



VQ7-6/VQ7-8 Series Specific Product Precautions 1

Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: <https://www.smcworld.com>

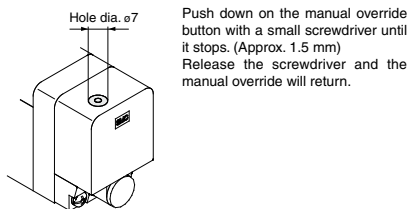
⚠ Warning

Manual Override Operation

Since connected equipment will be actuated when the manual override is operated, first confirm that conditions are safe.

Push type is standard. (Tool required)

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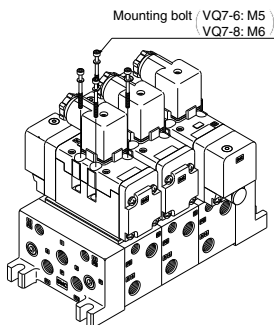


⚠ Caution

Mounting of Valves

After confirming the gasket is correctly placed under the valve, securely tighten the bolts with the proper torque shown in the table below.

Series	Proper tightening torque (N·m)
VQ7-6	2.3 to 3.7
VQ7-8	4.0 to 6.0



⚠ Caution

Installation and Removal of Pilot Valve Cover

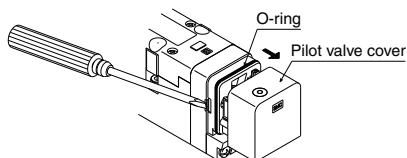
Installation and Removal of Pilot Valve cover

● Removal

To remove the pilot valve cover, spread the cover's hook outward about 1 mm with a flat head screw driver, and pull the cover straight off. If it is pulled off at an angle, the pilot valve may be damaged or the protective O-ring may be scratched.

● Installation

Put the cover back on straight without touching the pilot valve, and push it all the way until the cover's hook locks, without twisting the protective O-ring. (When pushed in, the hook opens and locks automatically.)



⚠ Caution

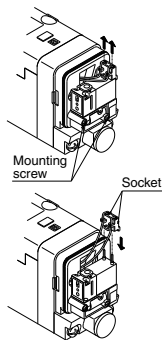
Replacement of Pilot Valves

● Removal

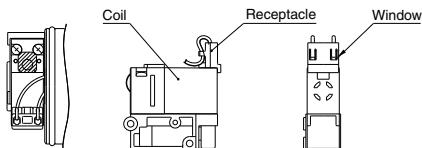
1. Remove the sockets which are installed on the pilot valve pins by pulling them straight upward.
2. Remove the pilot valve mounting screws with a small screwdriver.

● Installation

1. After confirming installation of the gasket, securely tighten the mounting screws with the proper torque shown in the table below.
 2. Put the sockets on straight and install them securely so that the receptacle housings touch the coil surface as shown in the drawing below.
- If they are pushed in with excessive force, there is a danger of the sockets coming off of the receptacle housings. Confirm that the sockets do not protrude from the windows on the side of the receptacle housings.



Mounting screw	Proper tightening torque (N·m)
M1.7 x 12	0.12 to 0.13



SV

SYJ

SZ

VF

VP4

VQ

1/2

VQ

4/5

VQC

1/2

VQC

4/5

VQZ

SQ

VFS

VFR

VQ7



VQ7-6/VQ7-8 Series

Specific Product Precautions 2

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Warning

How to Wire DIN Terminal

ISO#: DIN 43650 A compatible

Connection

1. Loosen the top screw and remove the connector housing from the terminal spades on the solenoid.
2. Remove the housing screw and insert a screwdriver into the slot area on the underside of the DIN cap and carefully separate block and housing.
3. Loosen the terminal screws (slotted screws) on the terminal block, insert the core of the lead wire into the terminal in accordance with the prescribed connection method, and attach securely with the terminal screws.
4. Tighten the ground nut to secure the wire.

Change of electrical entry (Orientation)

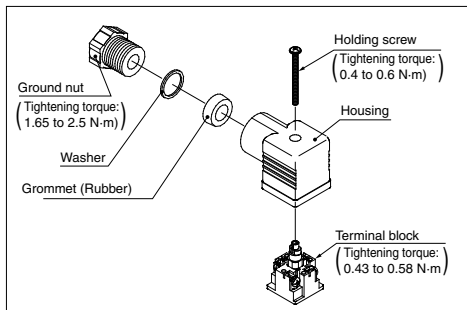
After separating terminal block and housing, the cord entry direction can be changed by attaching the housing in the desired direction (4 directions in 90° increments).

Precautions

Pull a connector out vertically, never at an angle.

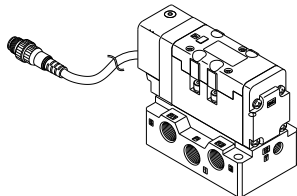
Applicable cable

O.D.: $\phi 6$ to $\phi 12$ (When you use the cord longer than $\phi 9$, cut the inside of grommet along the cutout and then insert the code.)



Using a Pre-wired Connector

4 core wire round type connector (M12) conforming to NECA (Nippon Electric Control Equipment Industries Association) standard 4202

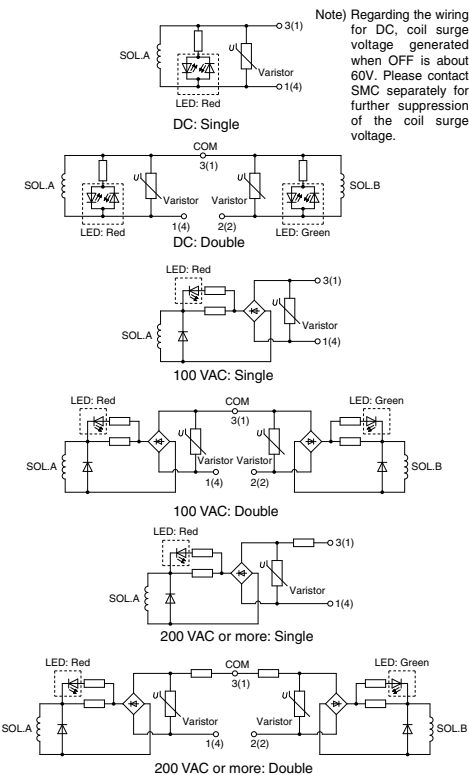


How to Calculate the Flow Rate

Refer to front matters 42 to 45 for How to Calculate the Flow Rate.

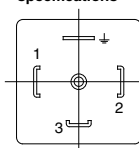
Caution

Internal Wiring Specifications



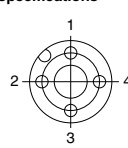
* Terminal numbers in the circuits are for a DIN connector. Numbers inside () are pre-wired connector pin numbers.

DIN terminal wiring specifications



Terminal no.
1: A side SOL.
2: B side SOL.
3: COM terminal

Pre-wired connector wiring specifications



Pin no.
1: COM. pin
2: B side SOL.
3: Not in use
4: A side SOL.

Note) There is no polarity. It can also be used as -COM.