

Service Bulletin

TOKYO KEIKI U.S.A., INC.

Registration number SB19-002 ENG

DG4V-3 100 Design Series Handling Precautions

Overview

Regarding our newly designed directional valve DG4V-3 100 series please note the following points.

Subjected Products

- Directional Valves DG4V-3-**-**-*-100

List of articles

1. The printed instruction included at shipment
2. The packing set (P type [plug-in type] only)
3. The installation torque of the plug connection (P type [plug-in type] only)
4. The arrangement of the terminal block (P type [plug-in type] only)

Warning

1. The printed instruction included at shipment

A simplified instruction is included in the carton of the product.

Please be careful how to handle the manual.

The following items are clarified in the instruction:

- Safety Precautions and EMC Directive Matters
- Precautions that must be followed during usage of the product
- EMC directive matters to comply with CE marking rule.

This enclosed instruction must be delivered to the end users. It is essential for them to follow it in order to use the product safely and comply with EU directives.

2. The packing set (P type [plug-in type] only)

Some of our P type (plug-in connection type, conduit installed) products include the packing and instruction (the packing set). When the cable gland is installed into the conduit box, the packing is required if the cable gland's fitting surface diameter exceeds $\Phi 26\text{mm}$. (See Figure 1.)

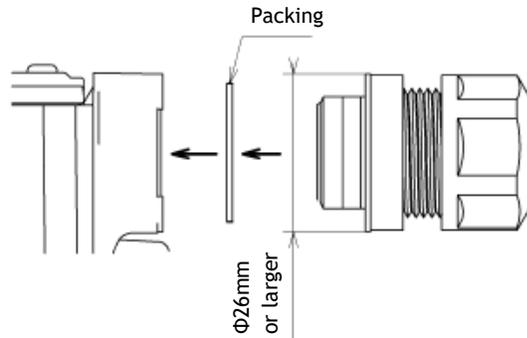


Figure 1. Example of how to use the packing

Above is described in the enclosed instruction.

A black dot is marked at the bottom right of the certification labeled on the product package that contains the packing set.



Models which do not require the packing set are not provided with these.

3. The installation torque of the plug connection (P type [plug-in type] only)

Plugs (with the hex hole) to seals the cable ground connection port is installed with the designated torque at the time of shipment. Users may re-install the plug when they need to change the cable gland to the opposite side. Please be careful with over-torque when you tighten the plug. The product could be damaged because it is made by resin.

Plug installation torque
0.8 ~ 1.2 Nm

If the installation torque cannot be maintained, pay attention to the deformation of the plug and do not over-torque it to be deformed. (The water resistance level is secured when installed with the designated torque.)

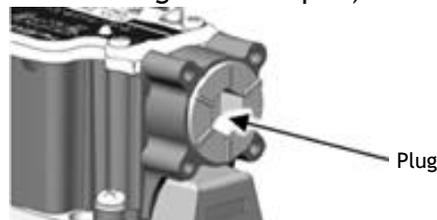


Figure 2. Plug part (DG4V-3)

The plug locations at the time of the shipment from the factory are shown in the following table. For the single solenoid valves, the plug is installed by the side with no solenoid coil. (It is designed to have the cable gland to be mounted on the side with the solenoid coil.)

Solenoid	Spool Type	Factory plug position
Double	*C/*N	A Sol. Side
Single	*A/*B	
	*AL/*BL	B Sol. Side

Table 1. Plug positions at the factory

4. The arrangement of the terminal block (P type [plug-in type] only)

The terminal block arrangement is different from the old model. As shown in Figure 3, the double solenoid type of the old design has two pairs of terminals. The terminal shorted by the tool is the common terminal. Single solenoid has a pair of terminals and no common terminal.

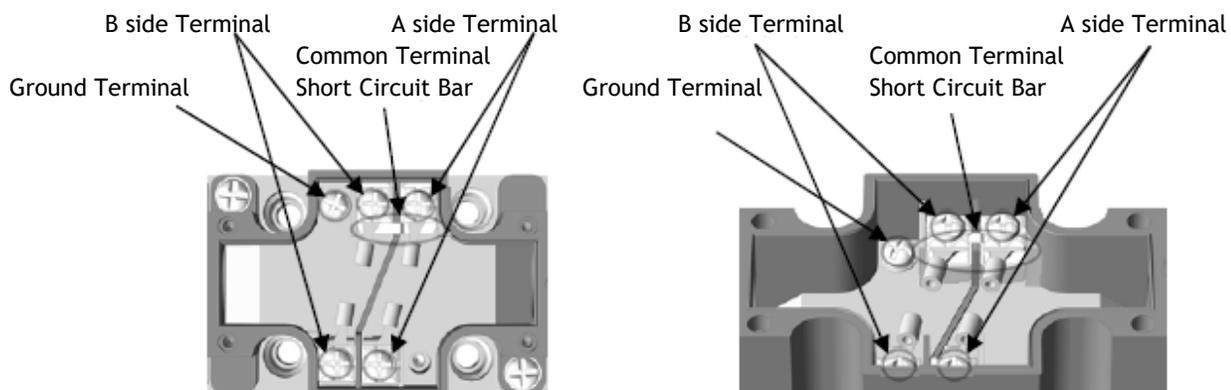


Figure 3. DG4V-3-56 Design series terminal block

Both single and double solenoid DG4V-3 100 series carry a common terminal as shown in Figure 4 and Figure 5. When two wires are needed to be connected, install those two terminals back to back.

Single solenoid also uses the common terminal.

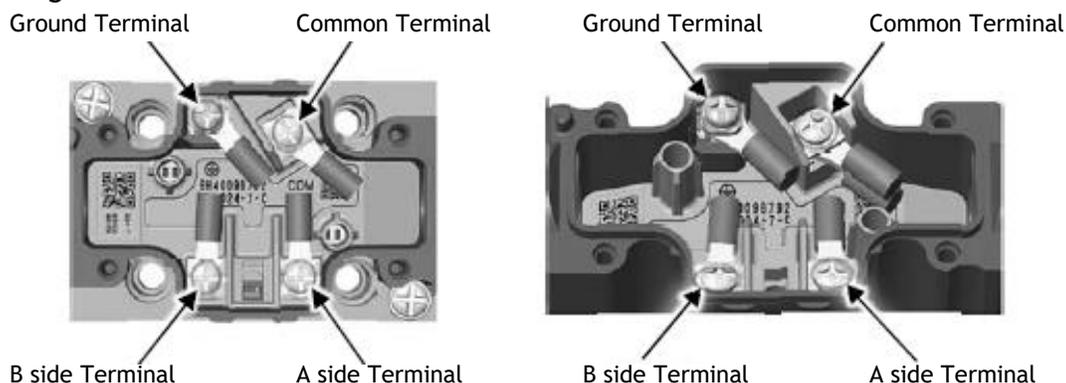


Figure 4. DG4V-3 100 Design Series Terminal Block

Power common version with the built-in diode has its common terminal located in the different spot as Figure 5 shows.

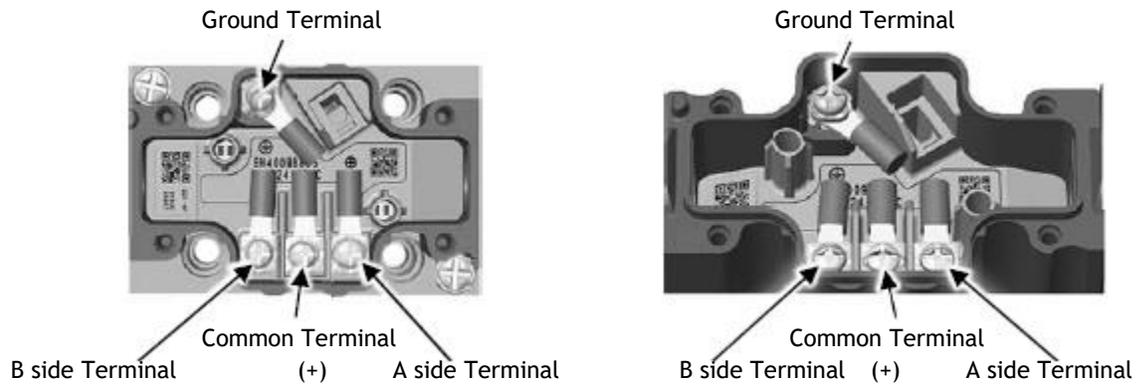


Figure 5. DG4V-3 100 Series terminal block with built-in diode (+) common