

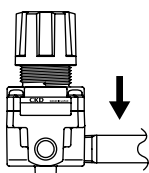
Product-specific cautions: Regulator for water WR1/WR2 Series

Design/selection

⚠ WARNING

- Use the product in the range of conditions specified for the product.
- This product is designed for industrial use. Do not use for medical purposes, or in any equipment or circuit that concerns human life.
- Output pressure exceeding the regulator's set pressure could result in damage or faulty operation of the secondary side devices. Be sure to install a safety device.
- Piping load torque
Avoid applying piping load or torque to the body or pipes.

Max. torque N·m	Rc1/8, Rc1/4	Rc3/8, Rc1/2
	15	50



⚠ CAUTION

- Certain fluids (water quality) can shorten expected useful life to a significant degree. Use general pure water for industrial use. Do not use any liquid or fluid that is intended for the removal of foreign matter or water stains, or that can lead to corrosion or rubber swelling.
- Mesh filters are provided to remove initial foreign matter, such as sealant tape. If it is known that foreign matter is in the fluid, install a strainer before the regulator. Check for clogging in the mesh filters and strainers.
- Vibration may occur depending on the usage and piping conditions. Lower the primary pressure if vibrations occur.
- When the primary pressure is released, the secondary pressure may flow to the primary side. If a problem occurs in another device due to the inflow of secondary side fluid to the primary side, provide a circuit to retain the pressure.
- The setting range for the regulator's secondary pressure should be within 85% of that of the primary side. Otherwise, the pressure drop may increase.

Mounting, installation and adjustment

⚠ CAUTION

- Install the product where it is not exposed to direct sunlight.
- When using this product in a cold climate, take the necessary measures to prevent freezing.
- Flush and clean the pipes. Dirt or foreign matter remaining in the piping will deteriorate product performance.
- Make sure that no foreign matter enters the pipes when connecting the pipes and fittings. When screwing in piping or fittings, check that swarf from port threads or sealant does not get inside. Dirt or foreign matter remaining in the piping will deteriorate product performance.
- Match the flow direction and the direction of the arrow on the made from for correct connection. This product does not operate when it is connected in the opposite direction.
- Secure sufficient space for maintenance and inspection.
- Do not install this product in a location where it may be subject to vibrations or shocks.

- Use appropriate torque to hold the body and tighten the pipes when connecting them. (The following table shows the recommended torque values.) The product may be damaged if excessive torque is applied.

Max. torque N·m	M5	Rc1/8	Rc1/4	Rc3/8	Rc1/2
	0.2 to 0.3	18 to 20	23 to 25	31 to 33	41 to 43

- Use a pressure gauge and pipe plug to block the pressure gauge connection port.
- It is recommended that pipes be connected to the breathing port when using this equipment. This ensures safe water discharge even if a crack occurs in the diaphragm due to excessive pressure, pressure fluctuation, or freezing.
- When the panel mounting nut is loosened, the nut acts as a jack and enables the knob to be removed easily. Be sure to install the nut before installing the knob.

EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/AD
APK/ADK
DryAir
EX-XPLNprf
XPLNprf
HVB/HVL
SDB/NAB
LAD/NAD
Water-Rela
NP/NAP/NVP
SNP
CHB/G
MXB/G
Other valves
SWD/MWD
DustColl
CVE/CVSE
CCH/CPE/D
LifeSci
Gas-Combus
Auto-Water
Outdoor
SpecFld
Custom
Ending

EXA	Use/maintenance
FWD	<p>⚠ CAUTION</p> <ul style="list-style-type: none"> ■ Do not modify this product. ■ Before conducting maintenance, stop the supply of the fluid and make sure that there is no residual pressure. ■ Do not store this product in a hot, humid atmosphere or atmospheric conditions outside of the specified range for a prolonged period of time. This can lead to deterioration of the resin and rubber parts. ■ Release the lock before adjusting the pressure. Forcibly turning a locked pressure adjustment knob could cause damage. ■ Adjust pressure in the direction of the pressure increase. The correct pressure cannot be set if pressure is adjusted downward. ■ This product uses pressure reduction; as such, pressure cannot be reduced if the secondary side is not consuming. ■ The facilities pressure changes from the initial setting due to the working environment and conditions, as well as aging of part materials. Check the pressure regularly, and reset if conditions have changed.
HNB/G	
USB/G	
FAB/G	
FGB/G	
FVB	
FWB/G	
FHB	
FLB	
AB	
AG	
AP/AD	
APK/ADK	
DryAir	
EX-XPLNprf	
XPLNprf	
HVB/HVL	
S \diamond B/NAB	
LAD/NAD	
Water-Rela	
NP/NAP/NVP	
SNP	
CHB/G	
MXB/G	
Other valves	
SWD/MWD	
DustColl	
CVSE/CVSE	
CCH/CPE/D	
LifeSci	
Gas-Combus	
Auto-Water	
Outdoor	
SpecFld	
Custom	
Ending	