



Safety precautions

W Series: Warnings and Cautions

Always read this section before use.

Refer to "Pneumatic, vacuum and auxiliary components (CB-024SA)", "Pneumatic Valves (CB-023SA)", and "General Purpose Valves (CB-03-1SA)" for general and product-specific precautions.

Product-specific cautions: fluid control valves ADK11-W, CHB/G-W (Outdoor Series)

* Refer to the product-specific cautions of ADK/CHB/G in "General Purpose Valves (No.CB-03-1SA)" for precautions not included below.



WARNING

■ Design/consideration

- This product is for industrial use. Do not use for medical purposes, or in any equipment or circuit that concerns human life.
- The W Series does not have explosion-proof certification, so it cannot be used in atmospheres requiring explosions.

■ Working environment

- This product has outdoor specifications, but should not be used in the following environments.
 - When ambient temperature exceeds the specifications. (The product temperature is at risk of exceeding the ambient temperature when exposed to direct sunlight.)
 - When fluid freezes.
 - In atmospheres containing corrosive gases, liquids, chemicals, and explosive gases.
 - Locations with vibration or impact.



CAUTION

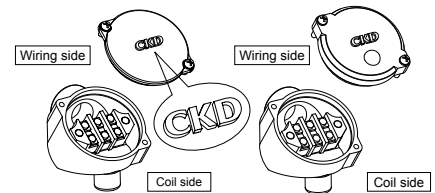
■ When wiring (ADK-W Series or CHB/G-W Series)

1) Precautions for disassembly and assembly

● Precautions for assembly of cap

The cap must be assembled in a certain direction. When the cap is to be assembled after performing wiring work, etc., make sure to assemble the cap with attention to the assembly direction. (In the figure to the right, align with the direction of the CKD logo mark)

When placed in the opposite direction, the cap cannot be assembled.



2) Wiring

(1) Fasten crimp terminals to the electrical wiring and process the ends of the wires before installing them.

* Use terminal thread of size M3 and a crimp terminal with an outer diameter of 7 mm or less.

* The crimp terminals used should be sheathed terminals.

(2) Tighten the screws with the following tightening torque.

* Gap mounting screw tightening torque: 0.5 N·m.

* Terminal screw tightening torque: 0.5 N·m.

(3) Two lead wires should be wired from the terminal block of the coil.

* This applies to the terminal box without lamp 3E (ADK11-W Series) and B (CHB/G-W Series), and to the terminal box with lamp 3L (ADK11-W Series)

There is no polarity. Wire to the A terminal and C terminal on the terminal block.

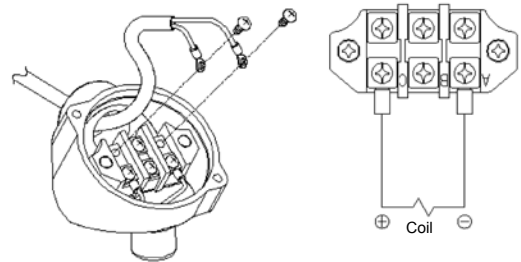
* For terminal box with lamp, BL (CHB/G-W Series)/DC voltage

If there is polarity, be careful while wiring.

Wire the ⊖ pole to the A terminal and the ⊕ pole to the C terminal on the terminal block.

(The solenoid valve will operate even if the polarity is incorrect, but the lamp will not turn ON.)

Note: It is recommended that you insert a fuse to the electrical circuit for safety and unit protection.





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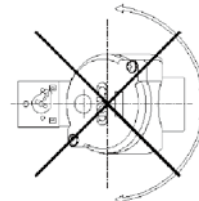
CAUTION

When using the product

- The male thread section of the round terminal box main body is fixed to the coil section of the solenoid valve using an adhesive. Do not remove the round terminal box main body or change the direction of the wiring port. Doing so may cause rainwater to enter the round terminal box through the male thread section.
- With the CHB-W Series, follow the table below and do not configure the exhaust ports for atmosphere release, and be sure to implement measures to prevent foreign matter, dust, and rainwater from entering the body.
- In addition, implement waterproof measures for the electrical wires and piping with the use of cable glands, etc.

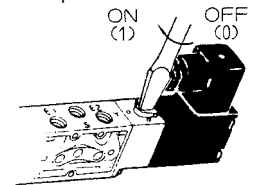
Actuator (actuation)	Applicable Port
W (double acting)	-
WR* (Single acting)	EXH
V1 (with solenoid valve/double acting)	E1,E2
X1 (with solenoid valve/single acting)	E1, E2, EXH

* When using a silencer, mount E1 or E2 to the silencer for a V1, and an E1 for an X1.



Manual operation (CHB-W Series)

- Use the manual button for confirmation of operation during test operation. When used for long periods in the locked state, the locking mechanism may fail and switch the unit from ON to OFF.
- Manual override
 - As this is a pilot solenoid valve, the main valve will not be switched even if the manual override is operated unless air is supplied to the S port.
- Locking manual override
 - Turning the locking manual override by approximately 45° with a screwdriver will create a state that is the same as when energized, where the valve is locked. Rotation is only in the clockwise direction. Do not force the rotation, as rotating the device further after the valve has been locked will cause damage. Be sure to release the lock (0 position) of the locking manual override prior to starting normal operation.



Others

- This product is guaranteed for outdoor use, but not corrosion resistance (no rust or discoloration).
- This product is provided with performance which enables outdoor use in standard environmental conditions. This product satisfies certain performance requirements after implementation of an accelerated weathering test (sunshine weathering meter) for 1000 hours and a (salt, dry, moisture) compound cycle test for 960 hours. However, the risk of defects such as rust occurring in a short amount of time may increase when using the unit in a special environment. Consult with CKD when using this device in a special environment.