



Components for Process Gas

# To Use This Product Safely

Please be sure to read this before use.  
For General Precautions refer to Intro 9.

Individual Precautions: Process Gas Valve High Durability Type AGD□□R-HD/HDF & AGD21R-A Series

## Design / Selection

### 1. Confirmation of Specifications

#### Warning

- This product is not designed to function as a safety valve, such as an emergency shut-off valve. If such a function is required, please implement other reliable safety measures.
- Incorrect equipment selection and handling can cause problems not only in this product, but also to your system. Product selection and handling should be performed after confirming the product specifications and their suitability for the customer's system, at the customer's own responsibility.
- Check the compatibility between the gas contact part materials and working fluid before use.
- Use within the specified fluid temperature and pressure range.

### 2. Ambient Environment

#### Caution

- Do not use in atmospheres containing corrosive gases or in locations where substances that may affect the product such as chemicals, salt water, water or steam could make contact. Use within the specified ambient temperature range.

### 3. Securing Space

#### Caution

- Secure sufficient space for maintenance and inspection.

### 4. Piping

#### Warning

- Foreign materials or burrs in the piping and piping work could damage the valve seat or diaphragm seal, and lead to leaks. Before installing the valve, be sure to remove any debris or burrs and take measures such as installing a primary side filter.

#### Caution

- Make sure not to use the wrong connecting port when connecting the pipes to the product.
- When piping, do not apply tension, compression, bending or other forces to the valve body from the piping.
- If the tube for piping is bent, it will cause malfunctions; pipe with suitable tube lengths.
- Use the driving solenoid valve connected to the drive unit according to the specifications or applications.
- As for operating air, use air or inert gas passed through a filter with a filtration rating of 5 μm or more.

### 5. Purging

#### Caution

- When removing valves using toxic, combustible or corrosive gases, purge with an inert gas such as nitrogen gas before removal.

### 6. During Use

#### Warning

- Do not touch heater-equipped products with hands or body. Direct contact may cause burns.

#### Caution

- Do not use valves as a footing or place any heavy objects on top of the valves.
- Pay attention to the bending radius of the fiber when installing the product with sensor.
- Store unused products in a location where they are not exposed to direct sunlight or high temperatures.

For cautions about mounting, installation, adjustment, use, and maintenance, refer to CKD components Product Site (<https://www.ckd.co.jp/kiki/jp/>) → "Model No." [Instruction Manuals](#)

MEMO

AGD	Process Gas Valve
OGD	
MGD	
LGD	
High Durability	Process Gas Valve
Other Gas Components	
Regulator	
Integrated System	
AVB	High Vacuum Valve
MVB	
IAB	
Ending	Ending