

## Pneumatic Shaft-Locking Clamps (Light Duty) INSTRUCTIONS

### ■ Installation

1. Apply air to the M5 port to make it unclamped.

[Required air pressure]

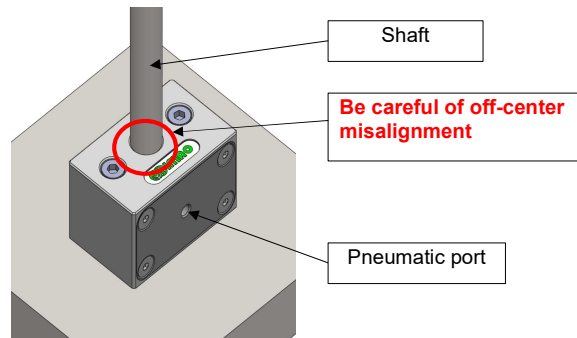
-3L type: 0.3 MPa or higher

-5L type: 0.5 MPa or higher

**\* Do not insert screws into the pneumatic port.**

2. Insert the shaft into the hole in the body with the unit unclamped.

Temporarily tighten the unit using hex socket head cap screws and check that the shaft can slide or rotate smoothly. Then fully tighten the screws to secure the unit.



3. After installation, test the clamp/unclamp operation several times to ensure proper operation.

- Shaft should be locked in the clamped state with air supply OFF.

- Shaft should slide or rotate smoothly in the unclamped state with air supply ON.

**\* If the shaft does not slide or rotate smoothly, adjust the mounting position of the unit so that the shaft and hole are concentric, and re-install the unit.**

[When lubricant is used on shaft] **\*Reference values based on in-house tests**

Anti-rust lubricant spray: Almost no effect on catalog performance values (sliding load/holding torque)

Grease: Approx. 10 to 30% decrease in catalog performance value (sliding load/holding torque)

### ■ Cautions

- Clamping/unclamping operations must be performed with the shaft not in motion.

Cannot be used as a brake of a moving shaft.

- Do not force the clamped shaft to move.

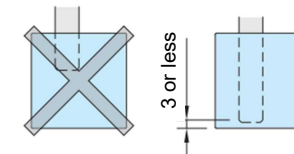
- Do not operate frequently without the shaft.

- Manual unclamping is not possible.

- Use clean air by removing moisture and debris with an air dryer and air filter.

- Impurities in the compressed air can cause malfunction.

- When clamping, make sure to insert the shaft deep enough as shown in the figure below.



**\*)** It is recommended to use the clamp with the shaft going through the hole.

### IMAO CORPORATION

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