

CY1L Series Replacement Procedure for Seals

1. Maintenance

If the cylinder needs to be disassembled to replace the piston seal, wear ring, etc., care should be taken for the following points.

- 1-1. To remove the external slider or the piston slider from the cylinder tube, the holding force must be released by shifting the positions of the external slider and the piston slider forcibly. Removing them without doing so may cause the respective magnets to attract each other, making them impossible to separate.
- 1-2. Upon completing the above step to remove the sliders, remove the cylinder tube and plate A from guide shafts A and B by loosening the hexagon socket head cap screw on the plate A side. (While carrying out replacement work (of the packing, etc.), please refrain from disassembling other parts of the product as air leakage may result.)
- 1-3. The magnet assembly (piston slider and external slider) must not be disassembled. Doing so may result in decreased holding force and other problems.
- 1-4. The piston slider and external slider have a set direction (L type and $\phi 6$, $\phi 10$). Refer to the diagram below for details. Connect the external slider (slide block) and the piston slider and insert into the cylinder tube as shown in Fig. 1-(a). If the positioning resembles Fig. 1-(b), rotate the piston slider to insert.

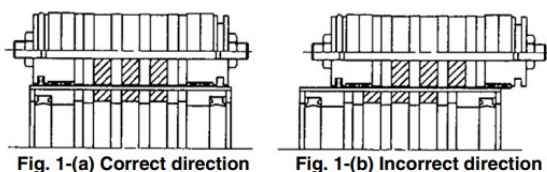


Fig. 1 Direction of the slider

- 1-5. Before handling the magnet assembly, remove your wrist watch so as not to subject it to the effects of the strong magnetic field.
- 1-6. Thorough care should be taken to prevent the magnets from dropping on the floor or being knocked against metal objects.

2. Other Precautions

- 2-1. The slider contains parts made of iron, so care should be taken to prevent water droplets from entering the cylinder tube.
- 2-2. Grease should be periodically applied to the bearing part of the slide block.
- 2-3. After the product is reassembled, thoroughly flush the piping with air to remove any remaining dirt or cutting chips from inside the piping.
- 2-4. Care should be taken to prevent the external surfaces of the cylinder tube and the guide shaft from being scratched, dented, etc. Damage to the scraper, wear ring, and bushing may lead to a malfunction.
- 2-5. Do not use the cylinder (cylinder tube, guide shaft surface) in an environment where it will be exposed to (warm) water, coolant, etc.