N*P51* Series

Technical data 1 How to disassemble/assemble block manifold

A CAUTION: Be sure to turn power OFF and release pressure before increasing or decreasing the manifolds.

N51 Series

4GA/B

M4GA/B

MN4GA/B 4GA/B

(master)

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B

(master)

4F

4F (master) PV5G

P\/5 **GMF**

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP

4G*0EJ

4F*0EX

4F*0E

HMV

HŠV

2QV 3QV

SKH

Silencer TotAirSys (Total Air)

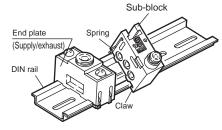
4GB

Assembling the block manifold

- (1) Fix the DIN rail. (Place the unit in as flat a location as possible)
- (2) Install and fix one of the end plates (air supply or exhaust) onto the rail.
- (3) For as many stations as necessary, install the sub-blocks and midway air supply (or exhaust) blocks in order onto the rail and slide to integrate.
- (4) Install and fix the other end plate.
- (5) Install the solenoid valve on the subblock. (The solenoid valve is installed on the sub-block at shipment.)
- (6) Perform wiring and piping to complete the work.

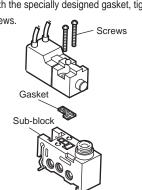
Mounting each sub-block

First hook the fixation claws onto the DIN rail and press the side with the movable claws (springs). Once installation onto the rail has been completed, slide towards the end plate side and press down so that there are no gaps.



Mounting the solenoid valve

Together with the specially designed gasket, tighten with the screws.



Removing the end plate

- (1) Loosen the screws by 2 or 3 rotations and slide by 3 mm or more.
- (2) Open the claws and remove.

Removing sub-blocks and intermediate blocks

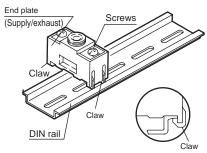
- (1) Loosen the screws of the end plate by 2 or 3 rotations and slide by 3 mm or
- (2) Remove from the side with the movable claws (springs).
- * Not removable without sliding the end plate.

Tubes to use with piping

As the push-in fitting used for the block manifold will retain the O.D. of the tube for piping, use a CKD soft nylon tube, urethane tube, new urethane tube, flame-resistant tube, or a tube having the same O.D. dimensions and thickness with tubing material of hardness 93° or above. If a tube that does not satisfy the above specifications is used, the tube may dislocate or may be difficult to insert.

Installing the end plate

As illustrated in the diagram, hook the claws onto both sides and temporarily fasten the screws. (Fully tighten the screws after installation of the sub-blocks)



C-/D-connector wiring method

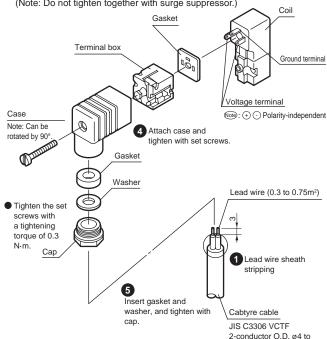
For the details of crimp terminals Wire with steps 1 to 6 and crimping tools, contact CKD. Socket assembly F4-605240 (Socket + crimp terminal) Crimp terminal (manuf. by CKD) Crimping tool (manufactured by CKD) 2 Terminal crimping A Insert socket inal into both ends AWG22 to 25 0.16 to 0.38 mm² 6 Screw tightenin D-connector 180° (Note) Lamp/surge suppresso can be integrated Insert socket Gasket C-connector Nois: + O Polarity-independent Insert gasket and connector Tighten the set screws with a

tightening torque of 0.3 N·m.

Compact terminal box with lamp wiring method

Wire with steps 1 to 5.

3 Insert gasket and terminal block into voltage terminal and ground To connect the lead wire with a set screw, a small flathead screwdriver is needed (Note: Do not tighten together with surge suppressor.)

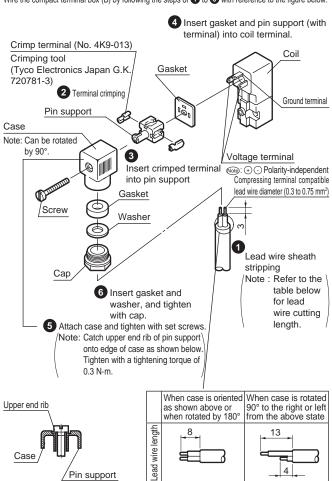


TotAirSys

Coil assembly

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Compact terminal box (B) wiring method Wire the compact terminal box (B) by following the steps of 1 to 6 with reference to the figure below.



Pin support

4

4GA/B M4GA/B

MN4GA/B

4GA/B

(master 4GB With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E MN4E W4GA/B2

W4GB4

MN3S0 MN4S0

4SA/B0

4KA/B

4KA/B (master

4F 4F

(master) PV5G **GMF**

PV5 GMF

PV5S-0

3Q

MV3QR

3MA/B0 3PA/B

P/M/B

NP/NAP NVP

4G*0EJ

4F*0EX

4F*0E

HMV HSV

2QV 3QV

SKH

Silencer TotAirSys (Total Air)

TotAirSys (Gamma)

Ending