



Pneumatic Components

To Use This Product Safely

Be sure to read this before use.
For general pneumatic components precautions, refer to Intro 15 for details.

MEMO

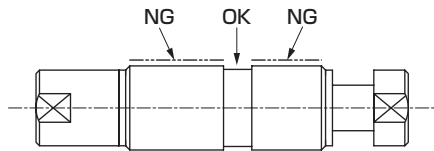
Design / Selection

Warning

- Working ambient temperature ranges differ depending on bearing. Be sure to use within the specified range.
 - Standard Bearing Type (S): 5 to 50°C
 - High Precision Bearing (H/HV): 5 to 40°CNote) FBU2-SU is a standard bearing type.

- This product has a built-in magnet.
Do not use in locations with magnetic chips, dust, etc. This can cause damage or malfunction.

- Fix the product in place with a nut (full thread: 8M, 12M, SU) or hexagon socket head set screws (Spigot joint type: 7D, 12D). When using set screws, utilize the groove part of the fixed shaft. Follow the mounting precautions on the next page during installation.



- Mounting orientationUse vertically.
Lateral load or moment force on the movable shaft affects characteristics variation and lifespan.

Caution

- When using for vacuum applications, use a tube with low piping tension as the tension resulting from the piping tube is added to the pressure.
Recommended Tubing: UP Series
(Antistatic Tubing, Air Fiber)

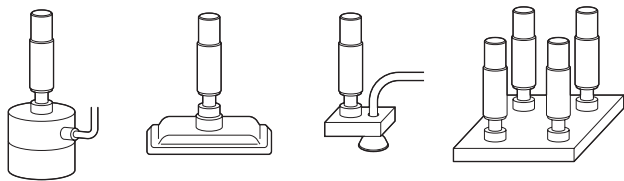
- The load (jig and suctioned workpiece) on the movable shaft must not exceed the load capacity.
 - FBU2-7D/8M: 30 g or less
 - FBU2-12D/12M: 80 g or less
 - FBU2-SU: 200 g or less

- When conveying the workpiece, acceleration should not be more than 4 G. Excessive acceleration may cause product damage.

- When used for a rotating application, note the max. holding torque of the magnet. If force exceeding the maximum holding torque is applied, it may step out and reverse 180°.

- The internal flow path high accuracy (HV) product has a leak.
A gap seal structure is adopted to improve pushing pressure stability and return position accuracy. Therefore, vacuum leakage occurs. (Pressure drop within 10 kPa relative to initial pressure -80 kPa)

- Using the product in the following way can cause moment force on the movable axis even at below load capacity, leading to malfunctions or failure.
 1. When a large jig other than the suction pad is attached to the head piece.
 2. When a large or irregularly shaped suction pad is attached.
 3. When using in ways which apply eccentric load to the movable axis.
 4. When holding one jig or workpiece with several FBU2 units.



Consult with CKD when using this unit with the method above.

For precautions regarding mounting, installation, adjustment, operation, and maintenance, please refer to the CKD Equipment Product Site (<https://www.ckd.co.jp/kiki/en/>) → 'model No.' → [Instruction Manual](#)

Precision Components

LBC

GFM

PVP

FBU2

AFB-RB

Ending

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