

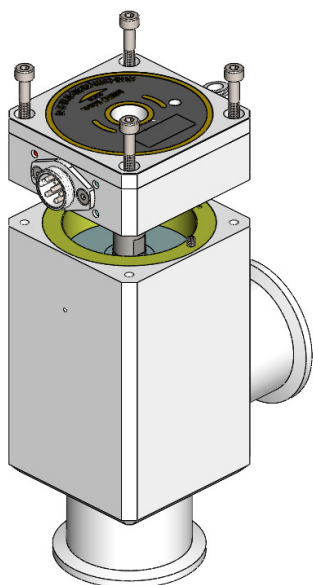
All-in-one High Vacuum Poppet Valve Maintenance Manual



● Disassembly Method

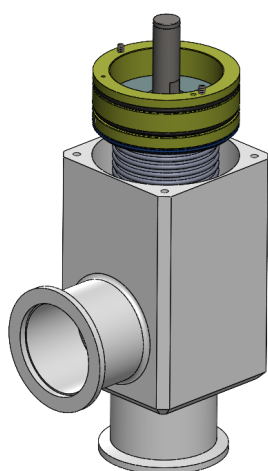
Step 1

Unscrew the four screws at the top and remove the electrical box.



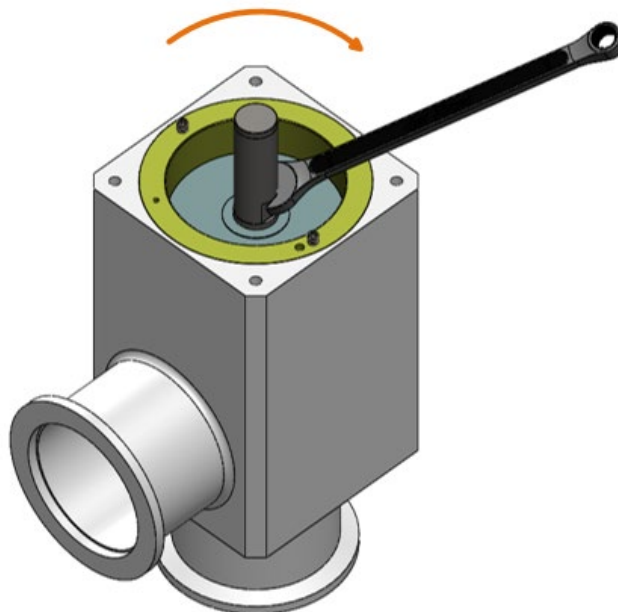
Step 3

Pull out the valve core.



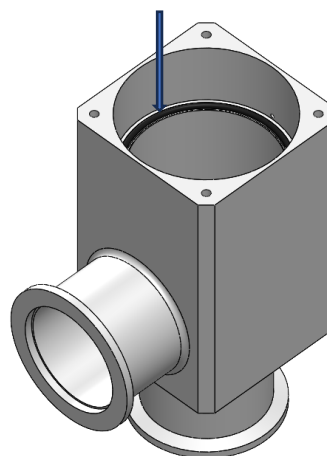
Step 2 (Important)

Use a small open-end wrench to rotate the signal rod clockwise by 180°



Step 4

Use a wooden toothpick to remove the static O-ring (1).



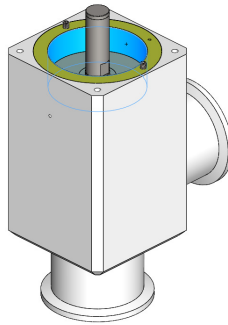
Pay special attention to Step 2. Forcibly pulling out without following this step may lead to excessive compression of the bellows pitch, thus shortening its lifespan. After using a small open-end wrench to rotate the valve core clockwise by 180° in Step 2, the bellows can be easily pulled out.

- **Cleaning Method**

After disassembling the electrical box, valve core, valve body, and O-ring, clean the bellows, valve body, and O-ring with ethanol. After cleaning and drying, reassemble the valve in the reverse order of disassembly. After installing the O-ring into the seal groove in the valve body, avoid shaking the valve body to prevent the O-ring from slipping out of the seal groove, which could cause the O-ring to be damaged and leak.

- **Cylinder Maintenance**

Normally, after about 10 million operations, a layer of perfluoropolyether special lubricant should be reapplied to the inner wall of the cylinder. The use of vacuum grease is strictly prohibited. If the valve makes an abnormal noise during operation, it indicates that lubricant needs to be reapplied. Under normal circumstances, 10 million operations is not the life limit of the valve, which can generally continue to operate for an additional 2-5 million operations.



- **Electrical Maintenance**

If the valve's solenoid fails, causing signal faults or issues that prevent the valve from opening or closing, or if there is no signal feedback, follow the disassembly steps to first remove the electrical box and replace it with a new one (without having to disassemble the valve on the equipment).

- **Valve Leak Maintenance**

After cleaning and reinstalling the valve, if the O-ring (1) is not correctly installed, it may cause serious leakage of the valve. In this case, reinstall the O-ring (1); if the O-ring (1) is damaged, please contact the manufacturer for replacement. If the bellows are forcibly pulled out without following Step 2 during disassembly, it may lead to a shortened lifespan or rupture of the bellows; in this case, please contact the manufacturer for replacement.

