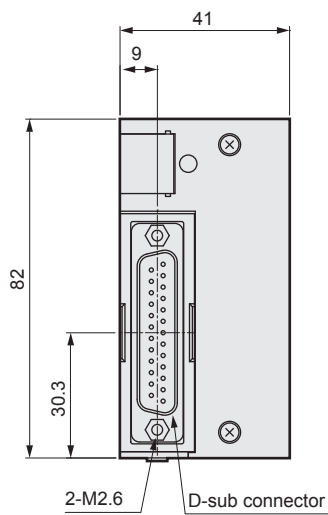
● Common terminal block (M3 thread) T10



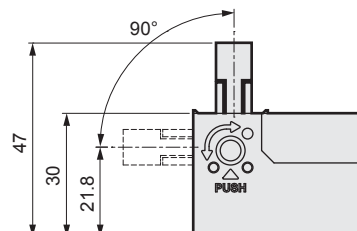
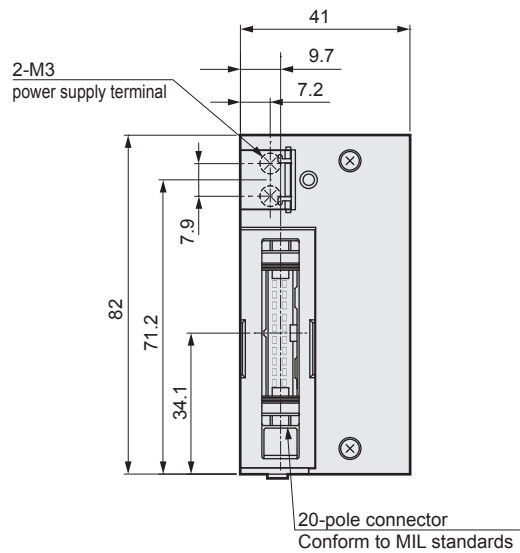
● Common terminal block (push tightening) T11



● D sub-connector T30

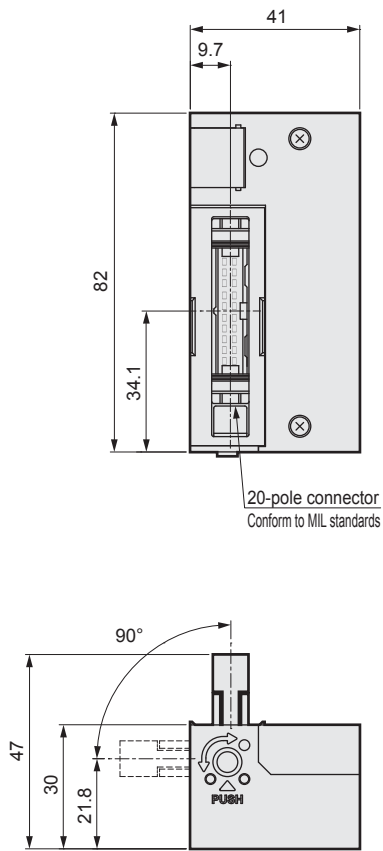


● 20 pin flat cable connector (with power supply terminal) T50

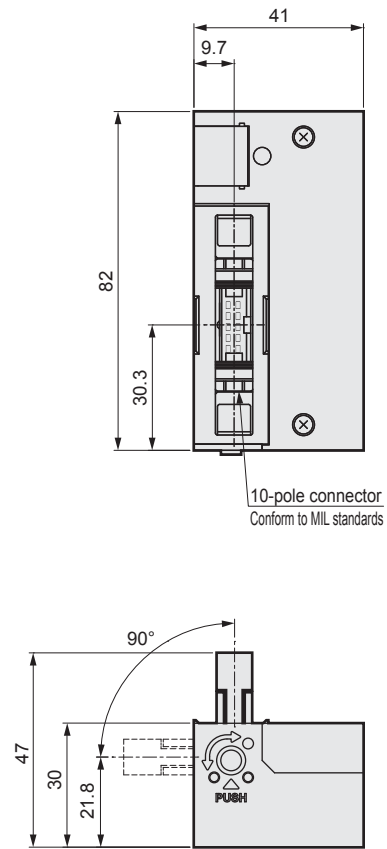


Electrical block part: dimensions

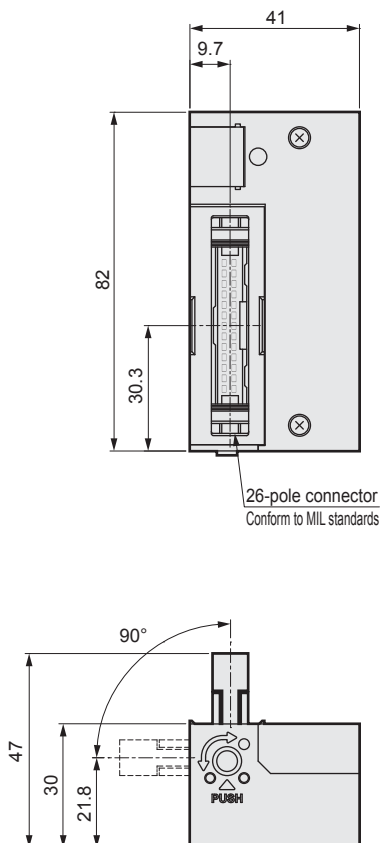
- 20 pin flat cable connector (without power supply terminal)
T51



- 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

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

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

MEMO

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

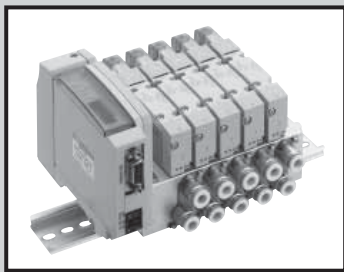
M4GD/E

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 $\phi 100$



4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

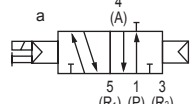
Technical data

Safety
precautions

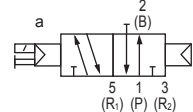
Manifold
Specifications

JIS symbol

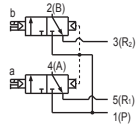
- 3 port valve
2-position single N.C. type



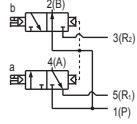
- 2-position single N.O. type



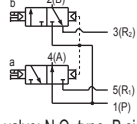
- Dual 3 port valve integrated type
(A side valve: N.C. type, B side valve: N.C. type)



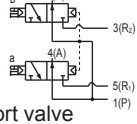
(A side valve: N.C. type, B side valve: N.O. type)



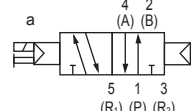
(A side valve: N.O. type, B side valve: N.C. type)



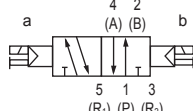
(A side valve: N.O. type, B side valve: N.O. type)



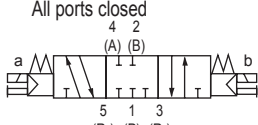
- 5 port valve
2-position single



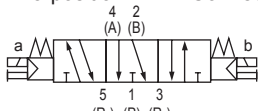
- 2-position double



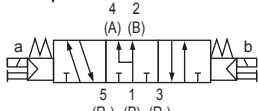
- 3-position



- 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 |

Electrical specification

| Descriptions | | | | | |
|------------------------------------|-------------------------------------|-------------|--------|-----------|--|
| Rated voltage | T1*, T30*, T5* | 24 VDC | | T6*, T8* | |
| | T6*, T8* | 12 VDC | 24 VDC | | |
| Voltage fluctuation range (Note 4) | | ±10% | | +10%, -5% | |
| Holding current A | Standard | 0.017 | 0.034 | 0.017 | |
| | With low heat energy-saving circuit | 0.005 | 0.010 | 0.005 | |
| 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 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.
- 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 to 0.7 MPa.
- 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 | | 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 2-position | 0.86 | 0.35 | 1.1 (0.67) | 0.22 (0.23) | |
| | | 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 2-position | 1.7 | 0.44 | 2.1 (1.6) | 0.32 (0.30) | |
| | | 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 |
| | 2-position | | 3.5 | 0.34 | 3.8 (2.6) | 0.11 (0.27) |
| All ports closed | | 3.1 | 0.33 | 3.3 | 0.22 | |
| M4GB3 | 3-position | 3.0 | 0.30 | 3.8 (2.7) | 0.11 (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.

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 | | Standard wiring (sequential): Blank <table border="1"> <tr> <td>Connector pin No.</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>Valve solenoid no.</td> <td>1a</td> <td>2a</td> <td>2b</td> <td>3a</td> <td>4a</td> <td>4b</td> </tr> </table> | | Connector pin No. | 1 | 2 | 3 | 4 | 5 | 6 | Valve solenoid no. | 1a | 2a | 2b | 3a | 4a | 4b | Double wiring: W <table border="1"> <tr> <td>Connector pin No.</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> </tr> <tr> <td>Valve solenoid no.</td> <td>1a</td> <td>Void</td> <td>2a</td> <td>2b</td> <td>3a</td> <td>Void</td> <td>4a</td> <td>4b</td> </tr> </table> | | Connector pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Valve solenoid no. | 1a | Void | 2a | 2b | 3a | Void | 4a | 4b |
| Connector pin No. | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve solenoid no. | 1a | 2a | 2b | 3a | 4a | 4b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve solenoid no. | 1a | Void | 2a | 2b | 3a | Void | 4a | 4b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Serial transmission slave unit specifications

| Descriptions | T6G1 <small>Note 1</small> | T6C0 T6C1 <small>Note 2</small> | T6A0 T6A1 <small>Note 3</small> | T6E0 T6E1 | T6J0 T6J1 <small>Note 3</small> |
|----------------------|--|--|---|------------------------------------|---|
| | Network name | CC-Link | CompoBus/S | UNIWIRESYSTEM | S-LINK |
| Power supply voltage | Unit side: 24 VDC ±10% Valve side: 24 VDC +10% ± -5% | 24 VDC +10% ± -5% (Unit power supply/valve power supply common terminal) | | | |
| Current consumption | Unit side: 100 mA or less (when all output points are ON) Valve side: 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 | | | |
| 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 | 24 VDC ± 10% 24 VDC+10%, -5% | | | | | | | |
| Current consumption | 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) | |
| Output points | T8*1: 15mA or less T8*2: 20mA or less (when all output points are ON) Load current is not included | | | | | | | |
| Occupied number | T8*1: 16 points T8*2: 32 points | | | | | | | |
| Operation display | 1 station LED (power supply and communication 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.

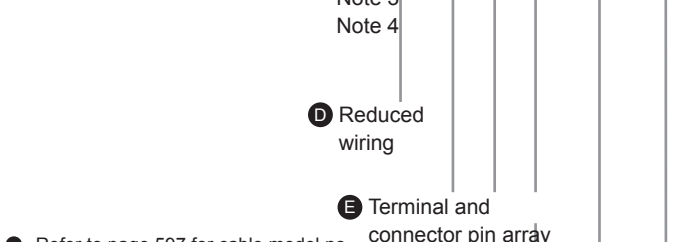
M **3GB1** **1** **0R** - **C6** - **T30** **W** **H** **D** - **3**

● 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**



- 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.

| 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 | Note 1, 2 | 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 | Note 1, 2 | 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 | 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 Note 5 | ② | ③ | ② | ③ | ④ |
| C10 | φ10 push-in fitting Note 5 | | 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 | | |
| 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 | | 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 | ④ |
| CD10 | L type φ10 push-in fitting (downward) | | | | | ④ |
| CX | Push-in fitting mix | ② | ③ | ② | ③ | ④ |
| 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. | | | | | |

| I 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 | 4GB3 |
| ④ 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 | ● | ● | ● | ● | ● |

| | | ④ 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 | | NPN 8 points | ● | ● | ● | ● | ● |
| T6J1 | UNIWIRESYSTEM | 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 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

4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

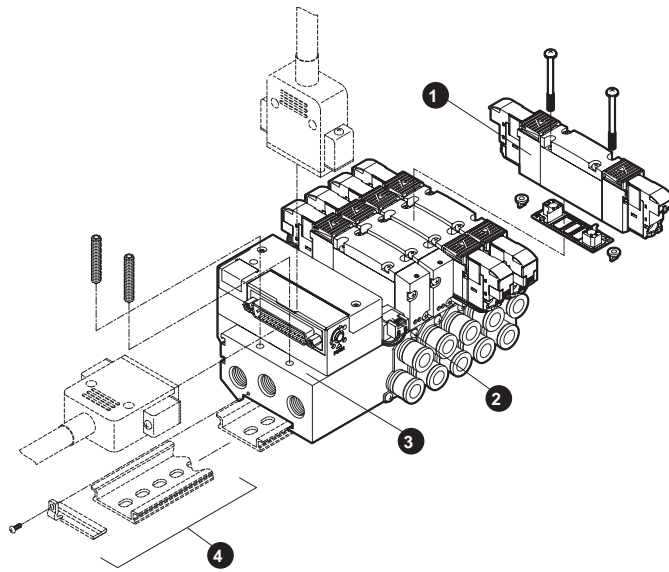
Manifold
Specifications

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

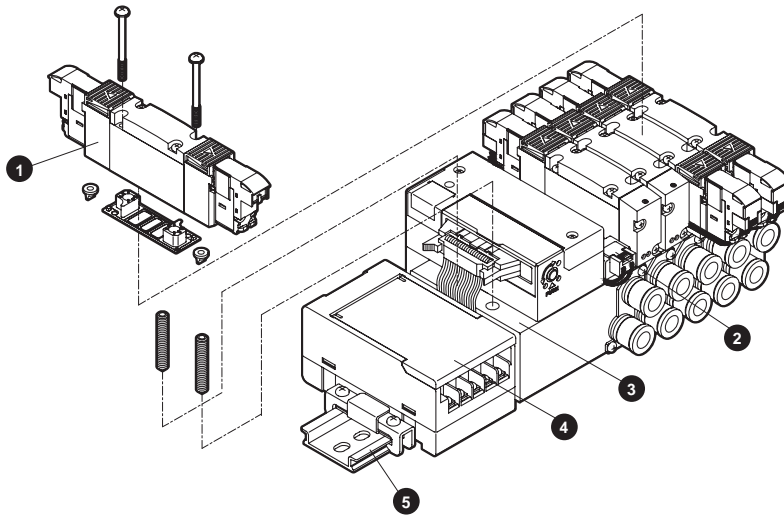
Reduced wiring manifold; body piping

Manifold components explanation and parts list

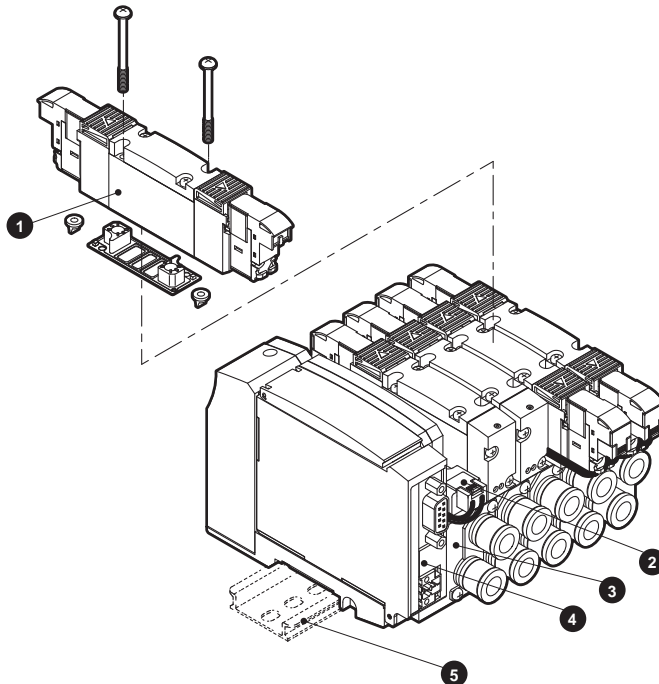
● T30



● 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.

| |
|-------------------------|
| 4GAB |
| M4GAB |
| MN4GAB |
| 4GAB Master valve |
| 4GD/E |
| M4GD/E |
| MN4GD/E |
| Technical data |
| Safety precautions |
| Manifold Specifications |

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: Ozone/cutting oil specifications | | | |
| - | 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 | | | |
| | | | - | Cartridge type push-in fitting and related parts | |
| | | | | 4G1 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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.

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautionsManifold
Specifications

M4GB1-T* Series

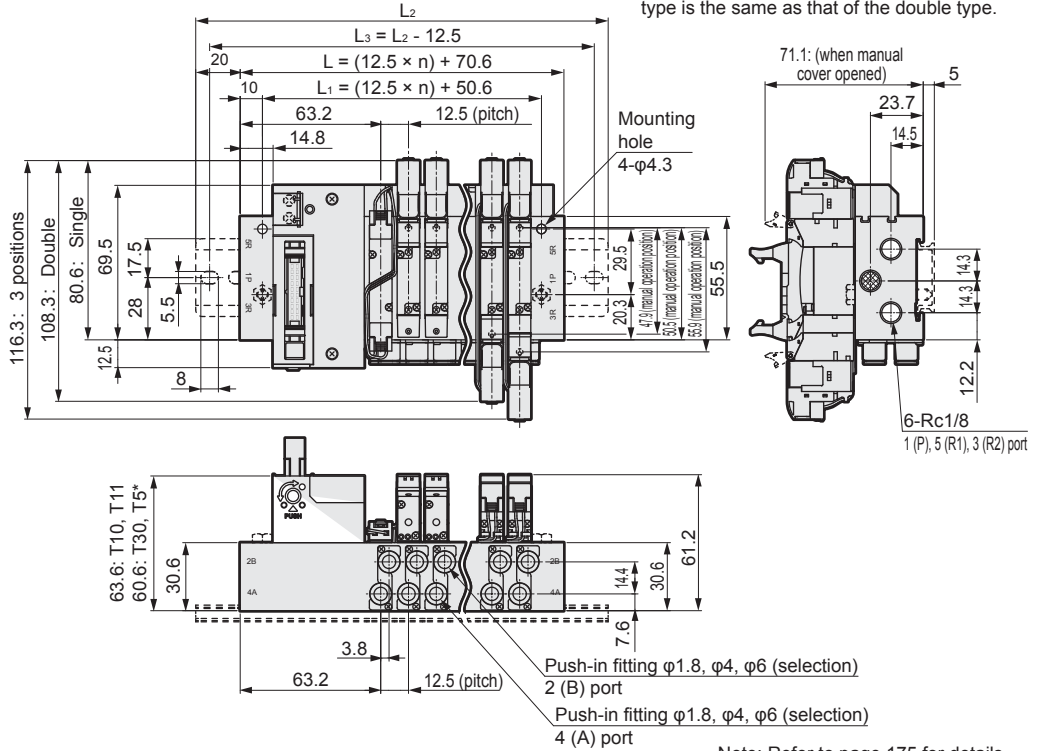
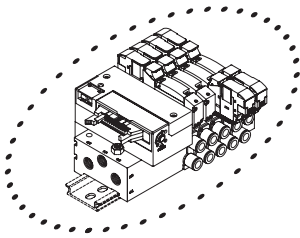
Reduced wiring manifold; base piping

Dimensions 

M4GB1

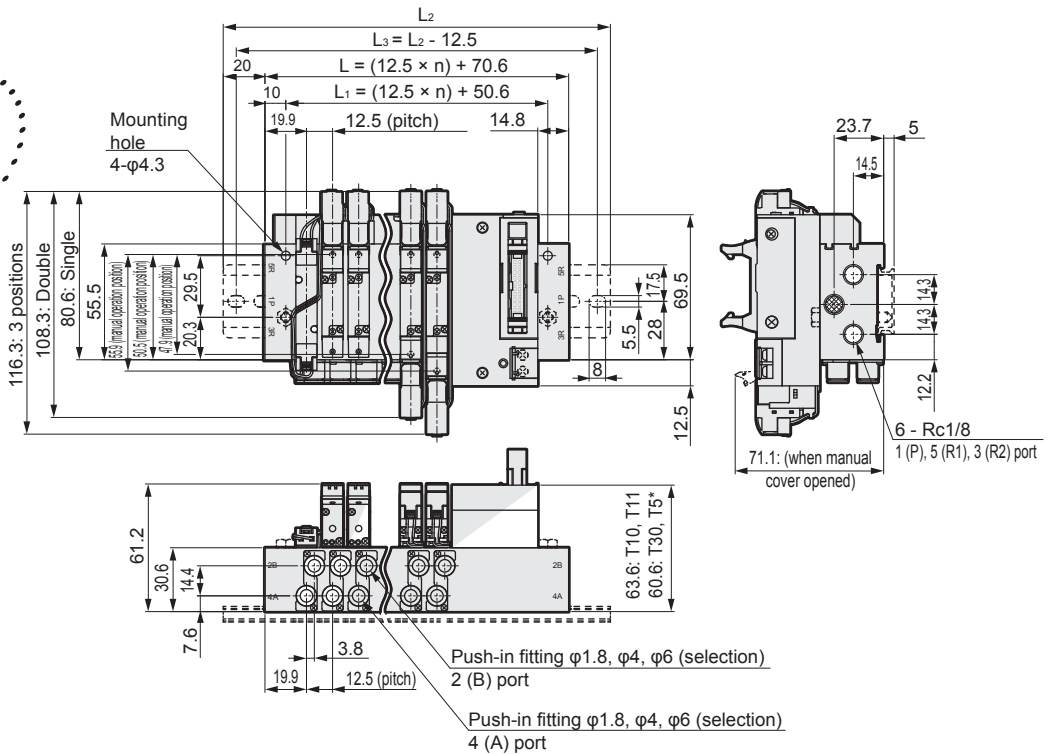
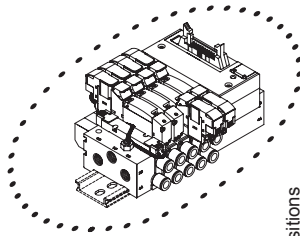
● Reduced wiring Left side type (T10/T11/T30/T50/T51/T52/T53)

* 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).



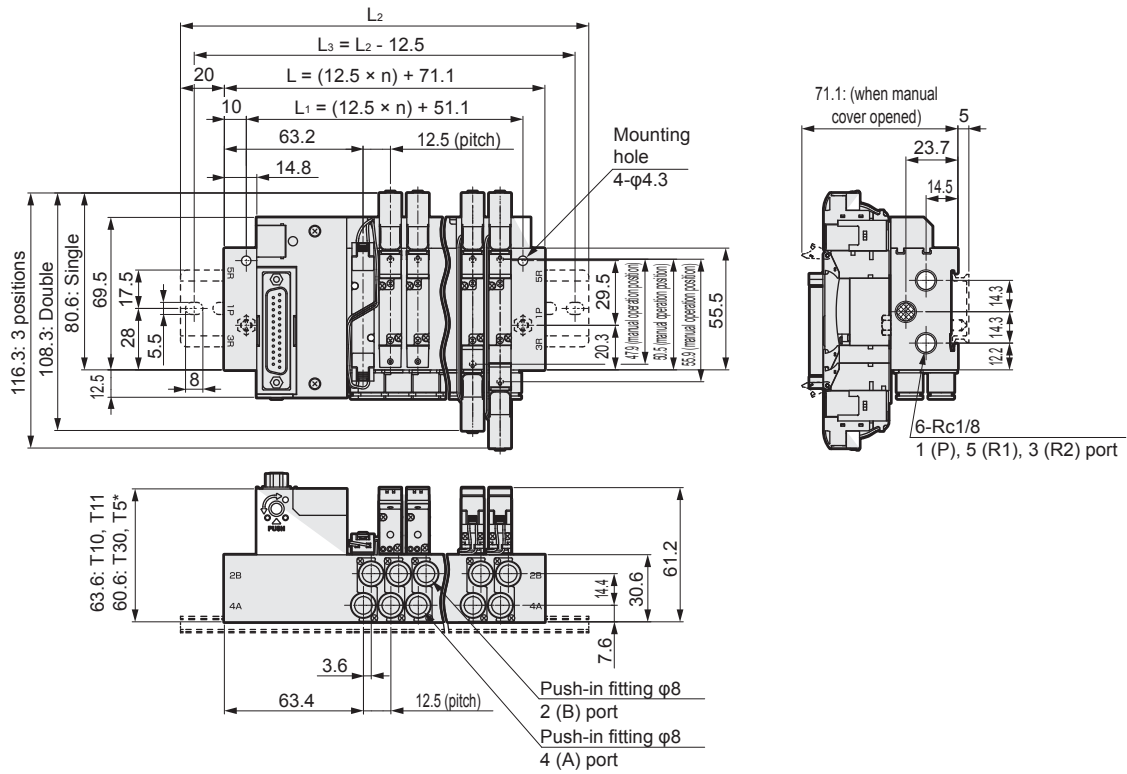
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 95.6 | 108.1 | 120.6 | 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 | | | | |

4GAB
 M4GAB
 MN4GAB
 4GAB Master valve
 4GD/E
 M4GD/E
 MN4GD/E
 Technical data
 Safety precautions
 Manifold Specifications

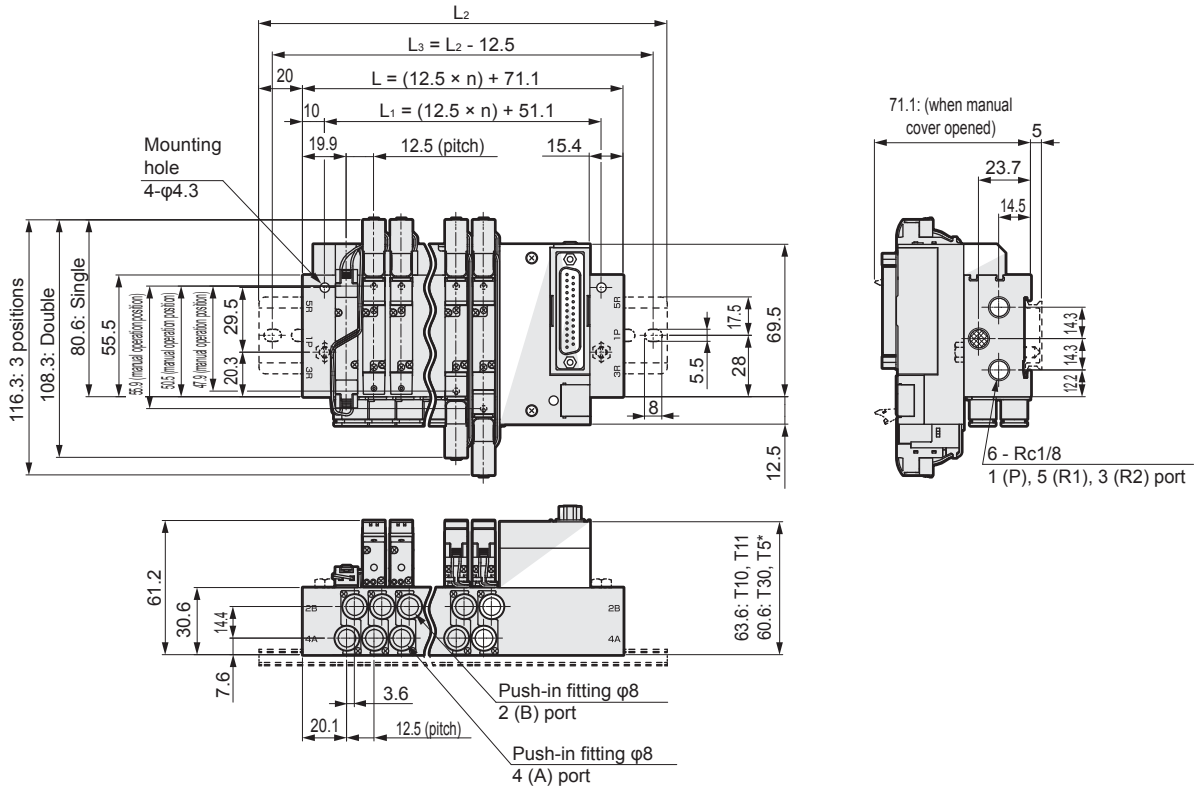
Dimensions

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 | | | | |

M4GB1-T* Series

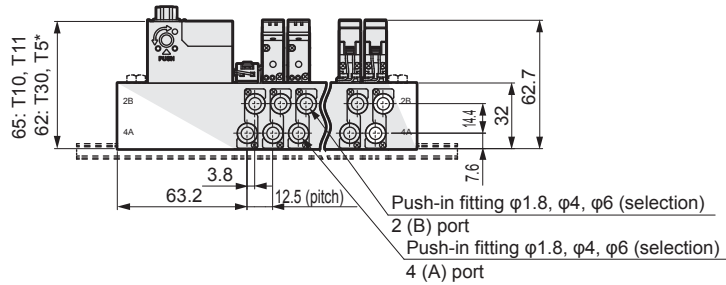
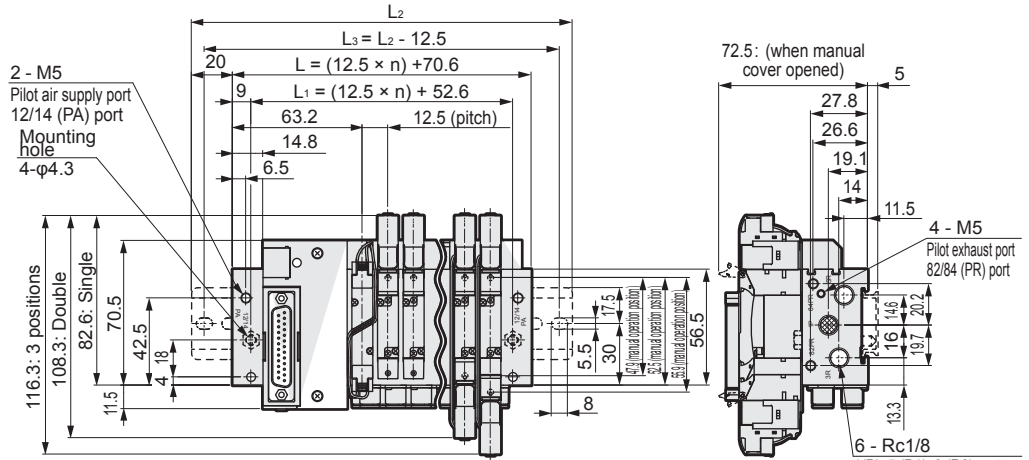
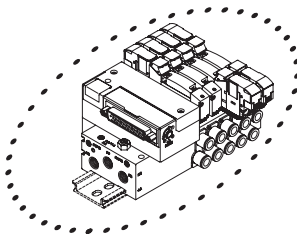
Reduced wiring manifold; base piping

Dimensions 

M4GB1

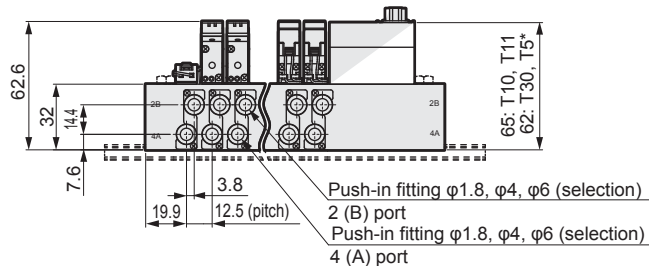
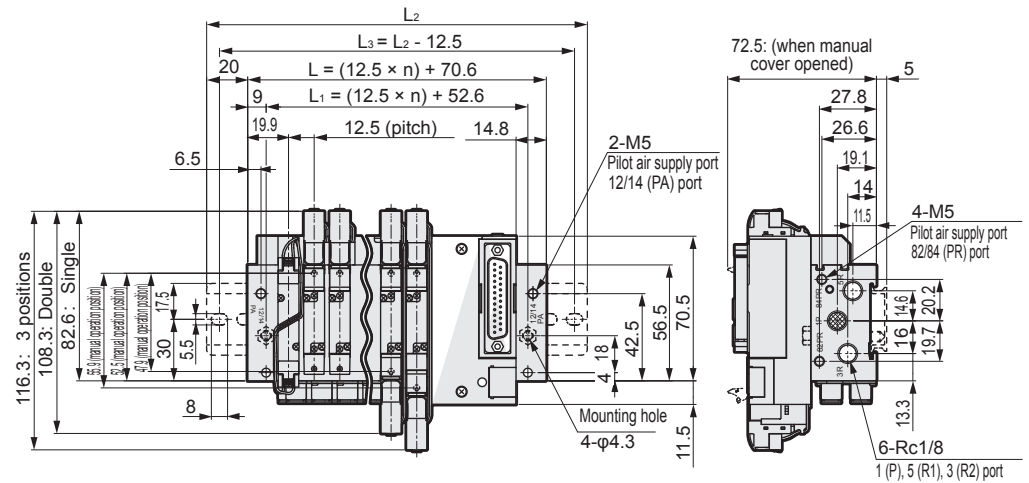
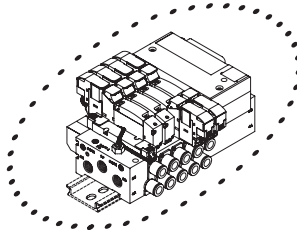
- Reduced wiring Left side type (T10/T11/T30/T50/T51/T52/T53)
External pilot (K)

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



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)



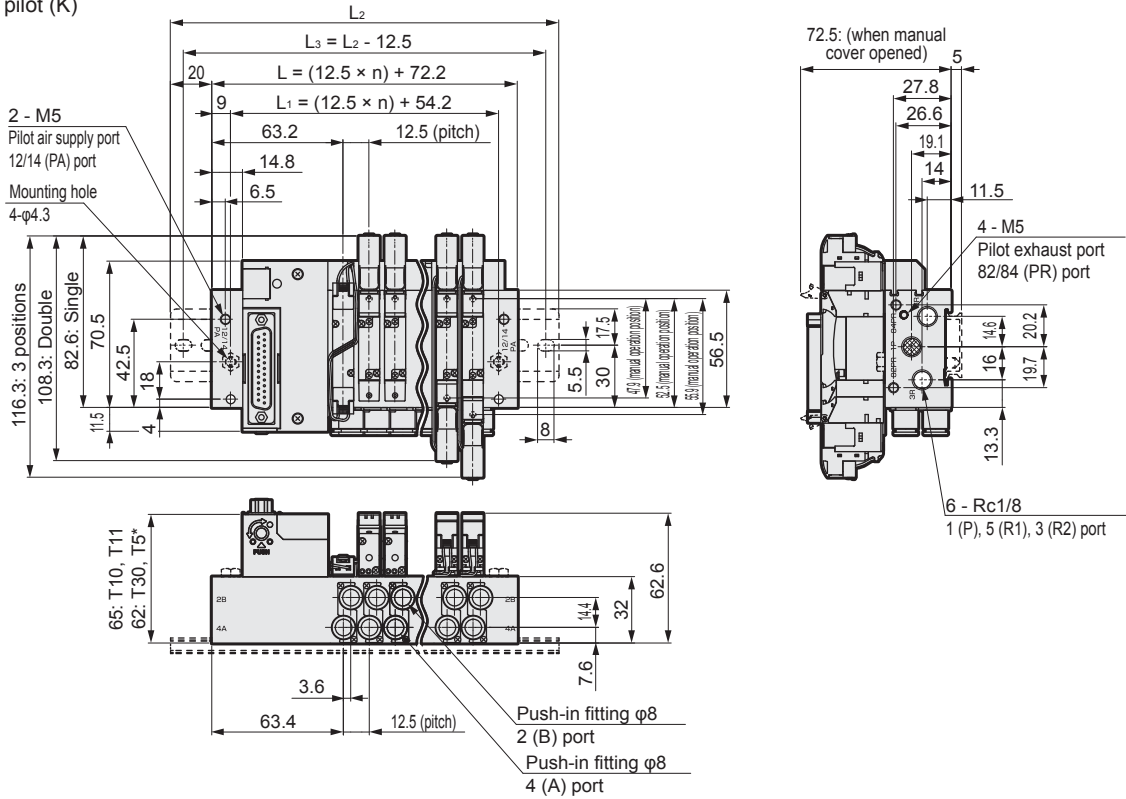
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 95.6 | 108.1 | 120.6 | 133.1 | 145.6 | 158.1 | 170.6 | 183.1 | 195.6 | 208.1 | 220.6 |
| L ₁ | 77.6 | 90.1 | 102.6 | 115.1 | 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 |

4GAB
 M4GAB
 MN4GAB
 4GAB Master valve
 4GD/E
 M4GD/E
 MN4GD/E
 Technical data
 Safety precautions
 Manifold Specifications

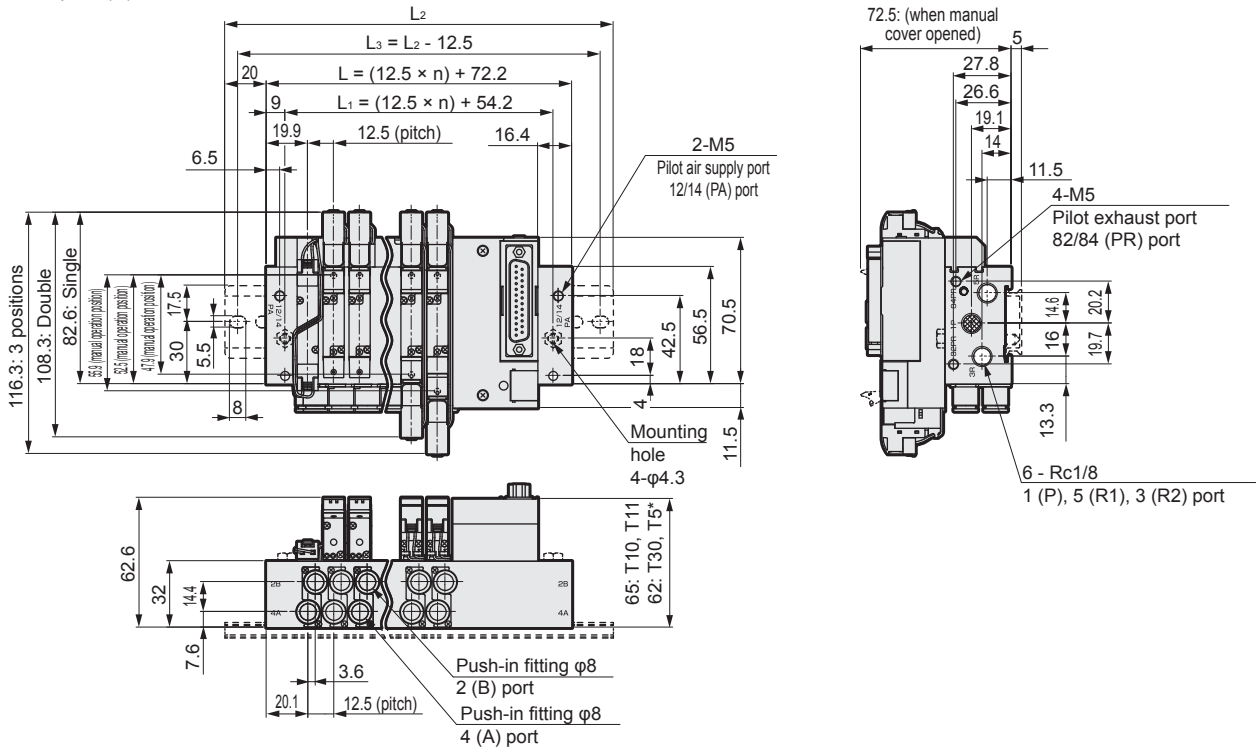
Dimensions

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 |

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

M4GB1-T6D Series

Reduced wiring manifold; base piping; serial transmission

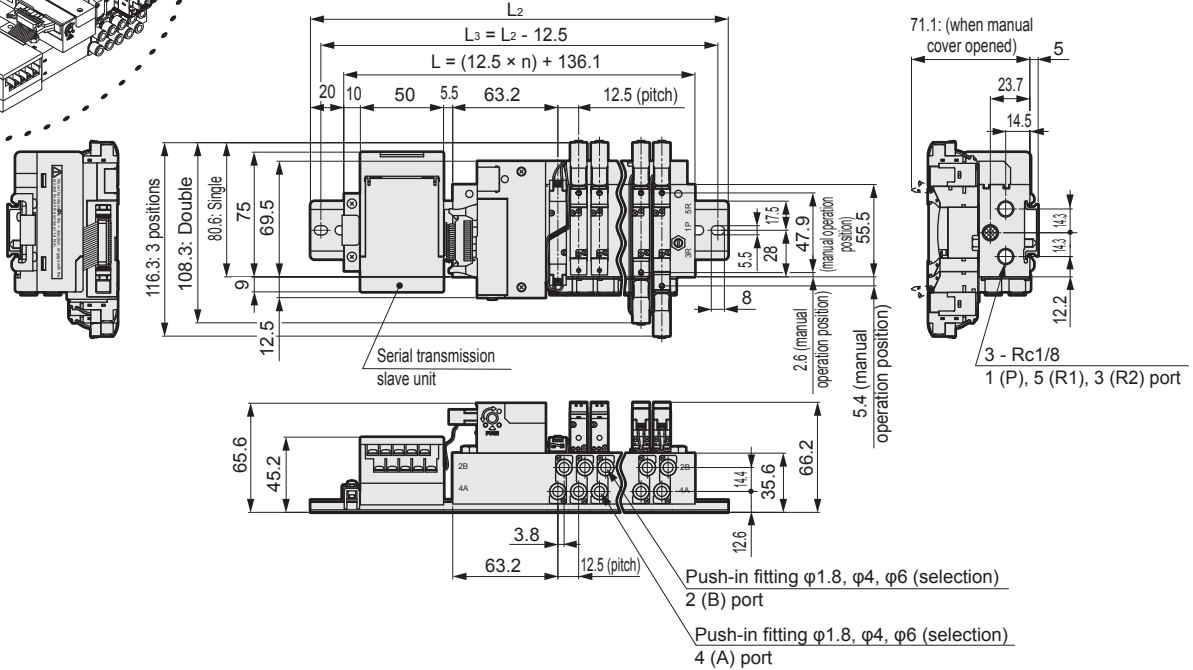
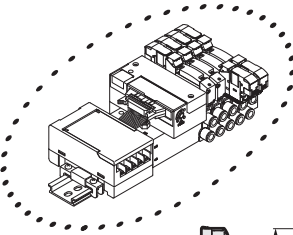
Dimensions



M4GB1

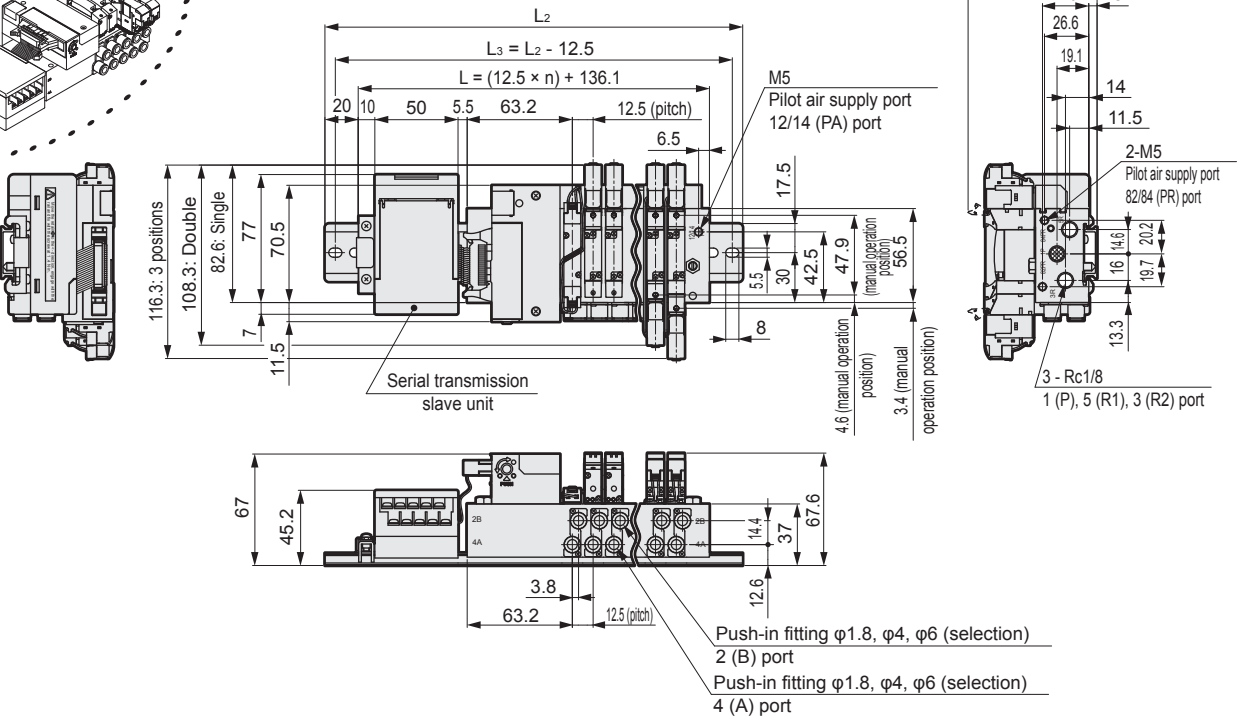
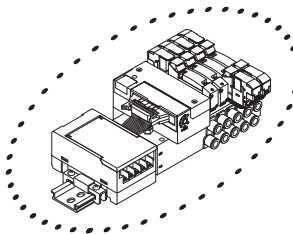
- Serial transmission (T6*)
DIN rail mounting type (D)

*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).



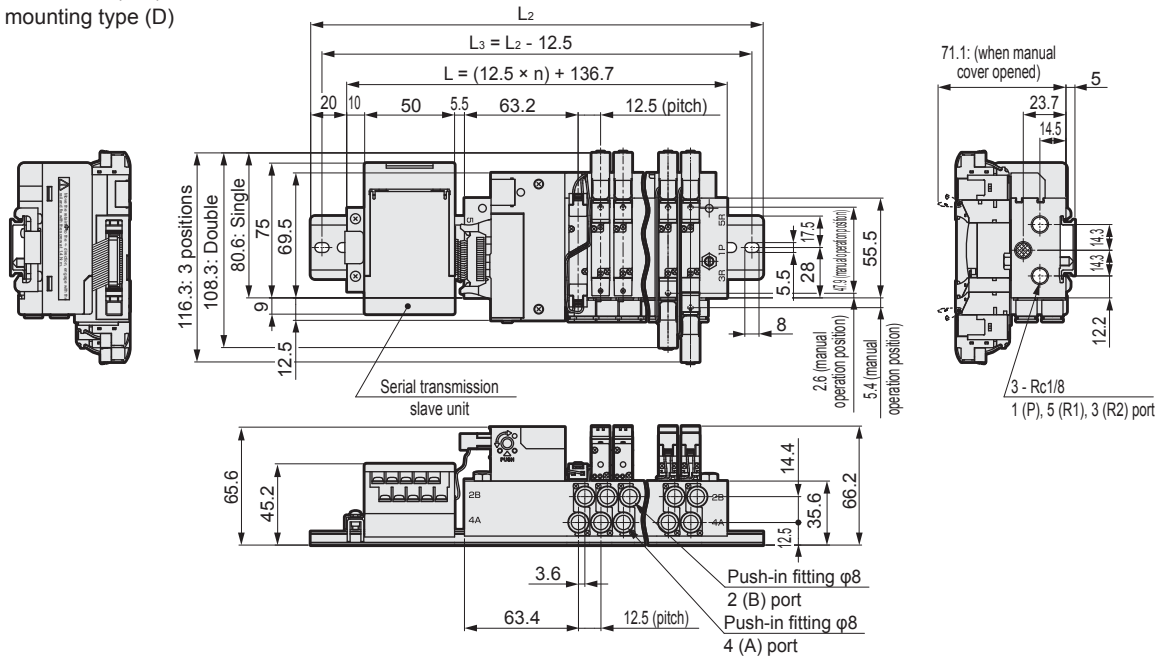
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 161.1 | 173.6 | 186.1 | 198.6 | 211.1 | 223.6 | 236.1 | 248.6 | 261.1 | 273.6 | 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 |

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

Dimensions

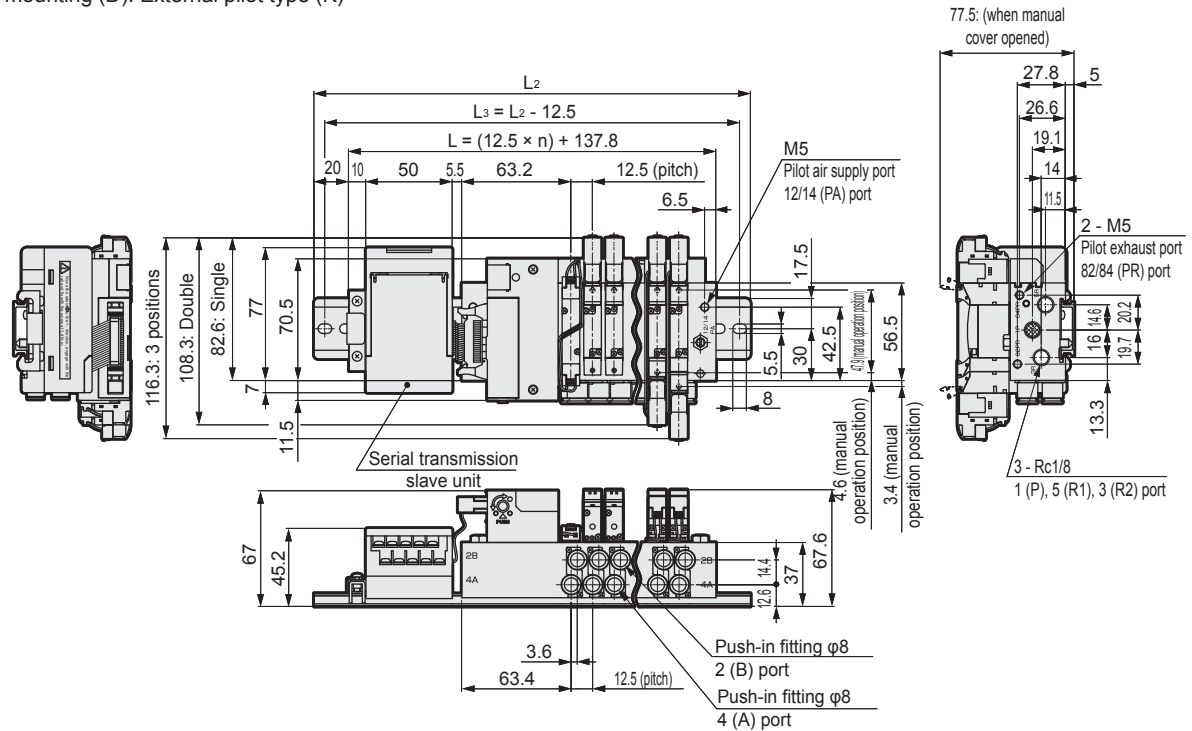
M4GB1-C8

- 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 |

4GAB
M4GAB/B
MN4GAB/B
MN4GAB/B
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

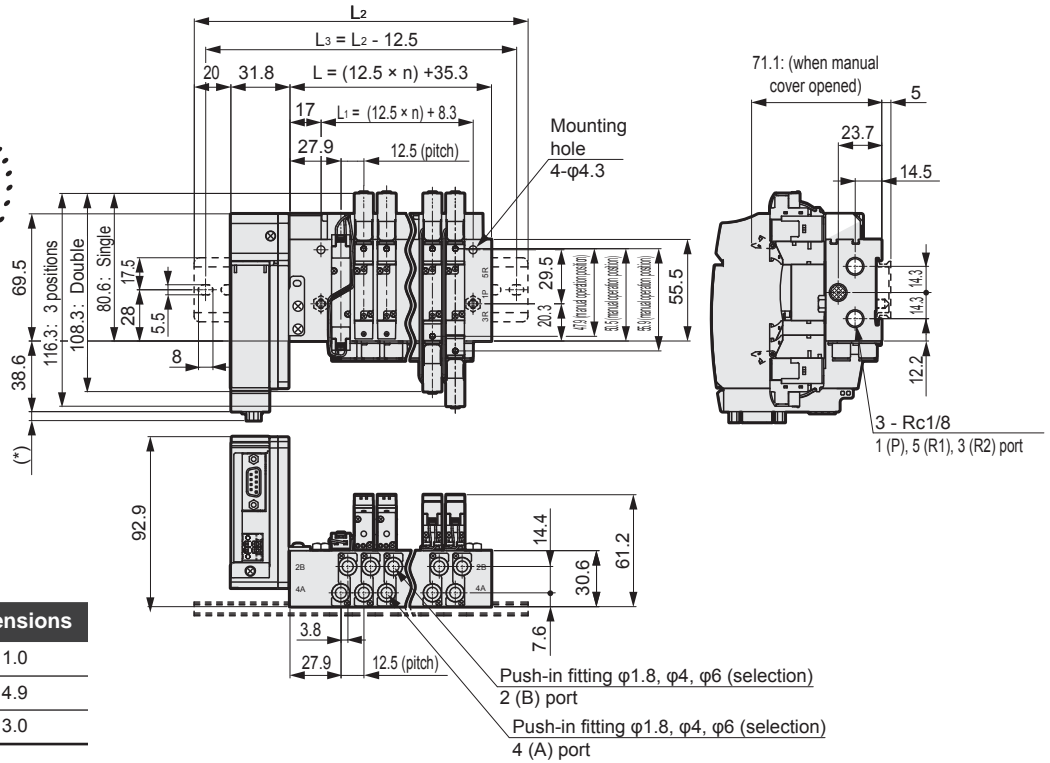
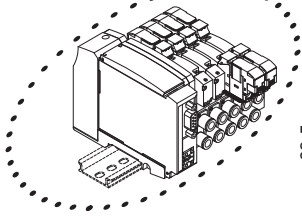
M4GB1-T8* Series

Reduced wiring manifold; base piping; serial transmission

Dimensions 

M4GB1

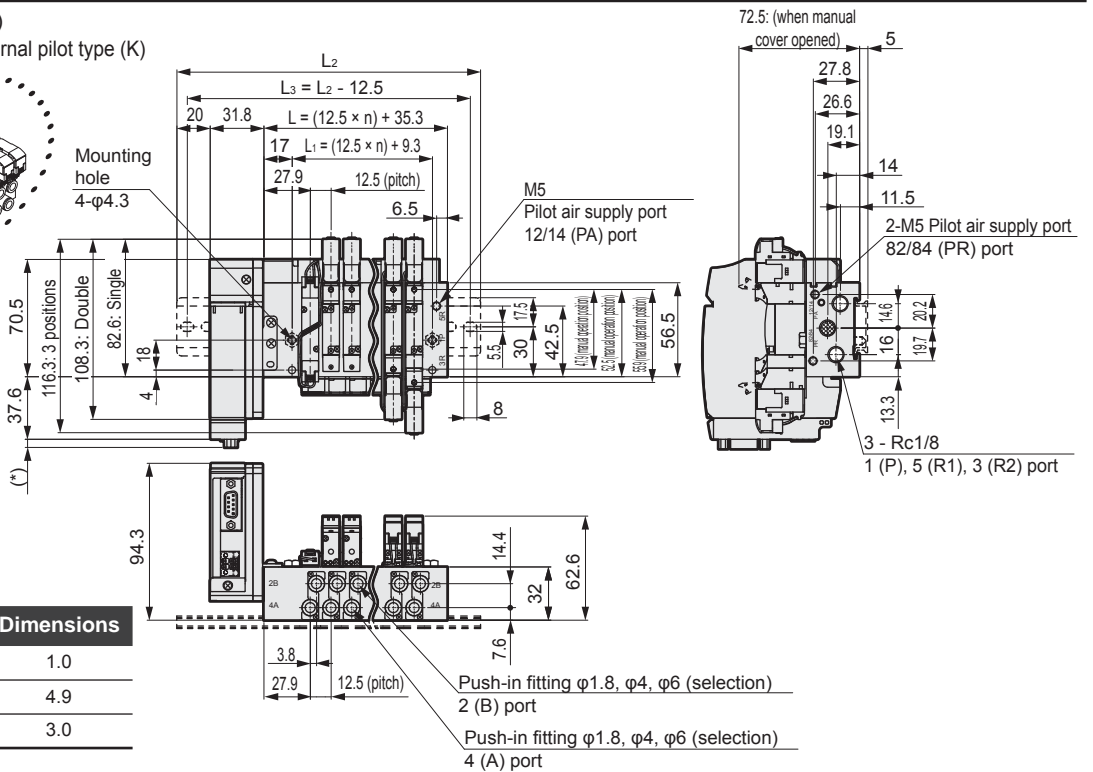
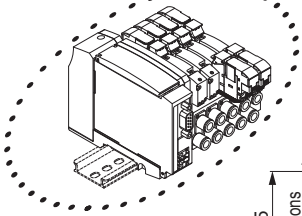
- Serial transmission (T8*)
- DIN rail mounting type (D)



| 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)



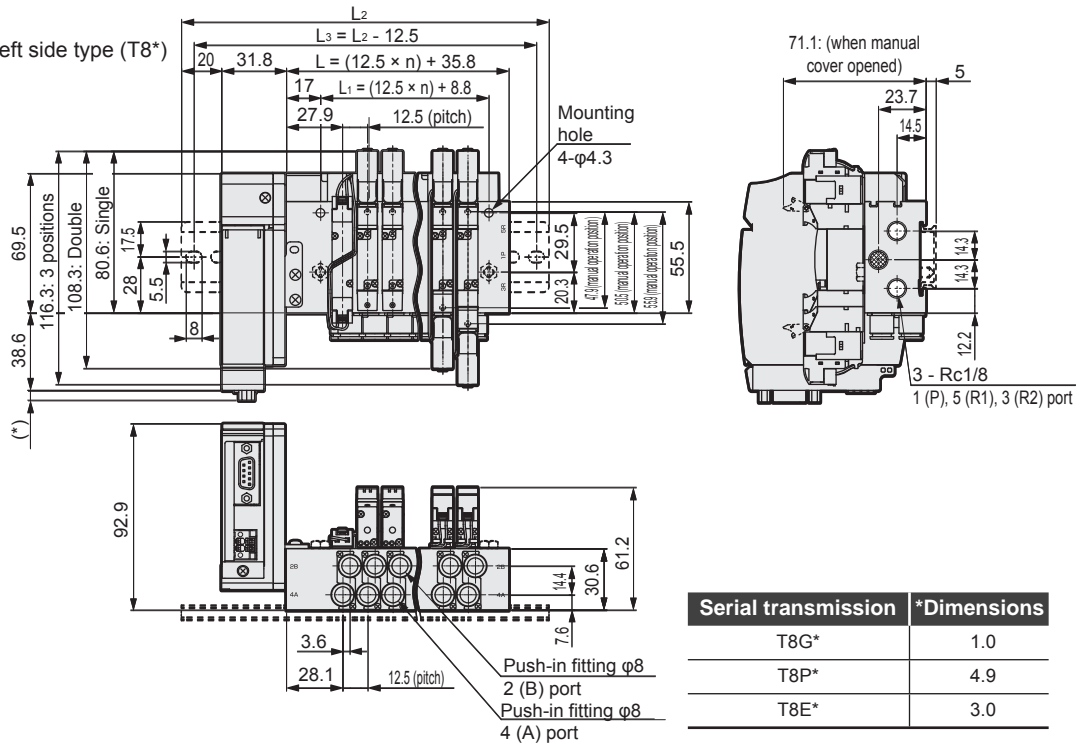
| Serial transmission | *Dimensions |
|---------------------|-------------|
| T8G* | 1.0 |
| T8P* | 4.9 |
| T8E* | 3.0 |

| 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 |

Dimensions

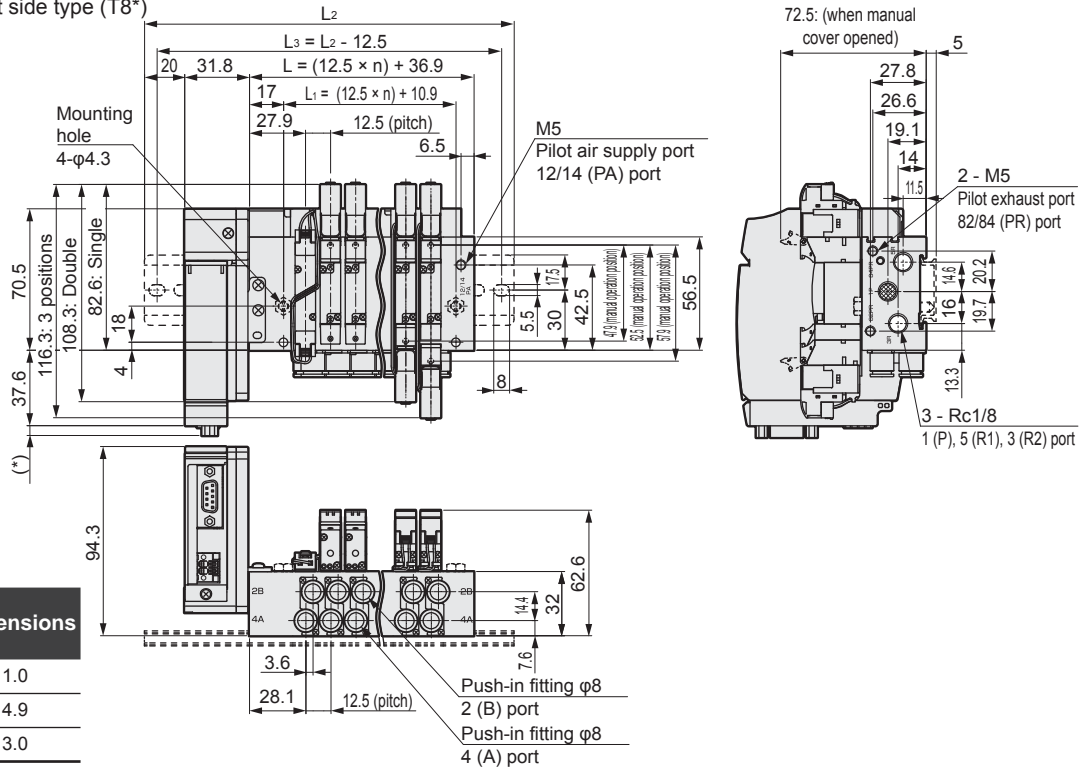
M4GB1-C8

● 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)



| 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 |

4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

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)

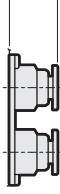
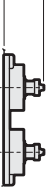
8.8

6.7

10.7

11.9

13.2



● Fitting straight, single plug

● $\phi 1.8$ (CFNC)

● $\phi 1.8$ (C18NC)

● $\phi 4$ (C4NC)

● $\phi 6$ (C6NC)

● $\phi 8$ (C8NC)

● $\phi 1.8$ (CFNO)

● $\phi 1.8$ (C18NO)

● $\phi 4$ (C4NO)

● $\phi 6$ (C6NO)

● $\phi 8$ (C8NO)

8.8

6.7

10.7

11.9

13.2

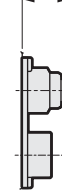
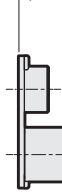
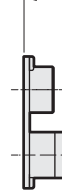
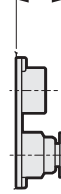
8.8

6.7

10.7

11.9

13.2



● 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)

17

7.2

6.8

25.2

9.9

10.5

26.2

10.9

10.5

17

7.2

6.8

25.2

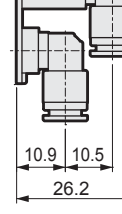
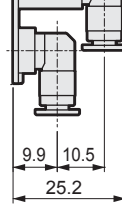
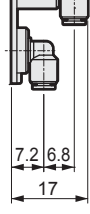
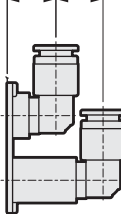
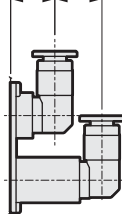
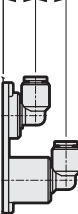
9.9

10.5

26.2

10.9

10.5



● 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)

17

14

25.2

20.4

26.2

21.4

10.2

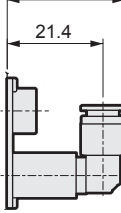
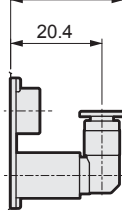
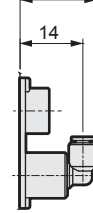
7.2

14.7

9.9

15.7

10.9



● 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)

7.2

10.2

9.9

14.7

10.9

15.7

14

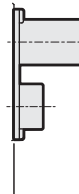
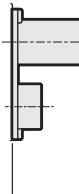
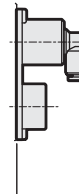
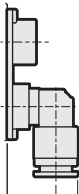
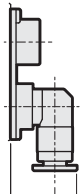
17

20.4

25.2

21.4

26.2



M4GB2-T* Series

Reduced wiring manifold; base piping

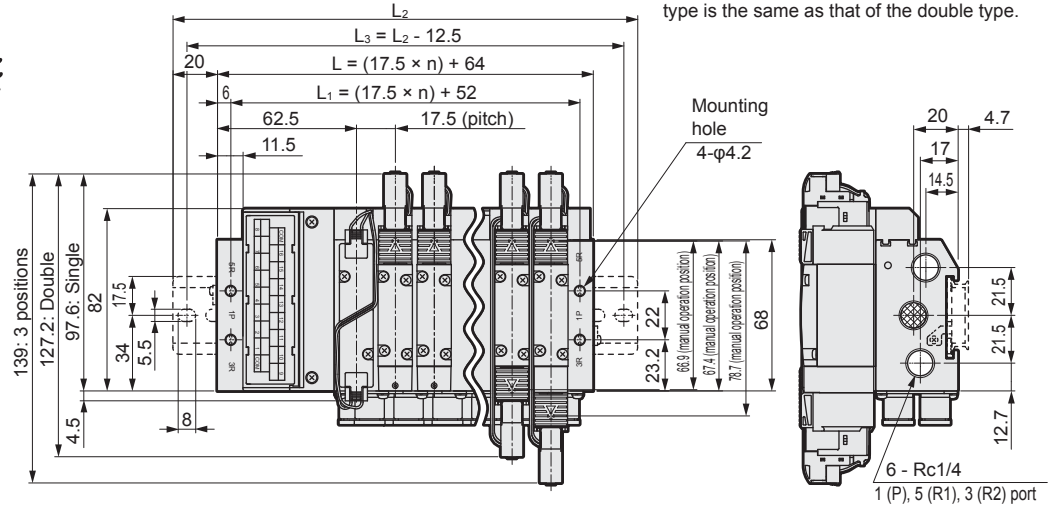
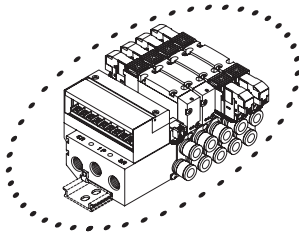
Dimensions



M4GB2

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

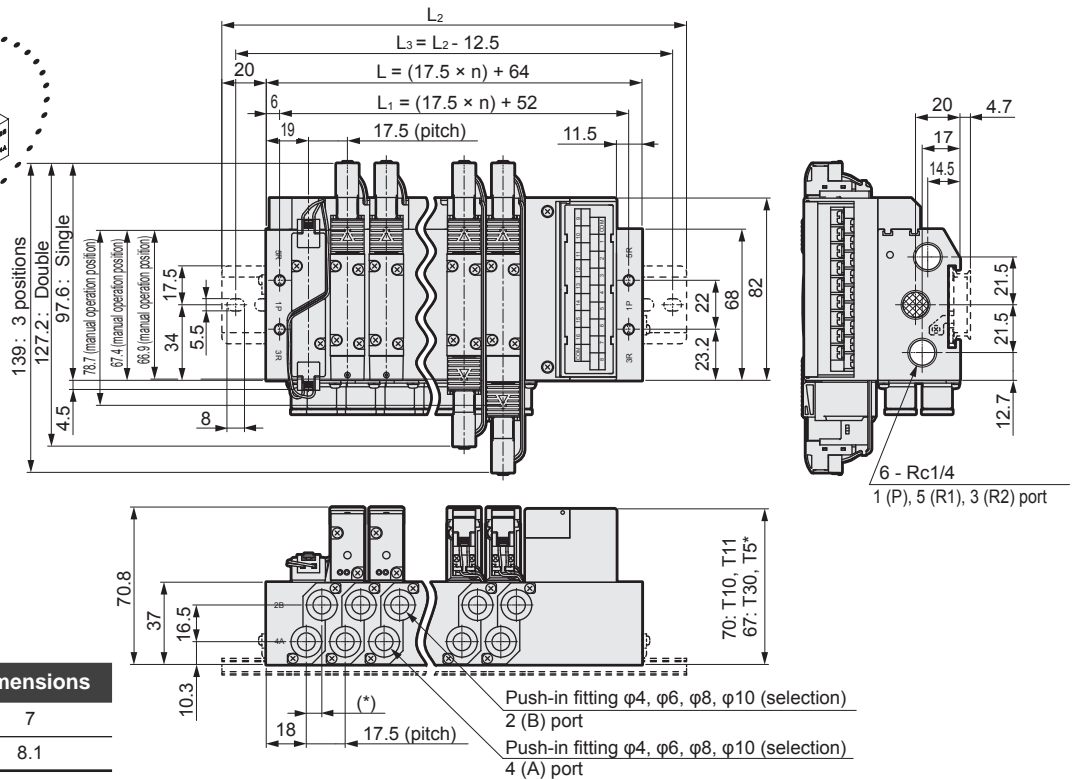
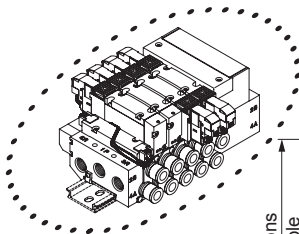
*1 This drawing shows T10. Refer to page 177 for detailed dimensions of the electrical block.
*2 The dimension of dual 3 port valve integrated type is the same as that of the double type.



| 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 | | | | |

M4GB2-T* Series

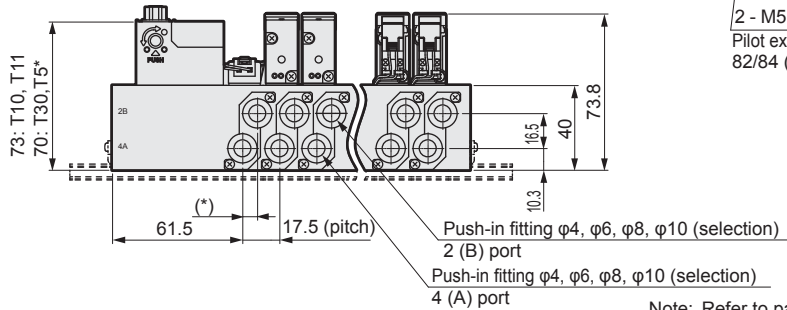
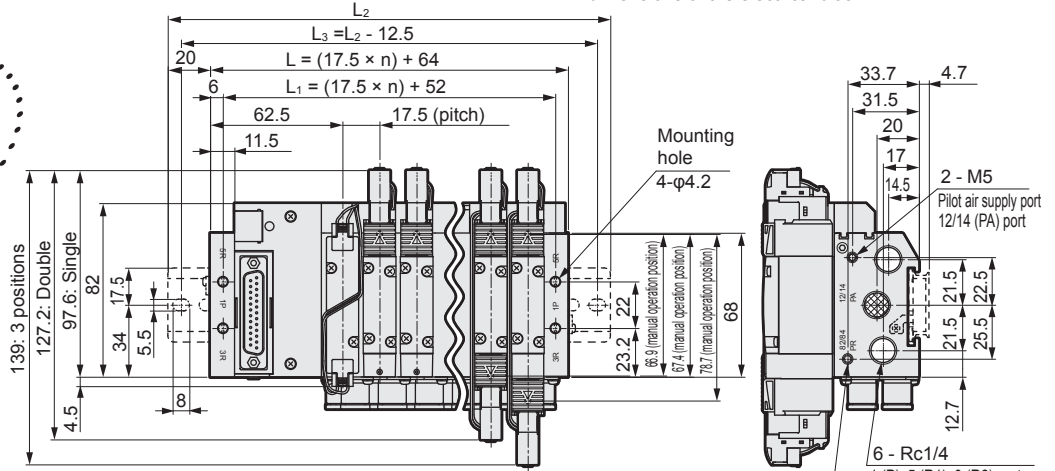
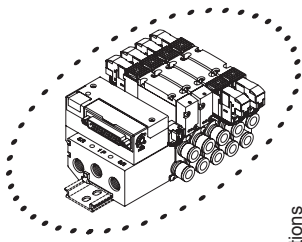
Reduced wiring manifold; base piping

Dimensions 

M4GB2

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

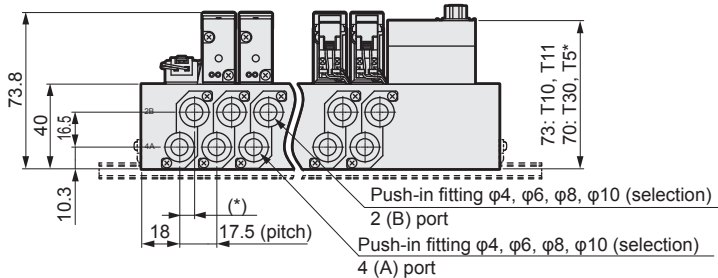
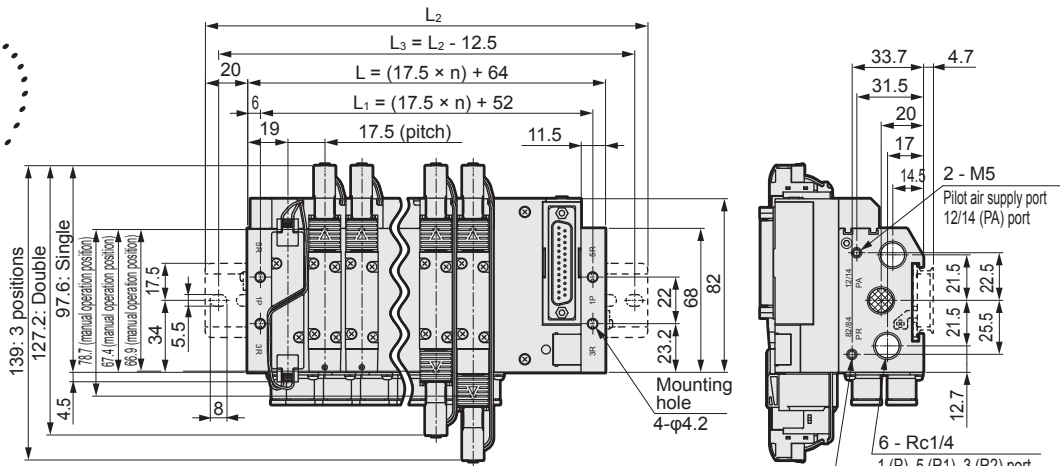
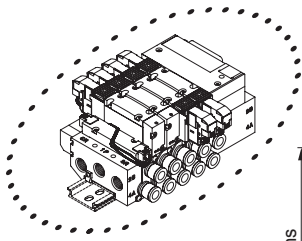
* This drawing shows T30. Refer to page 177 for detailed dimensions of the electrical block.



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

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

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

M4GB2-T6D Series

Reduced wiring manifold; base piping; serial transmission

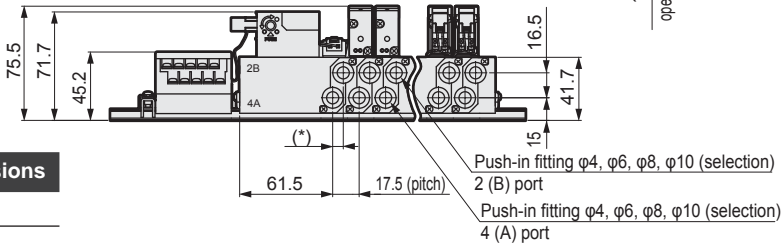
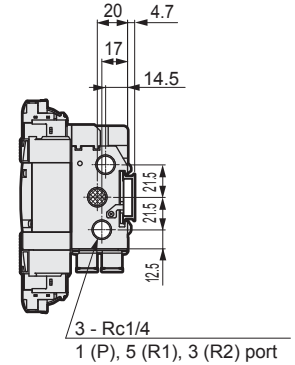
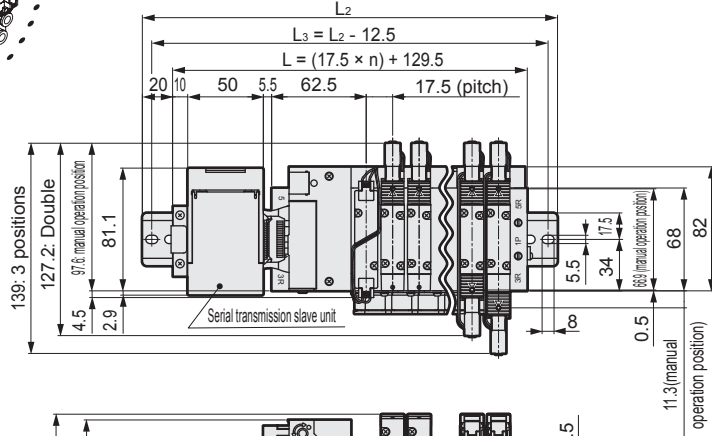
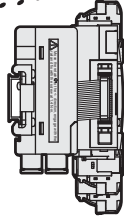
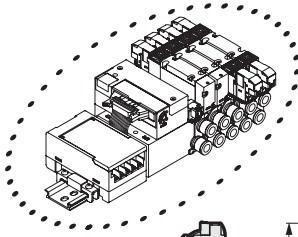
Dimensions



M4GB2

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

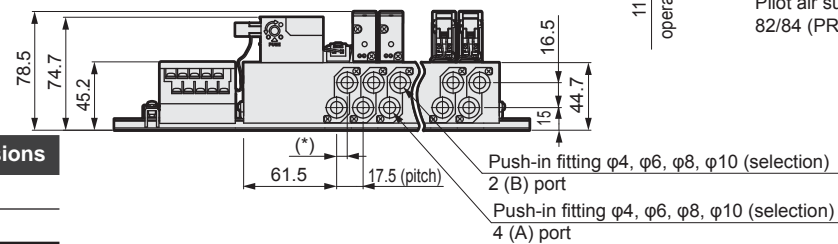
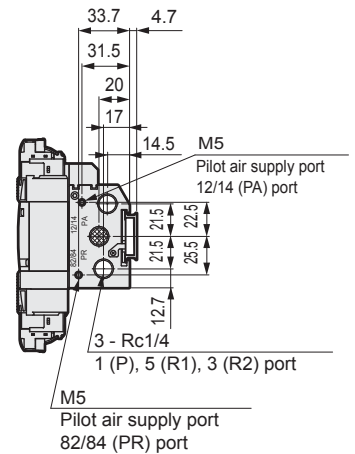
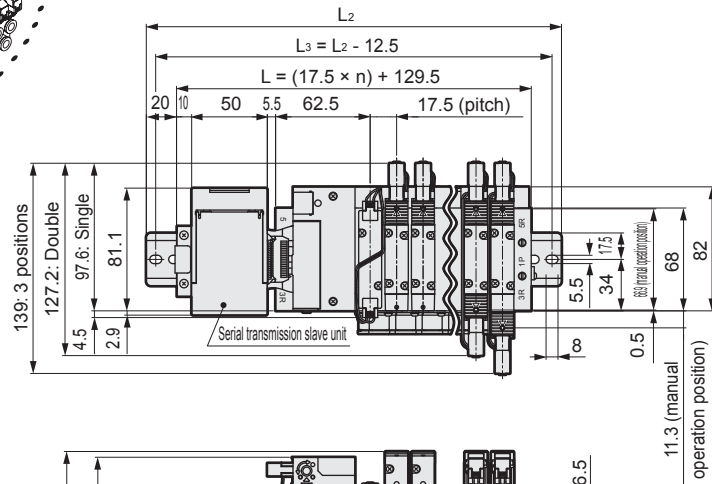
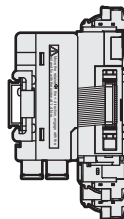
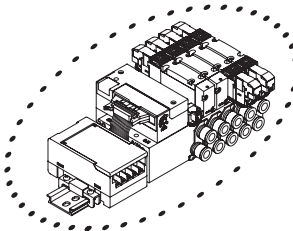
*The dimension of dual 3 port valve integrated type is the same as that of the double type.



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

- 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).



| 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 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 |

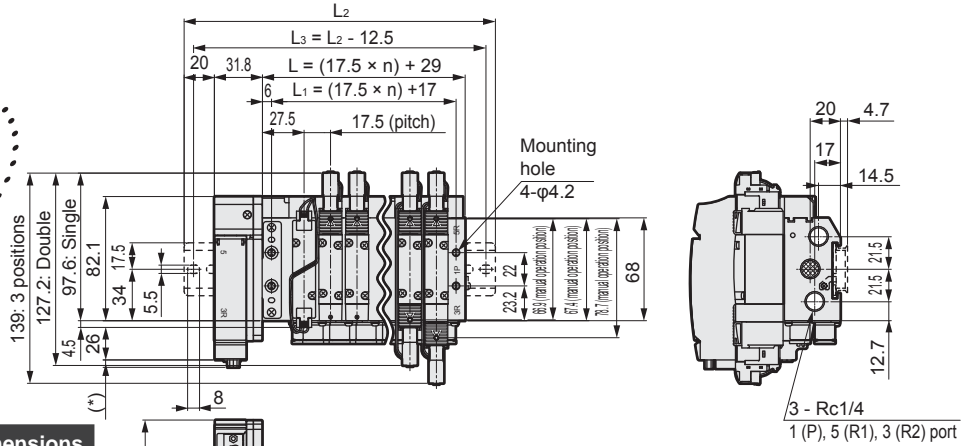
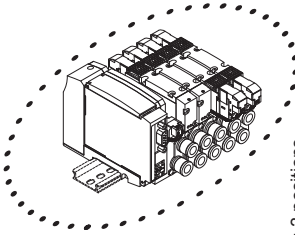
M4GB2-T8* Series

Reduced wiring manifold; base piping; serial transmission

Dimensions

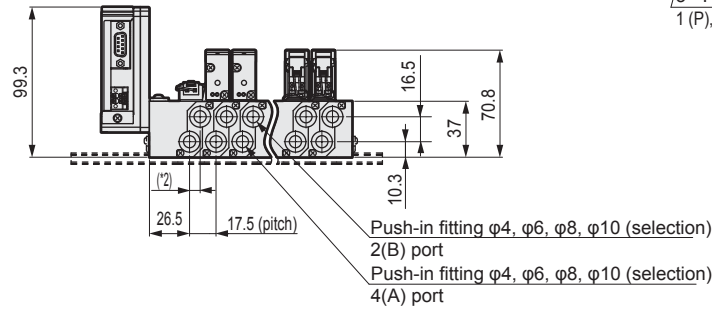
M4GB2

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



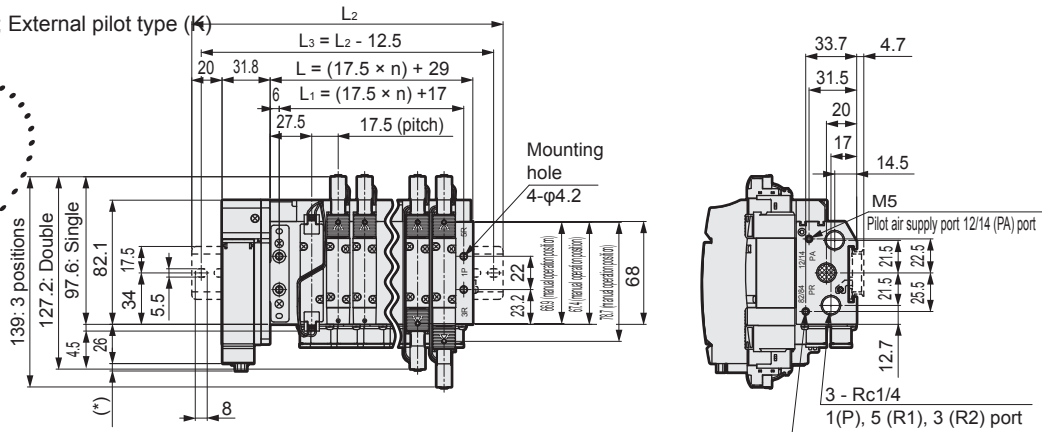
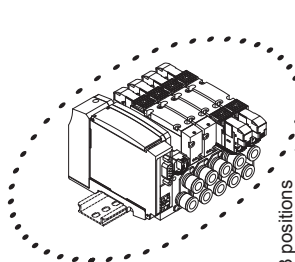
| Serial transmission | *Dimensions |
|---------------------|-------------|
| T8G* | 1.0 |
| T8P* | 4.9 |
| T8E* | 3.0 |

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



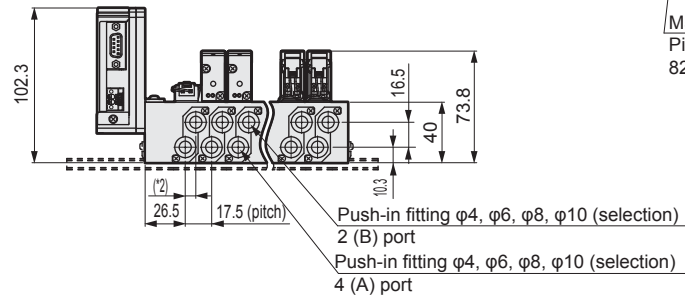
| Station no. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| L | 64.0 | 81.5 | 99.0 | 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 | | | | |

4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

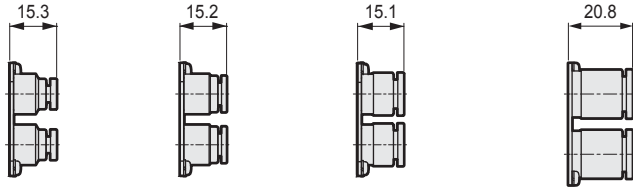
Manifold
Specifications

Dimensions

M4GB2

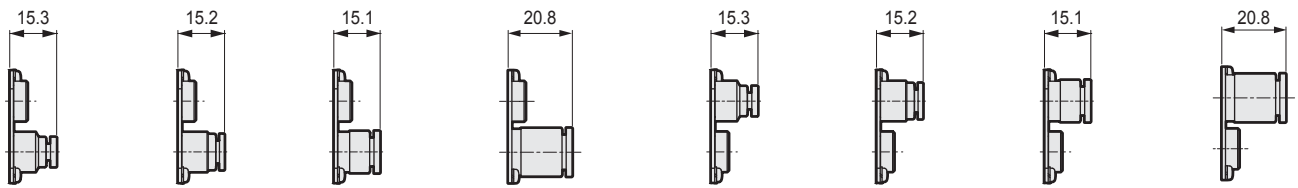
● Fitting straight

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



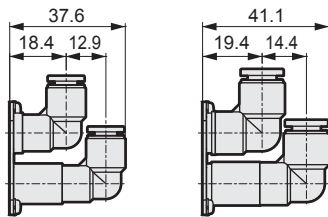
● Fitting straight, single plug

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



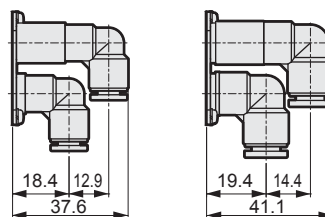
● Fitting L type (upward)

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



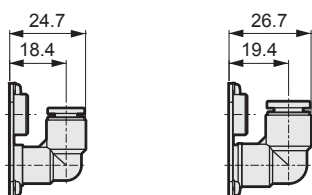
● Fitting L type (downward)

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

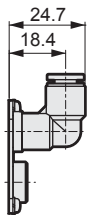


● Fitting L type (upward), single plug

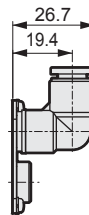
- $\phi 6$ (CL6NC)
- $\phi 8$ (CL8NC)



- $\phi 6$ (CL6NO)

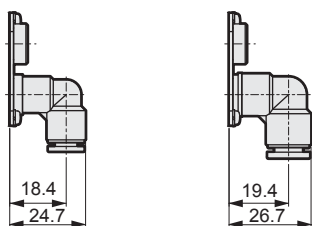


- $\phi 8$ (CL8NO)

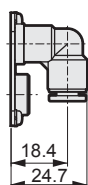


● Fitting L type (downward), single plug

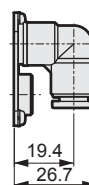
- $\phi 6$ (CD6NC)
- $\phi 8$ (CD8NC)



- $\phi 6$ (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

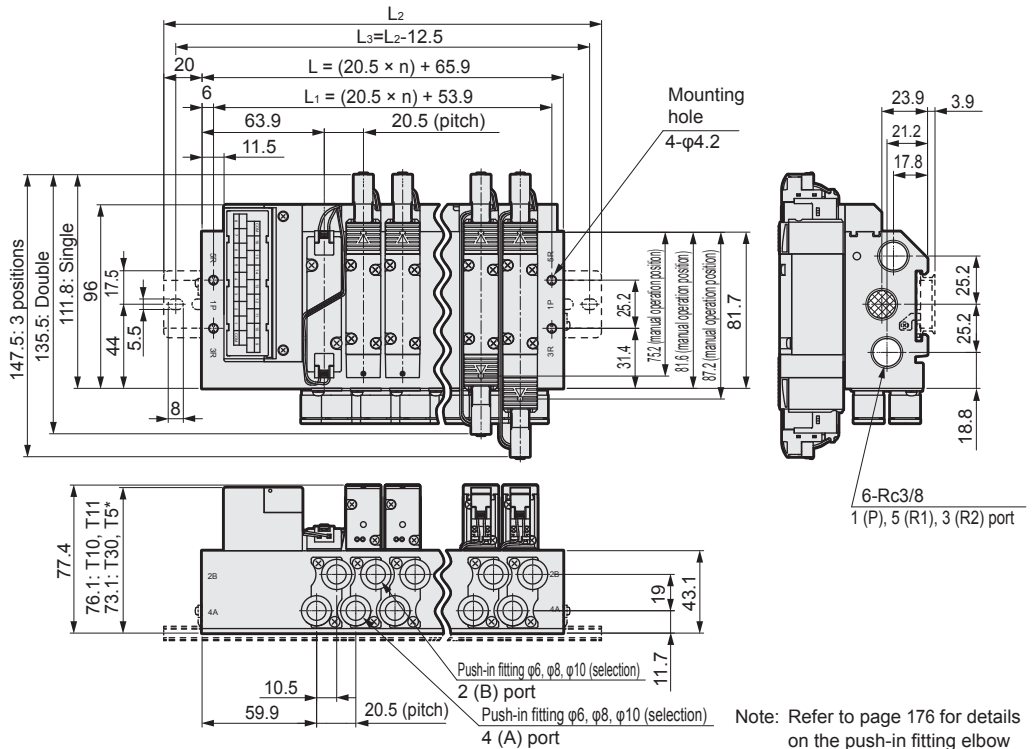
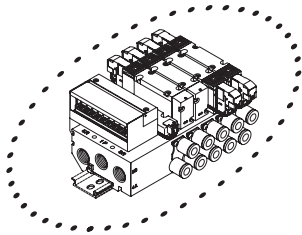
Reduced wiring manifold; base piping

Dimensions 

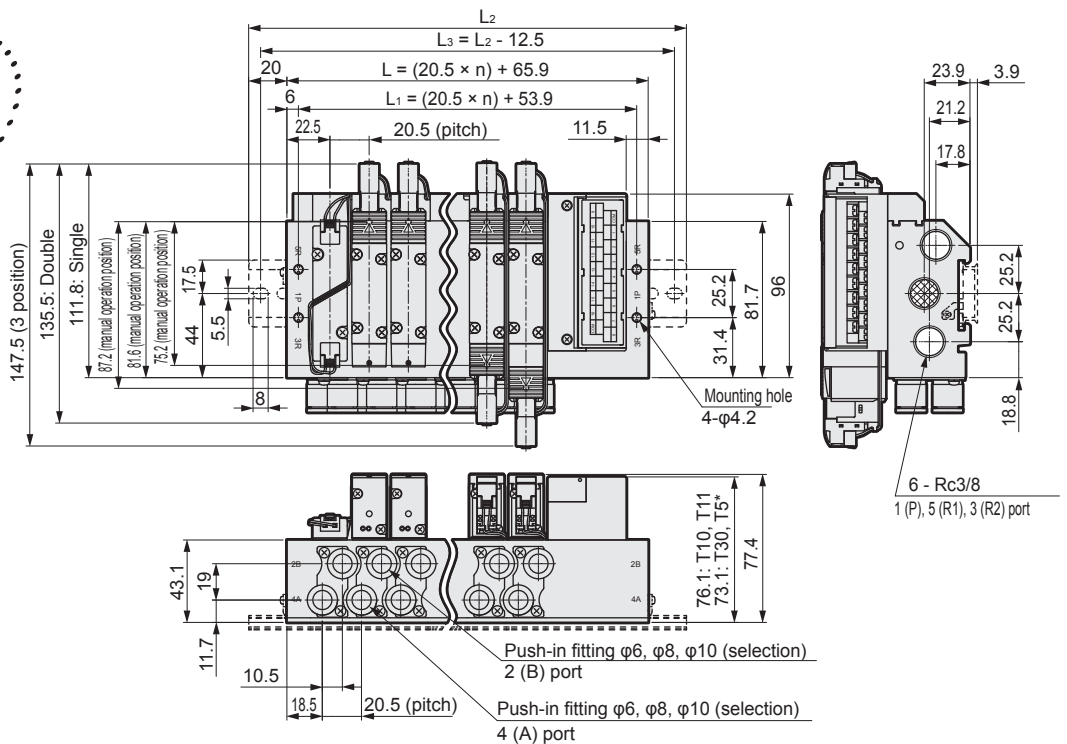
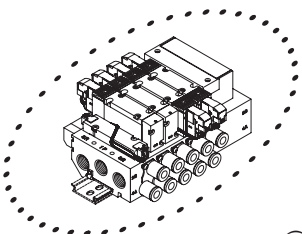
M4GB3

● 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 |

4GAB
M4GAB
MN4GAB
4GAB Master/valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

M4GB3-T6D Series

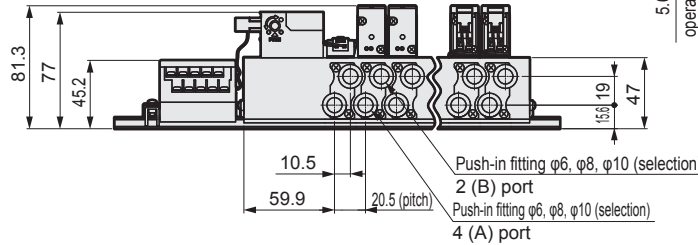
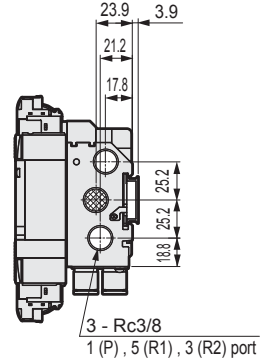
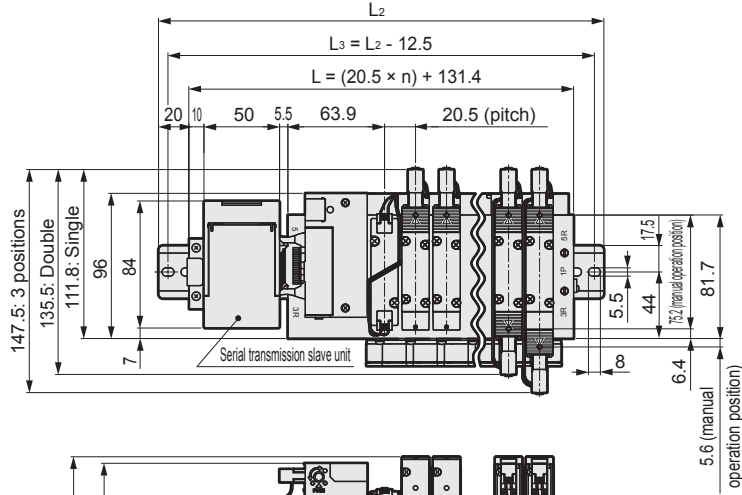
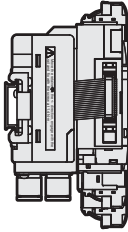
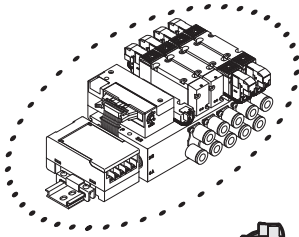
Reduced wiring manifold; base piping; serial transmission

Dimensions



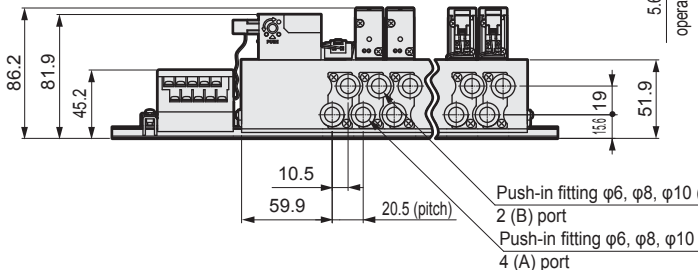
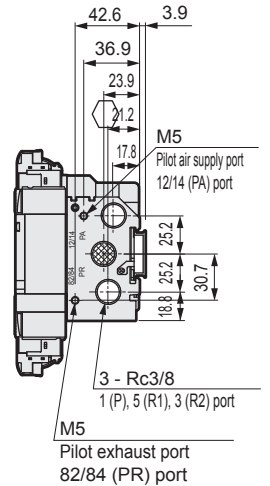
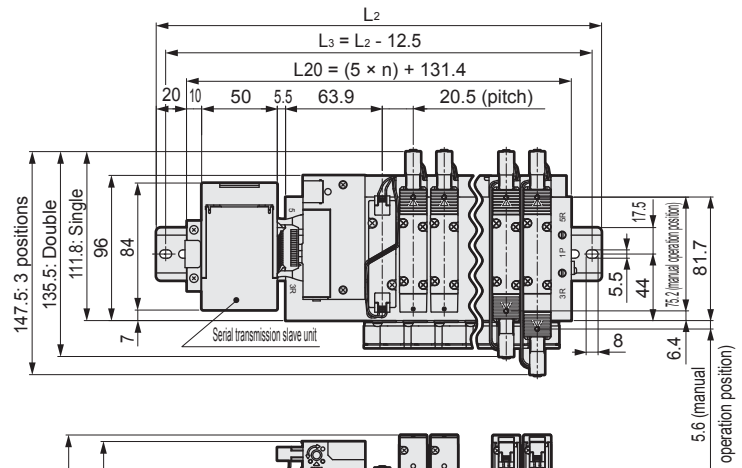
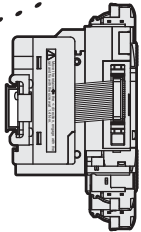
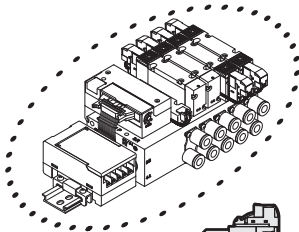
M4GB3

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



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

- 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 | 450.0 | 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 | 437.5 | 450.0 | 475.0 | 487.5 |

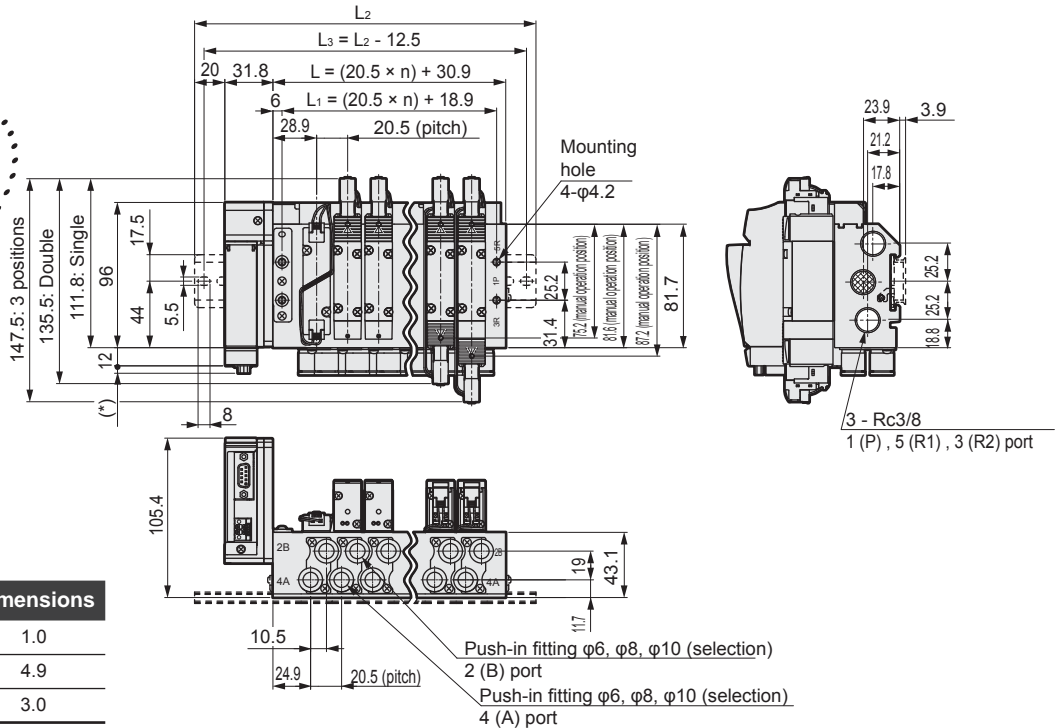
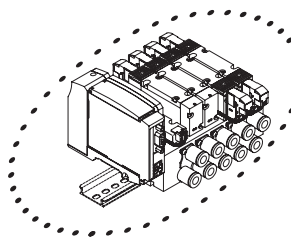
M4GB3-T8* Series

Reduced wiring manifold; base piping; serial transmission

Dimensions

M4GB3

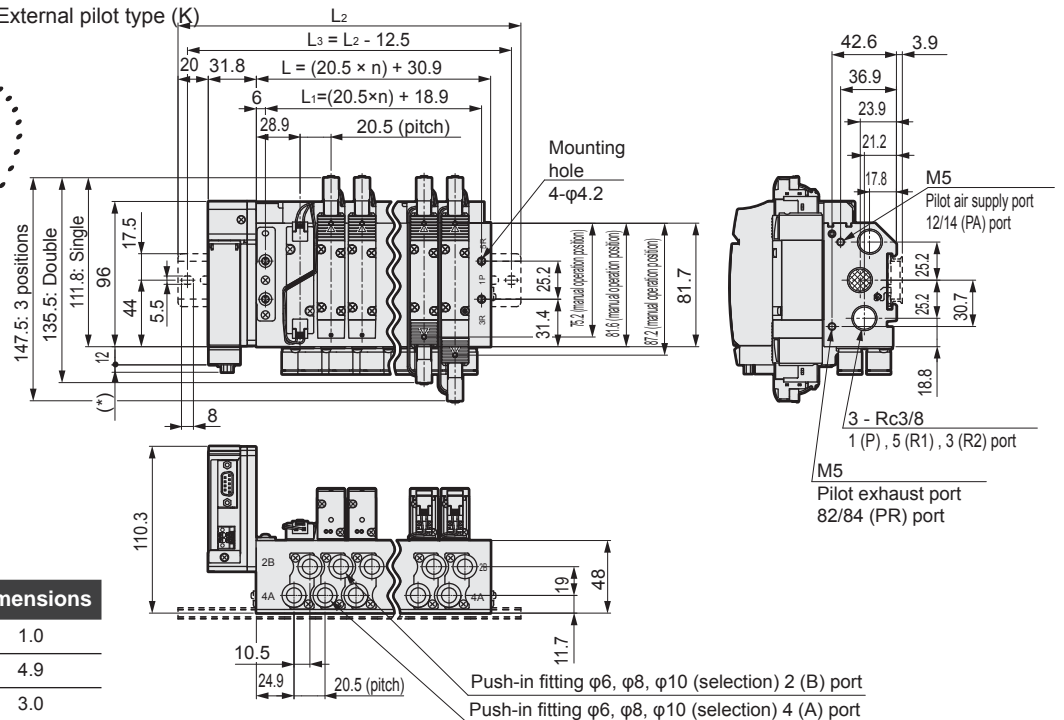
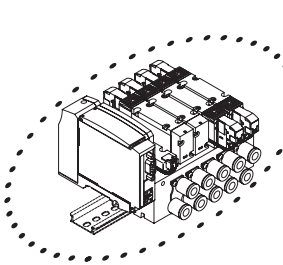
- Serial transmission (T8*)
DIN rail mounting type (D)



| 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 |

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

4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

Manifold
Specifications

M4GB3-T* Series

Reduced wiring manifold; base piping

Dimensions

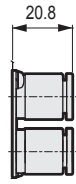
M4GB3

● Fitting straight

● $\phi 6$ (C6)

● $\phi 8$ (C8)

● $\phi 10$ (C10)



● Fitting straight, single plug

● $\phi 6$ (C6NC)

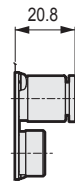
● $\phi 8$ (C8NC)

● $\phi 10$ (C10NC)

● $\phi 6$ (C6NO)

● $\phi 8$ (C8NO)

● $\phi 10$ (C10NO)



● Fitting L type (upward)

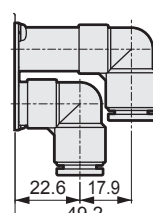
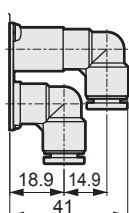
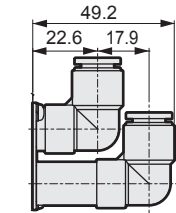
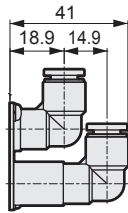
● $\phi 8$ (CL8)

● $\phi 10$ (CL10)

● Fitting L type (downward)

● $\phi 8$ (CD8)

● $\phi 10$ (CD10)



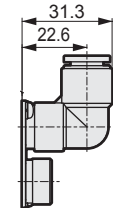
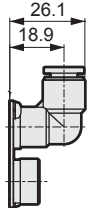
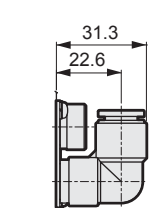
● Fitting L type (upward), single plug

● $\phi 8$ (CL8NC)

● $\phi 10$ (CL10NC)

● $\phi 8$ (CL8NO)

● $\phi 10$ (CL10NO)



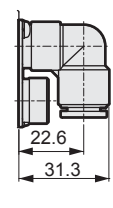
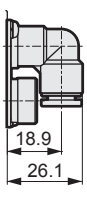
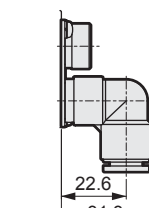
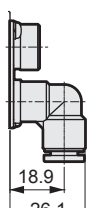
● Fitting L type (downward), single plug

● $\phi 8$ (CD8NC)

● $\phi 10$ (CD10NC)

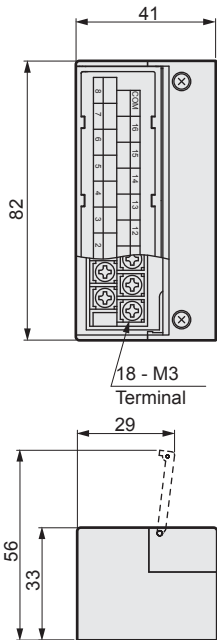
● $\phi 8$ (CD8NO)

● $\phi 10$ (CD10NO)

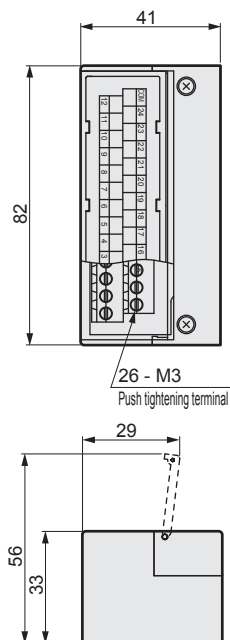


Electrical block part: dimensions

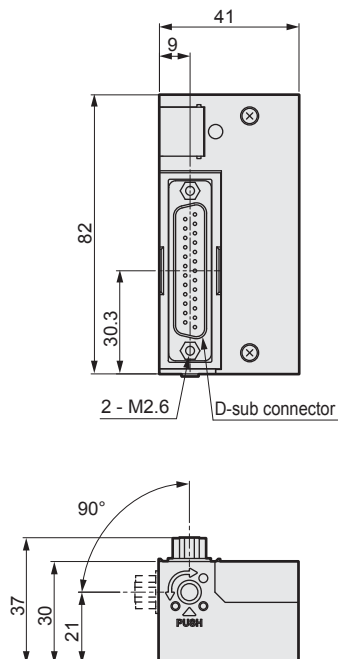
● Common terminal block (M3 thread) T10



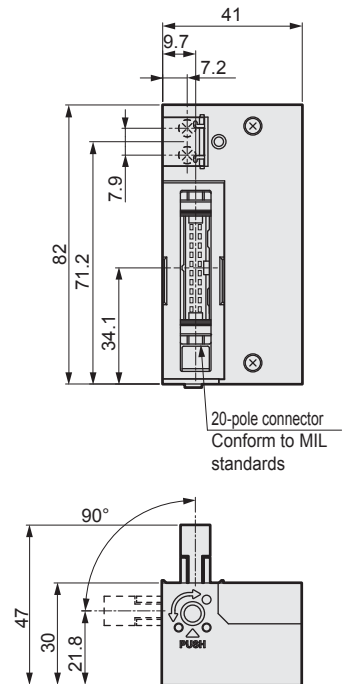
● Common terminal block (push tightening) T11



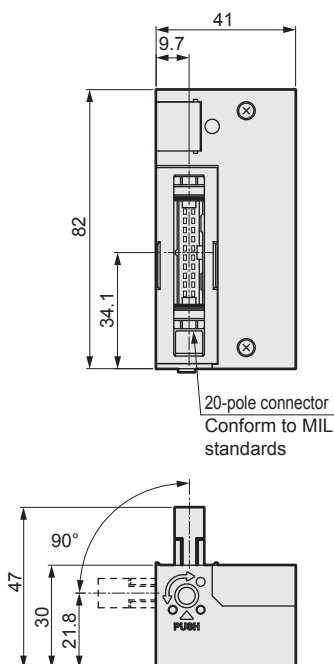
● D-sub connector T30



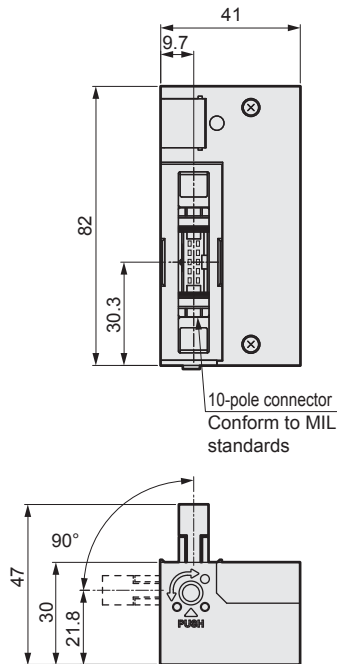
● 20 pin flat cable connector (with power supply terminal) T50



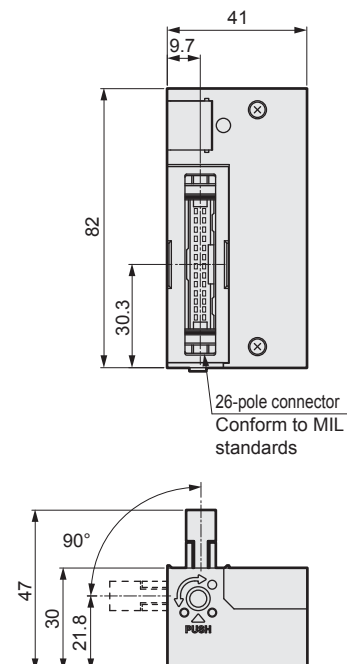
● 20 pin flat cable connector (without power supply terminal) T51



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



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



4GAB

M4GAB

MN4GAB

4GAB
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 | 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) | 16 points |
| 2G | T8G2 | | 32 points |
| 1G-P | T8GP1 | | 16 points |
| 2G-P | T8GP2 | | 32 points |
| 1P | T8P1 | PROFIBUS-DP (Thin type) | 16 points |
| 2P | T8P2 | | 32 points |
| 1P-P | T8PP1 | | 16 points |
| 2P-P | T8PP2 | | 32 points |
| 1EC | T8EC1 | EtherCAT (Thin type) | 16 points |
| 2EC | T8EC2 | | 32 points |
| 1EC-P | T8ECP1 | | 16 points |
| 2EC-P | T8ECP2 | | 32 points |
| 1EN | T8EN1 | EtherNet/IP (Thin type) | 16 points |
| 2EN | T8EN2 | | 32 points |
| 1EN-P | T8ENP1 | | 16 points |
| 2EN-P | T8ENP2 | | 32 points |

| |
|-------------------------|
| 4GAB |
| M4GAB |
| MN4GAB |
| 4GAB Master valve |
| 4GD/E |
| M4GD/E |
| MN4GD/E |
| Technical data |
| Safety precautions |
| Manifold Specifications |

MEMO

4GAB

M4GA/B

MN4GA/B

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

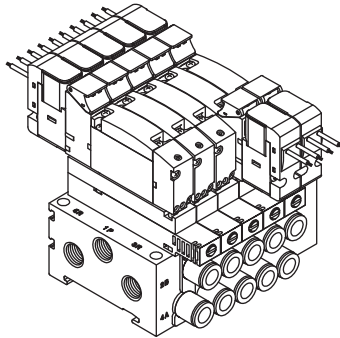
Manifold
Specifications

M4GA1 to 3/M4GB1 to 3 Series

Related products

Related products

● 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 |

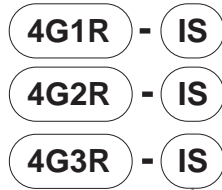
Note 1: These are values when base piping and 2-position valve are mounted.

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 $S \approx 5.0 \times C$.

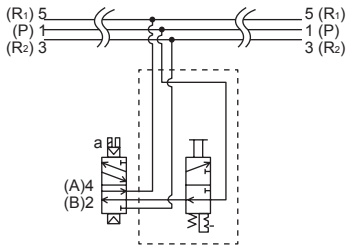
Attached product: PR check valve 2, body gasket 1 (4G*2, 4G*3)

How to order discrete part



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).

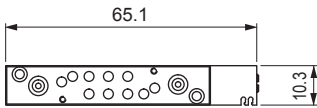
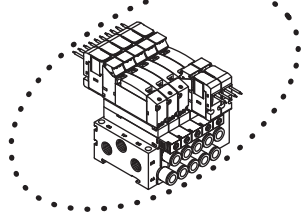
Note 3: If the elbow type (upward) A/B port fitting is used for the reduced wiring manifold, the in stop valve spacer cannot be selected.

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

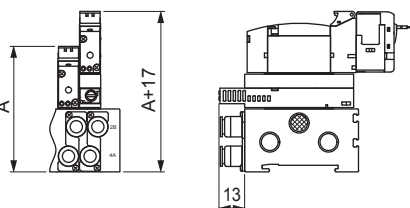
Note 5: When adding to the reduced wiring manifold, the existing electric wire may be too short. Contact CKD for details.

Dimensions

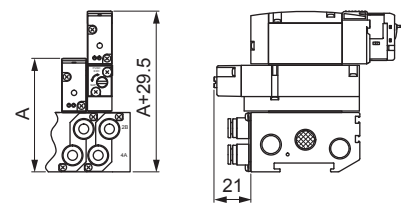
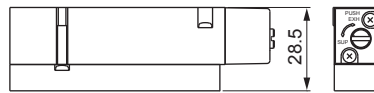
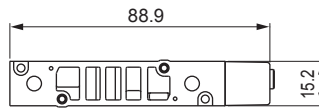
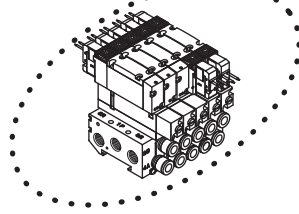
● 4G1



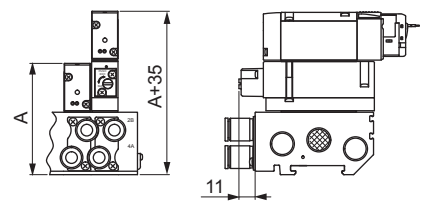
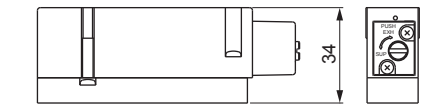
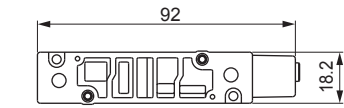
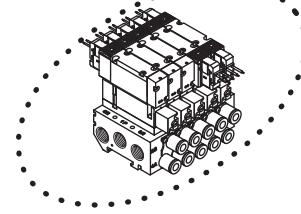
Dimensions when mounted



● 4G2



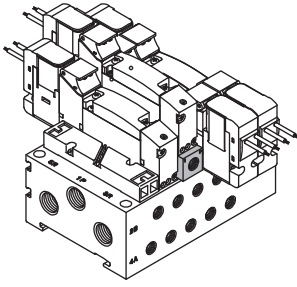
● 4G3



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.

| Symbol | Descriptions | 4GA1 | 4GB1 | 4GA2 | 4GB2 | 4GA3 | 4GB3 |
|--------------------------------------|--|------|------|------|------|------|--------|
| 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.

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

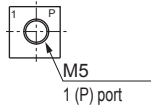
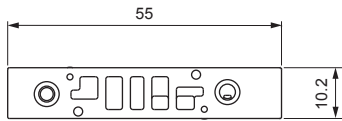
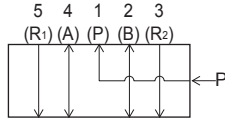
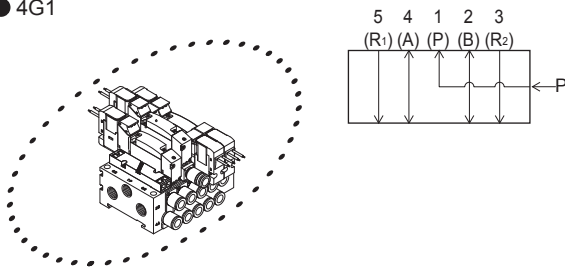
Related products

Related products

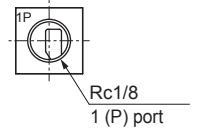
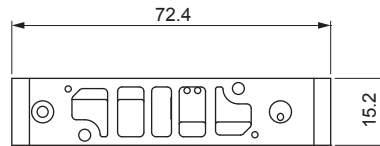
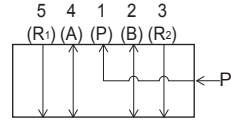
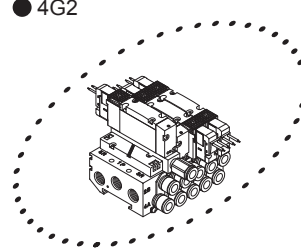
● Air supply spacer

Dimensions

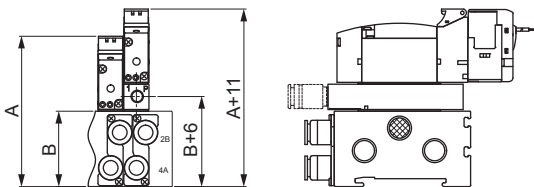
● 4G1



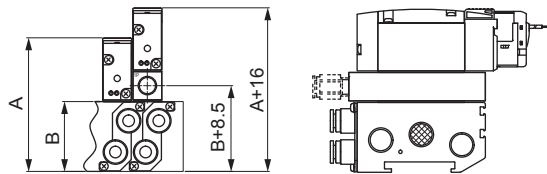
● 4G2



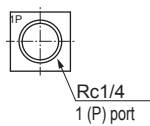
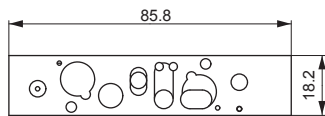
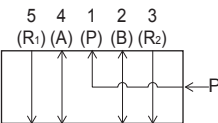
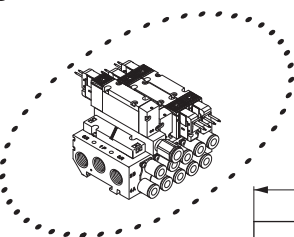
Dimensions when mounted



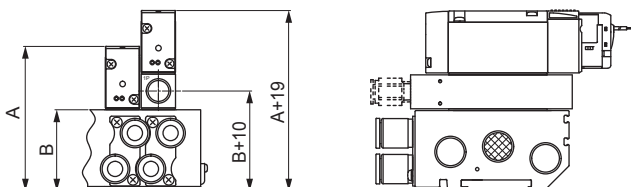
Dimensions when mounted



● 4G3



Dimensions when mounted

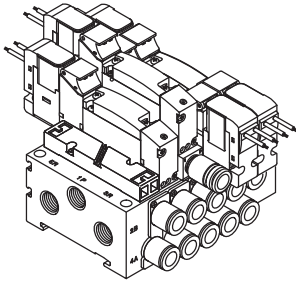


Note: For A, B dimensions, check the dimensions of respective specifications.

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

| Symbol | Descriptions | Valve model no. | | | | | |
|-----------------------------------|--|-----------------|------|------|------|------|--------|
| | | 4GA1 | 4GB1 | 4GA2 | 4GB2 | 4GA3 | 4GB3 |
| 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.

4G/A/B

M4G/A/B

MN4G/A/B

4G/A/B
Master valve

4G/D/E

M4G/D/E

MN4G/D/E

Technical data

Safety
precautions

Manifold
Specifications

M4GA1 to 3/M4GB1 to 3 Series

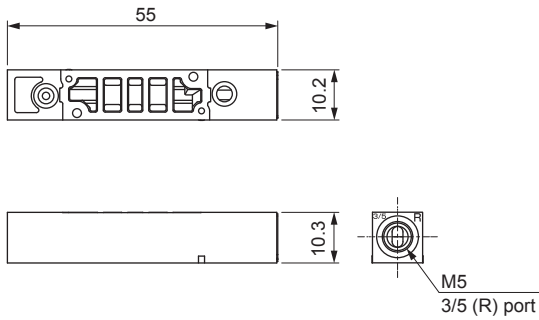
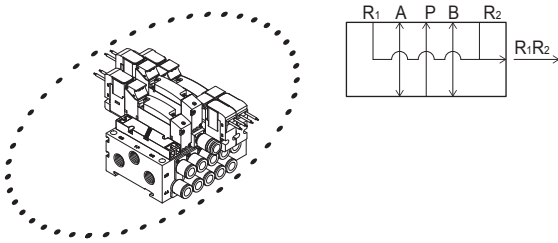
Related products

Related products

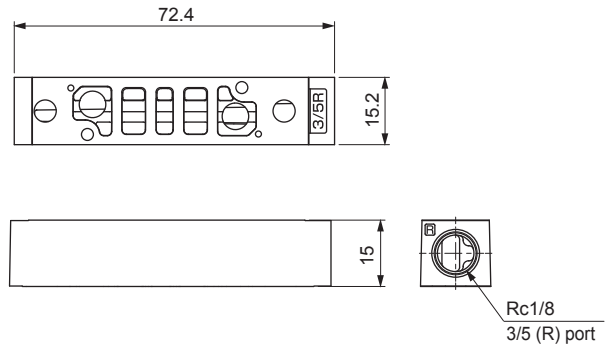
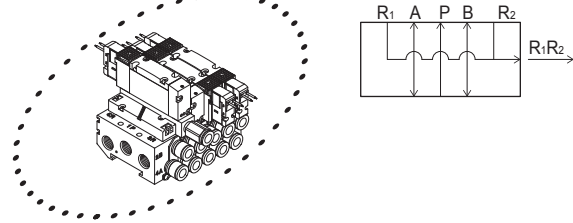
● Exhaust spacer

Dimensions

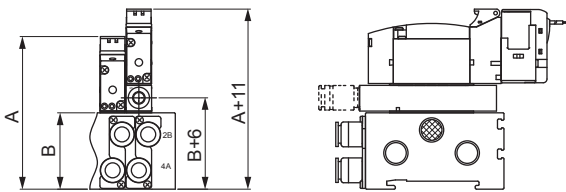
● 4G1



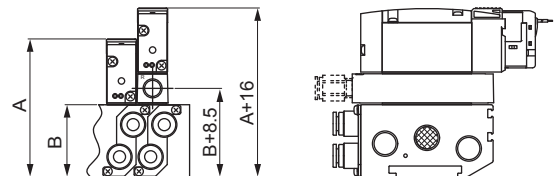
● 4G2



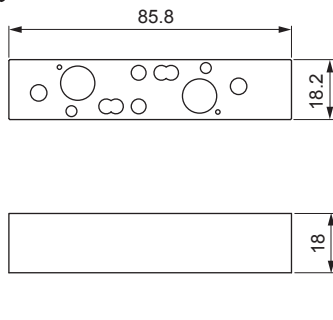
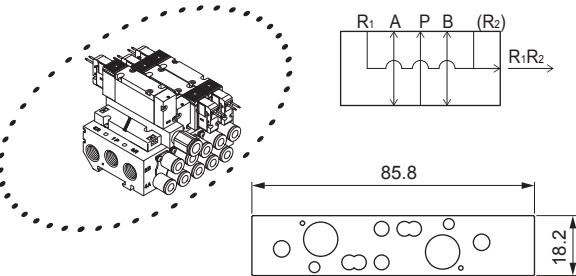
Dimensions when mounted



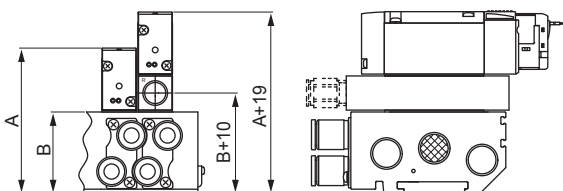
Dimensions when mounted



● 4G3



Dimensions when mounted

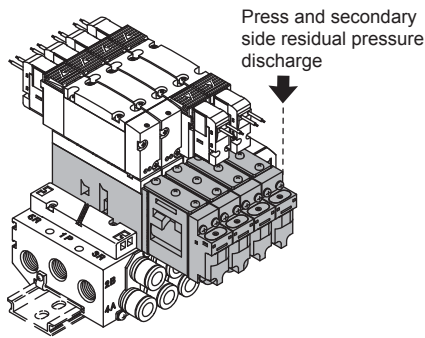


Note: For A, B dimensions, check the dimensions of respective specifications.

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

Related products

● Spacer type pilot check valve

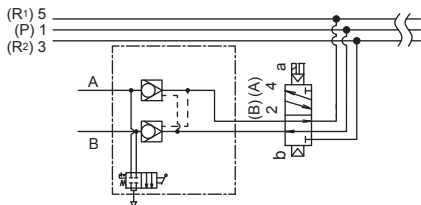


Specifications

| 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 |

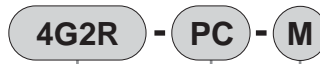
Note 1: Use the turbine oil Class 1 ISO VG32 if lubricated.
Excessive lubrication will lead to unstable operation.

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 φ50) that has almost no diaphragm on the exhaust side (ex: no speed controller, no silencer).

Discrete model no.



Model no.

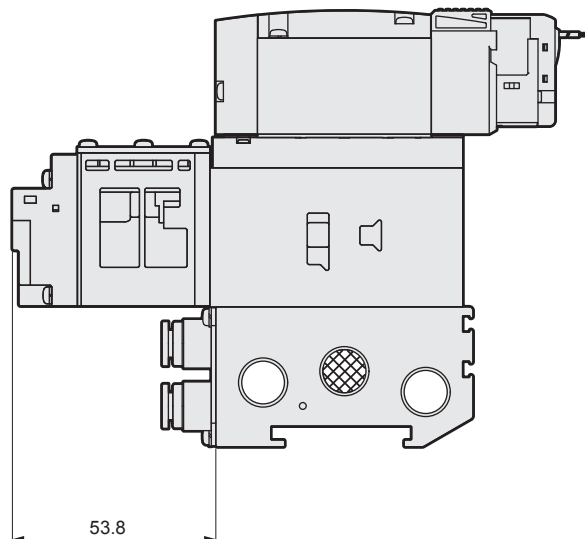
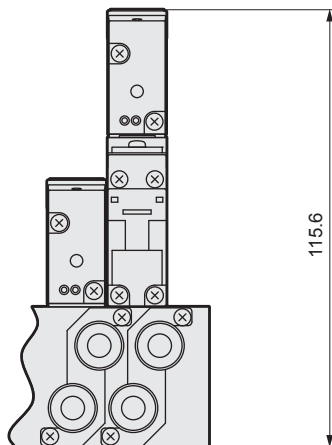
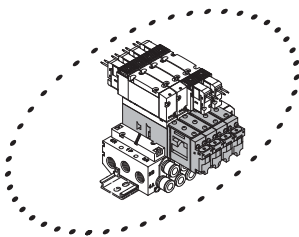
With a residual pressure function
Spacer type pilot check valve

⚠ 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.

Dimensions

● M4GB2



4G/A/B

M4G/A/B

MN4G/A/B

4G/A/B
Master valve

4G/D/E

M4G/D/E

MN4G/D/E

Technical data

Safety
precautions

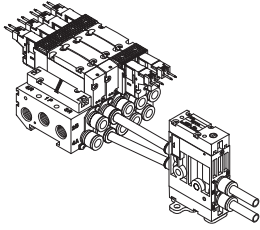
Manifold
Specifications

M4GA1 to 3/M4GB1 to 3 Series

Related products

Related products

● Pilot check valve



How to order

- Discrete model no.

4G2R - PCS - C4 -

- Manifold model no.

M4G2R - PCS - C4 - -

Model no.

Pilot check valve

A Port size
Note 1

B Option
Note 2

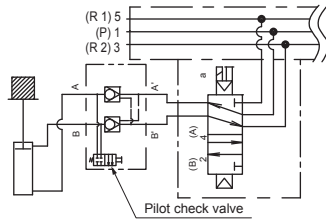
C Station no.

Specifications

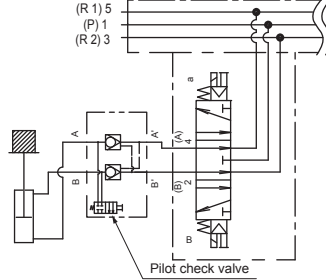
| Descriptions | 4G2R-PCS-**-* |
|--|---------------|
| Effective sectional area mm ² | 11 |
| Weight g | 200 |

| 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

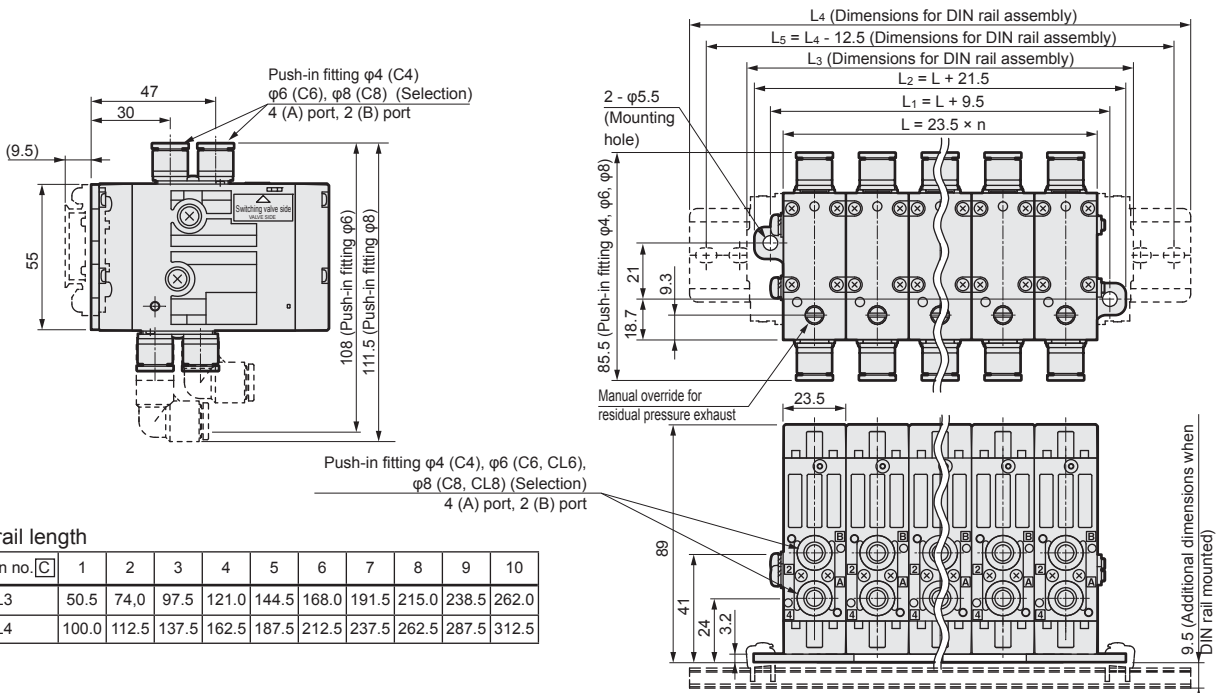
⚠ Depending on use conditions, the pilot check valve body may emit resonance due to the air flow when the cylinder operates, but this is not an abnormality. Adjust the pipe length and bore size in that case.

⚠ 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. C | 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



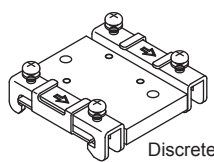
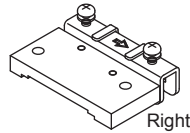
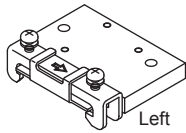
A Type
Note 1

| 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

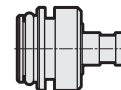
A Type

| A Type | | DIN rail adaptor kit selection list based on changes in specifications | | | | Descriptions |
|------------------|--------------|--|----------------------|--|----------------------------------|---|
| | | Change from mounting plate to DIN rail | | Increase/decrease stations with DIN rail mount | | |
| Detail of change | Symbol | 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 - CL18

φ1.8 barbed type
4G1R - JOINT - CF

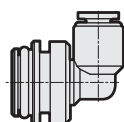


φ1.8L/φ4L/φ6L/φ8L/φ10L type (short elbow type)

4G1R - JOINT - CL18 / CL4 / CL6

4G2R - JOINT - CL6 / CL8

4G3R - JOINT - CL8 / CL10

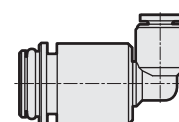


φ1.8L/φ4L/φ6L/φ8L/φ10L type (long elbow type)

4G1R - JOINT - CLL18 / CLL4 / CLL6

4G2R - JOINT - CLL6 / CLL8

4G3R - JOINT - CLL8 / CLL10



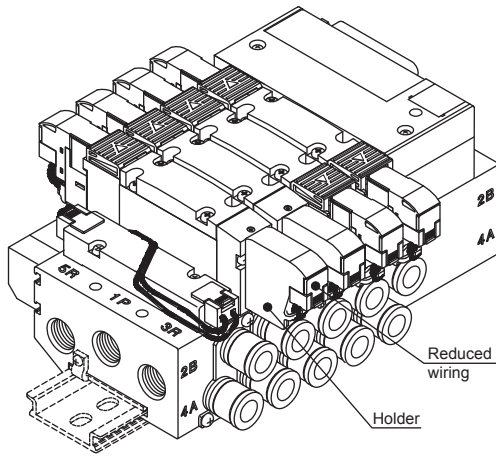
M4GA1 to 3/M4GB1 to 3 Series

Related products

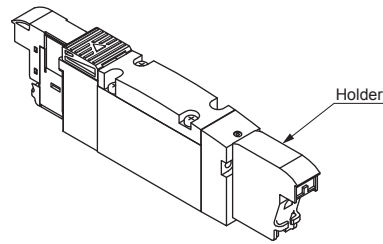
Related products

● 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

E Terminal and connector pin array

F Option

G Station no.

H Voltage

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

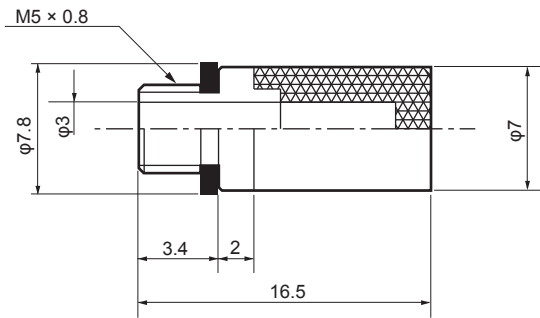
* Refer to How to order of each series for details.

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

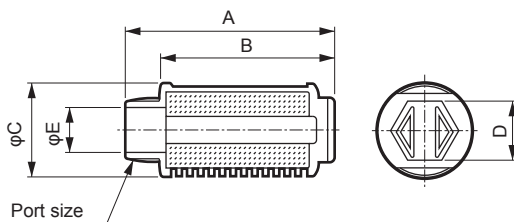
Related products

● Silencer

● SLM-M5



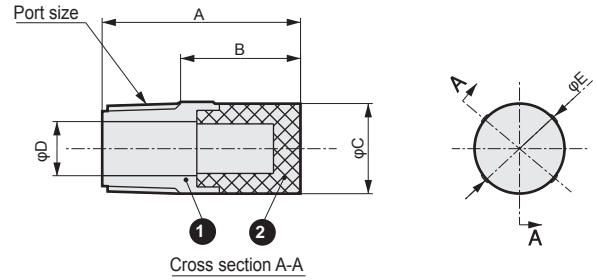
● SLW - 6A, 8A, 10A, 10L



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



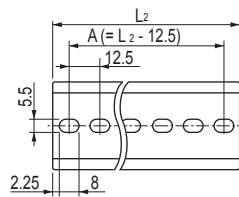
| Model no. | Port size | A | B | C | D | E |
|-----------|-----------|----|------|------|---|------|
| SLW - 6S | R1/8 | 22 | 13.3 | 10.5 | 6 | 10.5 |
| SLW - 8S | R1/4 | 28 | 19 | 14.8 | 9 | 15.4 |

● 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 | | |

● DIN rail

N4GR - BAA



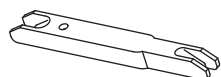
Note 1: Rail lengths not included in the list are available consult factory order product.

| L1: Manifold length | L2: Rail length | A: Mounting pitch |
|---------------------|-----------------|-------------------|
| 35 | 47.5 or less | 87.5 |
| 47.5 or more | 60 or less | 100 |
| 60 | 72.5 | 112.5 |
| 72.5 | 85 | 125 |
| 85 | 97.5 | 137.5 |
| 97.5 | 110 | 150 |
| 110 | 122.5 | 162.5 |
| 122.5 | 135 | 175 |
| 135 | 147.5 | 187.5 |
| 147.5 | 160 | 200 |
| 160 | 172.5 | 212.5 |
| 172.5 | 185 | 225 |
| 185 | 197.5 | 237.5 |
| 197.5 | 210 | 250 |
| 210 | 222.5 | 262.5 |
| 222.5 | 235 | 275 |
| 235 | 247.5 | 287.5 |
| 247.5 | 260 | 300 |
| 260 | 272.5 | 312.5 |
| 272.5 | 285 | 325 |
| 285 | 297.5 | 337.5 |
| 297.5 | 310 | 350 |
| 310 | 322.5 | 362.5 |
| 322.5 | 335 | 375 |
| 335 | 347.5 | 387.5 |
| 347.5 | 360 | 400 |
| 360 | 372.5 | 412.5 |
| 372.5 | 385 | 425 |
| 385 | 397.5 | 437.5 |
| 397.5 | 410 | 450 |
| 410 | 422.5 | 462.5 |
| 422.5 | 435 | 475 |
| 435 | 447.5 | 487.5 |
| 447.5 | 460 | 500 |
| 460 | 472.5 | 512.5 |
| 472.5 | 485 | 525 |
| 485 | 497.5 | 537.5 |
| 497.5 | 510 | 550 |

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

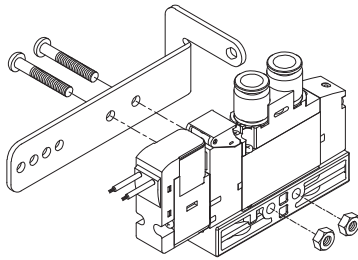
4GAB
M4GA/B
MN4GA/B
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

M4GA1 to 3/M4GB1 to 3 Series

Related parts

Related parts

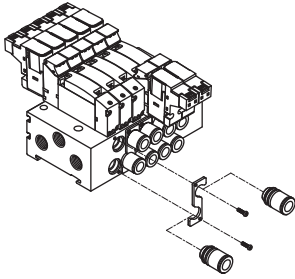
(1) Mounting plate (P) kit



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

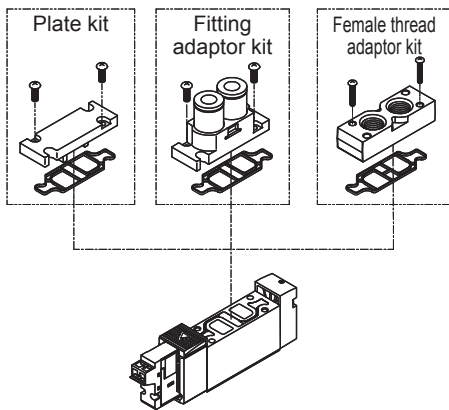


Plate kit

| 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 | ● | | | ● | | |
| C18 | ● | | | ● | | |
| C4 | ● | ● | | | ● | |
| C6 | ● | ● | ● | | ● | ● |
| C8 | | ● | ● | | ● | ● |
| C10 | | | ● | | | ● |
| C3N | ● | | | ● | | |
| C4N | ● | | | ● | | |
| C6N | | ● | | | ● | |
| C8N | | ● | ● | | ● | ● |
| C10N | | | ● | | | ● |
| C N.C./N.O. | | | | | | |
| N.C. | ● | ● | ● | | | |
| N.O. | ● | ● | ● | | | |
| Blank | ● | ● | | ● | ● | ● |
| D Option | | | | | | |
| Blank | ● | ● | ● | ● | ● | ● |
| F | ● | ● | ● | ● | ● | ● |

Female screw adaptor kit

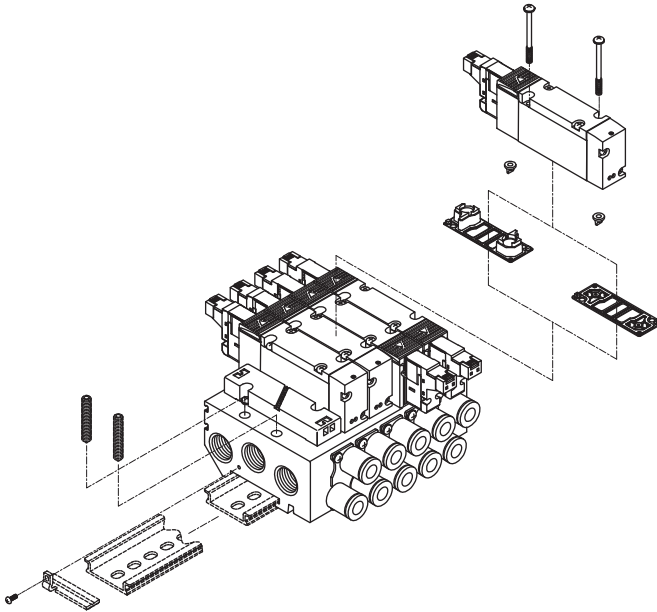
| Model | Kit model no. | Set parts |
|-------------|---|---|
| 3GA1 & 4GA1 | 4G1R-FML-ADAPTOR-KIT - Port size - Option | Female screw adaptor, gasket, set screw 2 |
| 3GA2 & 4GA2 | 4G2R-FML-ADAPTOR-KIT - Port size - Option | Female screw adaptor, gasket, set screw 2 |
| 3GA3 & 4GA3 | 4G3R-FML-ADAPTOR-KIT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

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

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).

4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety
precautions

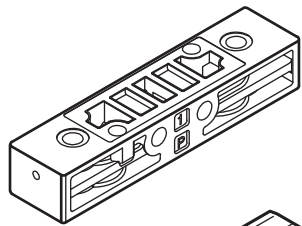
Manifold
Specifications

M4GA1 to 3/M4GB1 to 3 Series

Related parts

Related parts

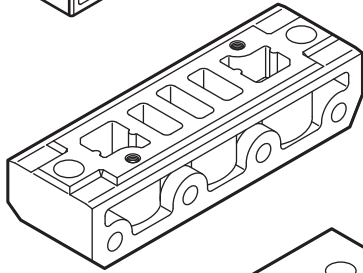
(5) Sub-plate



4GA piping adaptor

4G1 R - ADAPTOR - M5 - []

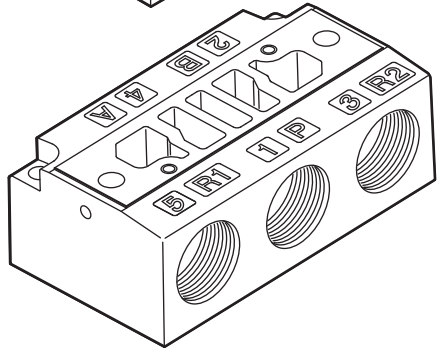
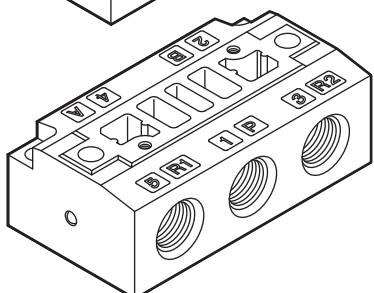
A Model no.



4GB Discrete sub-plate

4G1 R - SUB - BASE - 06 - []

A Model no.



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

| C Option | | C Option | | | | |
|----------|----------------|----------|---|---|---|---|
| P | Mounting plate | ● | ● | ● | ● | ● |

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

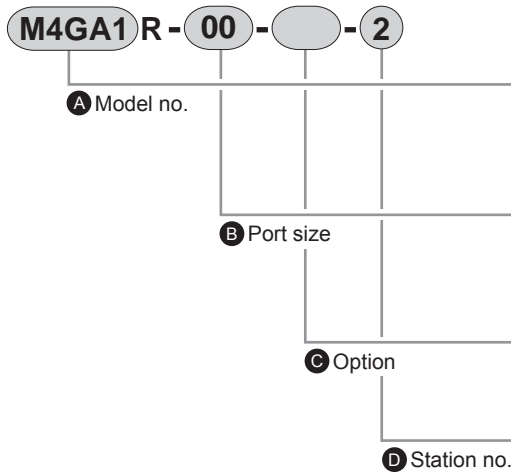
4GAB
M4GAB
MN4GAB
4GAB Master valve
4GD/E
M4GD/E
MN4GD/E
Technical data
Safety precautions
Manifold Specifications

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

Related parts

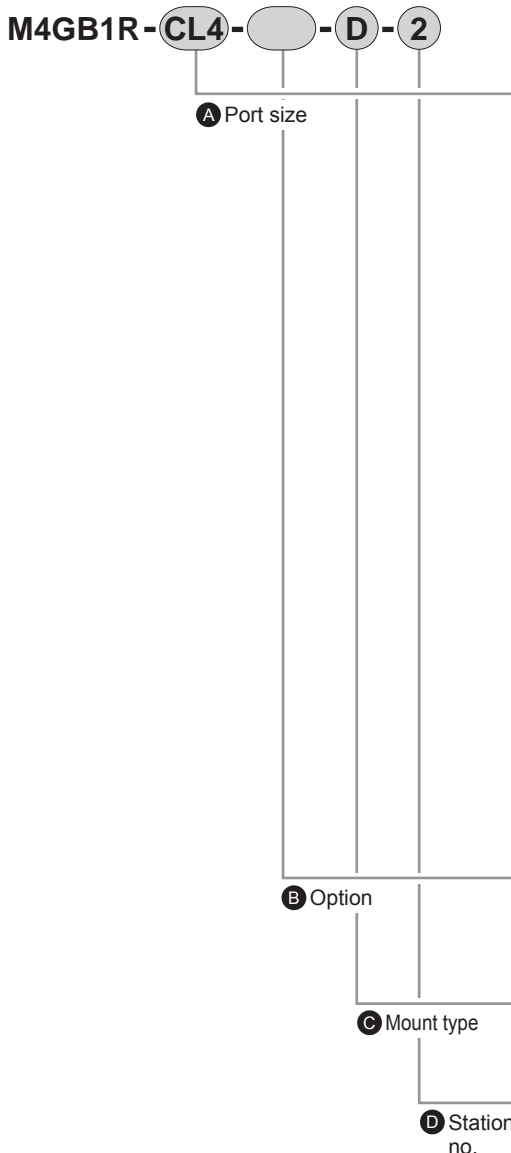
(6) Manifold sub-plate kit individual wiring type

● M4GA Sub-plate



| 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



| 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-**) Note 1 | |
| 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-**) Note 1 | |
| 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.

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 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 | | A Model no. | |
|-------------|---|--------------------------|---|--|-------|
| | | | | M4GB2 | M4GB3 |
| 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 Note 1 | 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.

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 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 | ② | |
| | ② | ③ |
| | | ③ |
| ① | | |
| 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-**) |
| 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 |
| C10 | φ10 push-in fitting |
| 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) |
| CL8 | L type φ8 push-in fitting (upward) |
| CL10 | L type φ10 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) |
| CD8 | L type φ8 push-in fitting (downward) |
| CD10 | L type φ10 push-in fitting (downward) |
| M5 | M5 |
| 06 | Rc1/8 |
| 08 | Rc1/4 |

| 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 |

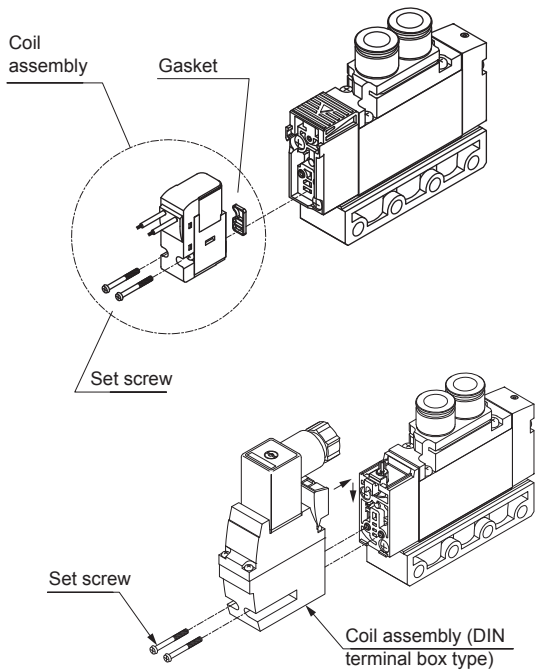
| E Mount type | | Note 1 |
|--------------|---------------------|--------|
| Blank | Direct mount type | |
| D | DIN rail mount type | |

| 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.

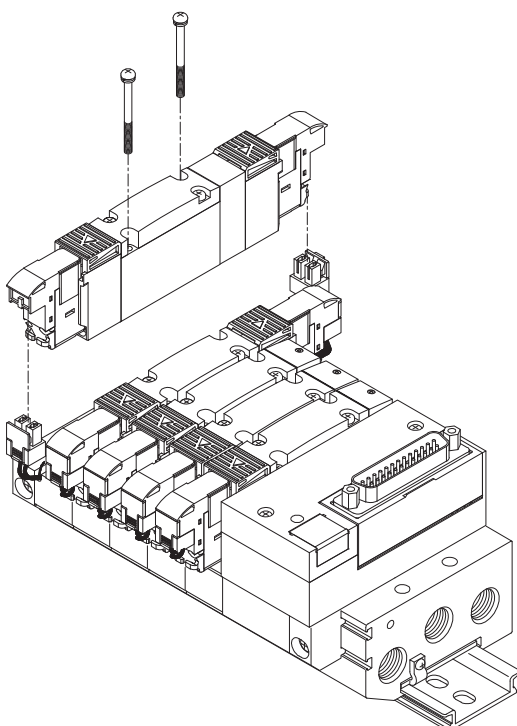
Note 2 This is surgeless specifications.

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.

4GAB

M4GAB

MN4GAB

4GAB
Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety precautions

Manifold Specifications

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 - 3

Type of solenoid valve Valve Position Port size Electrical connections Terminal connector pin array Station 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.

| 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 ₁ 1:1:9R-CX | C6 | X | ○ | ○ | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 4G ^B ₁ 1:1:9R-C6 | | | | | ○ | ○ | | | | | | | | | | | | | | | | | | | | | 2 |
| 4G ^B ₁ 2:9R-C6 | | | | | | | ○ | ○ | | | | | | | | | | | | | | | | | | | 2 |
| 4G ^B ₁ 5:9R-CX | C6 | C4 | | | | | | | ○ | ○ | | | | | | | | | | | | | | | | | 2 |
| 4G ^B ₁ 1:9R- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3G ^A ₁ 1:9R- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Masking plate 4G1R-MP (S) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Masking plate 4G1R-MP (D) | | | | | | | | | | | | | ○ | | | | | | | | | | | | | | 1 |
| Mounting rail L ₂ = <input type="text"/> *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 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Cable with D-sub connector | | 4GR-CABLE-D0*-* | | Push-in fitting tube remover (standard) <input type="checkbox"/> Not required (check) | | | | | | | | | | | | | | | | | | | | | |

Indicate "X" for a plug

Indicate "CX" when changing the fitting combination

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

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

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.

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)

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.

4GAB
M4GAB
MN4GAB
4GAB Master valve
4GDIE
M4GDIE
MN4GDIE
Technical data
Safety precautions
Manifold Specifications

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 | | | | | | a | | | | | | | | | | | |
| 17 | 8 | | | | | | | b | | | | | | | | | | |
| 5 | 9 - Power supply | | | | | | a | | | | | | | | | | | |
| 18 | 10 + (COM) Power supply | | | | | | | b | | | | | | | | | | |
| 6 | 11 | | | | | | | | a | | | | | | | | | |
| 19 | 12 | | | | | | | | | b | | | | | | | | |
| 7 | 13 | | | | | | | | | | a | | | | | | | |
| 20 | 14 | | | | | | | | | | | b | | | | | | |
| 8 | 15 | | | | | | | | | | | | (a) | | | | | |
| 21 | 16 | | | | | | | | | | | | | (b) | | | | |
| 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

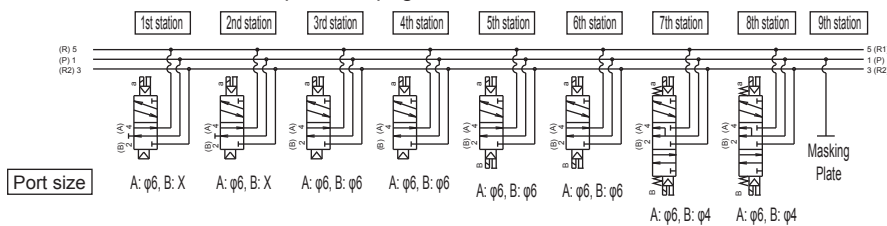
(1) Reserved wire(s) is/are provided on the masking plate for the reduced wiring manifold. (refer to page 188)
 The number of reserved wires can be specified by selecting the masking plate in specifications.

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.

4GAB

M4GA/B

MN4GA/B

4GAB Master valve

4GD/E

M4GD/E

MN4GD/E

Technical data

Safety precautions

Manifold Specifications

M4G1 Reduced wiring

M4G^A_B 1-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_B1** **OR-** - - - - -
 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- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 _z = *Fill in the integral multiple of 12.5. | Attached Part | Blanking plug | | | | Thread plug | | | | Silencer | | | | | | | | | | | | | | | | | |
| | | PG-P2-B | | | | 4G1R-M5P | | | | SLW-6S | | | | SLW-6A | | | | | | | | | | | | | |
| | | GWP6-B | | | | GWP4-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 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|----------|----------|----------|-----------------------|-----|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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.

M4G2 Reduced wiring

M4G^A_B 2-T5 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-** - - -

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 = <input type="text"/> | 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 | COM | 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | + (COM) Power supply | 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.

M4G2 Serial transmission type

M4G^A_B2-T6D 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_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- | | | | | | | | | | | | | | | | | | | |
| 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 = <input type="text"/> <small>*Fill in the integral multiple of 12.5.</small> | 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 |
| | 1 | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | |
| T6A0: UNIWIRE SYSTEM 8 points | 4 | | | | | | | | | | | | | | | | |
| T6A1: UNIWIRE SYSTEM 16 points | 5 | | | | | | | | | | | | | | | | |
| T6C0: CompoBus/S 8 points | 6 | | | | | | | | | | | | | | | | |
| T6C1: CompoBus/S 16 points | 7 | | | | | | | | | | | | | | | | |
| T6G1: CC-Link 16 points | 8 | | | | | | | | | | | | | | | | |
| T6E0: S-LINK 8 points | 9 | | | | | | | | | | | | | | | | |
| T6E1: S-LINK 16 points | 10 COM | | | | | | | | | | | | | | | | |
| | 11 | | | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | |
| | 13 | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | |
| T6J0: UNIWIRE H SYSTEM 8 points | 15 | | | | | | | | | | | | | | | | |
| T6J1: UNIWIRE H SYSTEM 16 points | 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** **OR-** - **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 | L2 = <input type="text"/> | Attached Part | Blanking plug | | | | | | Thread plug | | | | Silencer | | | | | | | | |
| | | | GWP6-B | GWP8-B | GWP10-B | 4G3R-08P | SLW-10A | SLW-10L | | | | | | | | | | | | | |

● 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: UNIWIRES SYSTEM 8 points T6A1: UNIWIRES 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: UNIWIRES H SYSTEM 8 points T6J1: UNIWIRES 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 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** **OR-** - - - - - - - **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 | | | | | | | | | | | |

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 | PROFIBUS-DP | NPN | 16 points | 3 | | | | | | | | | | | | | | | |
| T8GP2 | | | 32 points | 4 | | | | | | | | | | | | | | | |
| T8P1 | PROFIBUS-DP | NPN | 16 points | 5 | | | | | | | | | | | | | | | |
| T8P2 | | | 32 points | 6 | | | | | | | | | | | | | | | |
| T8PP1 | PROFIBUS-DP | PNP | 16 points | 7 | | | | | | | | | | | | | | | |
| T8PP2 | | | 32 points | 8 | | | | | | | | | | | | | | | |
| T8EC1 | EtherCAT | NPN | 16 points | 9 | | | | | | | | | | | | | | | |
| T8EC2 | | | 32 points | 10 | | | | | | | | | | | | | | | |
| T8ECP1 | EtherCAT | PNP | 16 points | 11 | | | | | | | | | | | | | | | |
| T8ECP2 | | | 32 points | 12 | | | | | | | | | | | | | | | |
| T8EN1 | EtherNet/IP | NPN | 16 points | 13 | | | | | | | | | | | | | | | |
| T8EN2 | | | 32 points | 14 | | | | | | | | | | | | | | | |
| T8ENP1 | EtherNet/IP | PNP | 16 points | 15 | | | | | | | | | | | | | | | |
| T8ENP2 | | | 32 points | 16 | | | | | | | | | | | | | | | |
| | | | | 17 | | | | | | | | | | | | | | | |
| | | | | 18 | | | | | | | | | | | | | | | |
| | | | | 19 | | | | | | | | | | | | | | | |
| | | | | 20 | | | | | | | | | | | | | | | |
| | | | | 21 | | | | | | | | | | | | | | | |
| | | | | 22 | | | | | | | | | | | | | | | |
| | | | | 23 | | | | | | | | | | | | | | | |
| | | | | 24 | | | | | | | | | | | | | | | |
| | | | | 25 | | | | | | | | | | | | | | | |
| | | | | 26 | | | | | | | | | | | | | | | |
| | | | | 27 | | | | | | | | | | | | | | | |
| | | | | 28 | | | | | | | | | | | | | | | |
| | | | | 29 | | | | | | | | | | | | | | | |
| | | | | 30 | | | | | | | | | | | | | | | |
| | | | | 31 | | | | | | | | | | | | | | | |
| | | | | 32 | | | | | | | | | | | | | | | |

4GAB
 M4GAB
 MN4GAB
 4GAB Master valve
 4GD/E
 M4GD/E
 MN4GD/E
 Technical data
 Safety precautions
 Manifold Specifications