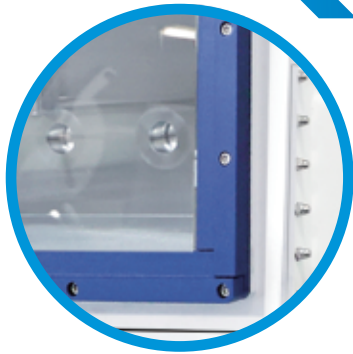


**Sealing technology revolution !**

# O-ring Vacuum Seal Flange Window Glove Box



Flange Type O-Ring Sealed Window

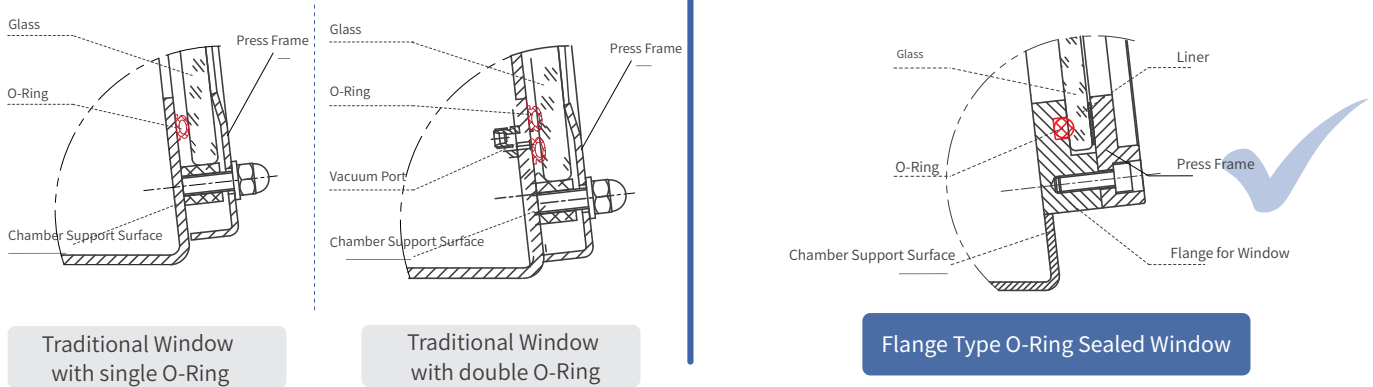
Internal Flange Forming by One-Cut Milling

Vacuum O-ring Sealing, "0" Leakage Rate

Easy Disassembly & Reassembly / Convenient For Maintenance

## Comparison of Traditional Window and Flange Type O-Ring Window

### Comparison Diagram of Sealing Structures:



### Disadvantages of Traditional Window

- 1. **No Flange, no sealing grooves:** The supporting surface is formed by bending and splicing of the chamber plates with poor flatness and weak support. And the O-ring is glued on the support surface.
- 2. Sealing method: The hollow O-Ring is placed between the glass and supporting surface.
- 3. Hollow O-Ring: By the compression deformation of the hollow O-Ring, the unevenness of the support surface gets Compensated. The hollow diameter is around 2~4mm, some poor-quality O-ring is up to 10mm. And there are wrinkles after the O-Ring is pressed which leads to a highleakage rate and unreliable sealing.
- 4. A kind of Simple mechanical sealing, not a Vacuum sealing.
- 5. Applicable for sealing of Large thin-walled parts whose sealing surface cannot be machined, or for simple sealing of non vacuum equipment without quality requirements.

### Features and Advantages of Flange type O-ring sealed Window

- 1. The Flange for window sealing is integrally processed, **using one-cut milling** by a large gantry machine, without seams on the sealing groove and the sealing surface, which achieves the **flatness < 0.1mm/m**.
- 2. One-time laser welding of the Flange integrated with groove and the chamber body, **with welding deformation < 0.2mm**.
- 3. Easy for Window disassembly & reassembly; Convenient for operation and maintenance. End users are able to take care of Window disassembly themselves without needs from professionals.
- 4. The Flange type **O-ring** is embedded in the sealing groove, a way of vacuum air-tight seal, without breakpoints and seams, with strong corrosion resistance and good sealing performance, which improves the overall glove box **leakage rate to < 0.0006vol%/h**.
- 5. Applicable for the sealing of vacuum equipment View Window and Sealing Door.