



Components for High Vacuum

# To Use This Product Safely

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

Individual Precautions: Manual valve for high vacuum MVB Series

## Design / Selection

### 1. Confirmation of Specifications

#### Warning

- Incorrect equipment selection and handling can cause problems not only in this product, but also to your system. Please be sure to confirm the specifications of this product and its compatibility with your system before use.
- Check the compatibility between the gas contact part materials and working fluid before use.
- Use within the specified fluid temperature and pressure range.

### 2. Working fluids

#### Caution

- This product is designed for controlling vacuum or inert gas. If other fluids (active gas, liquids, solids, etc.) pass through, the product may fail to operate normally or may display decreased performance. Check the compatibility between the gas contact part materials and working fluid before use. If there is a risk of solidification of the working fluid, confirm that this poses no problems during use.
- Avoid using fluids that build up crystallization in the piping.

### 3. Selection

#### Caution

- The bellows interior is directly connected to the atmosphere. Do not block the connecting hole between the bellows interior and the atmosphere (1 hole on the top of the adaptor) in use.

### 4. Mounting

#### Caution

- Perform piping so no excessive force is applied to the flange. If heavy objects and mounted components vibrate, fix so that torque is not applied directly to the flange.

### 5. Securing Space

#### Caution

- Secure sufficient space for maintenance and inspection.

### 6. Piping

#### Caution

- When piping, do not apply tension, compression, bending or other forces to the valve body from the piping.
- Durability may decrease due to exhaust flow, so we recommend use of the bellows side as the exhaust side except for models with limited vacuum pump connection ports. In addition, since durability varies depending on the operating conditions, please confirm sufficiently.

### 7. During Use

#### Caution

- Do not use valves as a footing or place any heavy objects on top of the valves.

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](#)

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