GNB Viewports

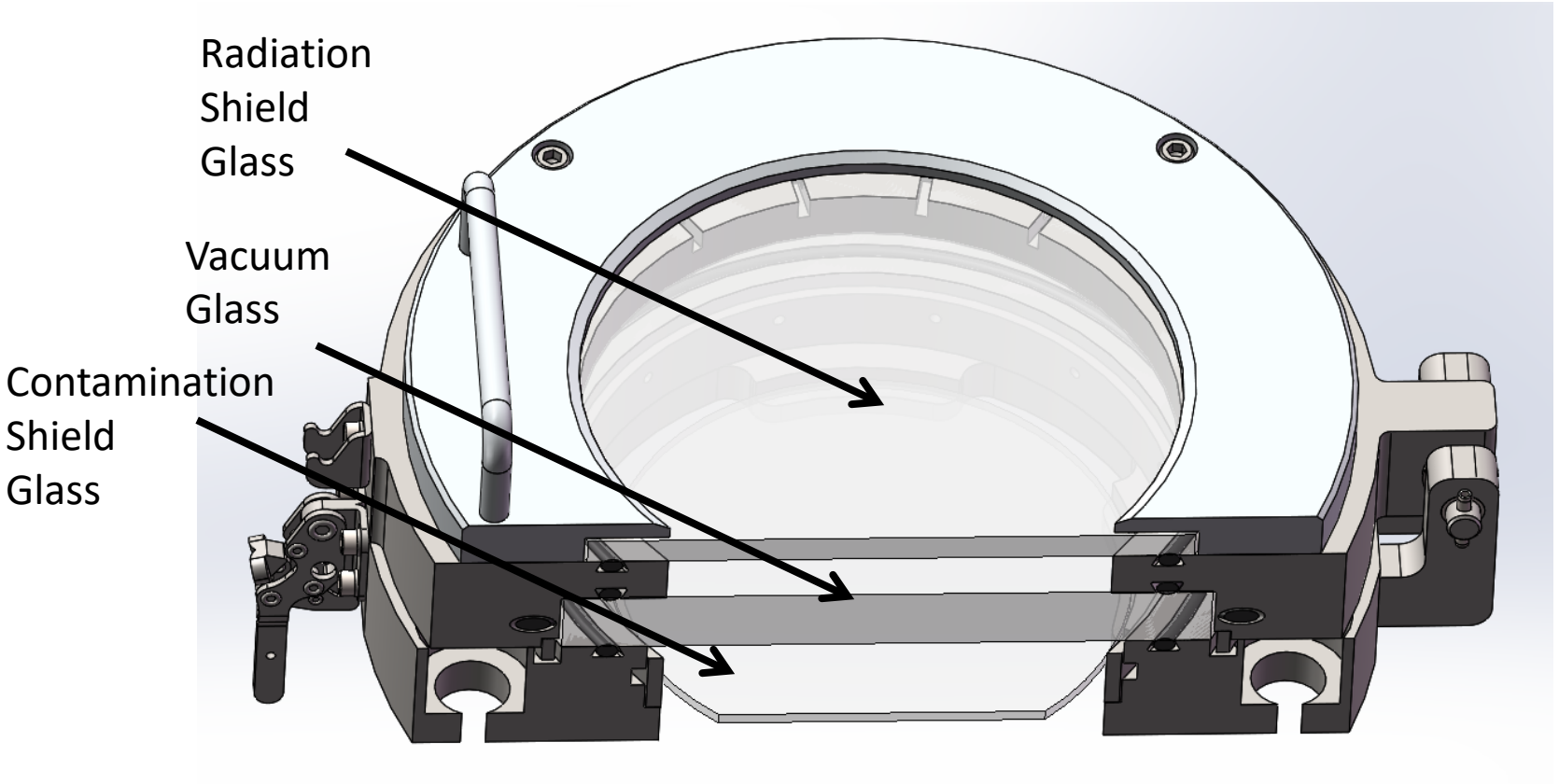
GNB Makes Custom Viewports for these Applications

- Viewports where a camera is outside in the atmosphere
- Viewports that stop radiation
- Viewports for high temperature environments
- Viewports for contaminated environments

Viewports where a Camera is outside in the Atmosphere

Typical Camera Viewports

Viewports that Block Radiation

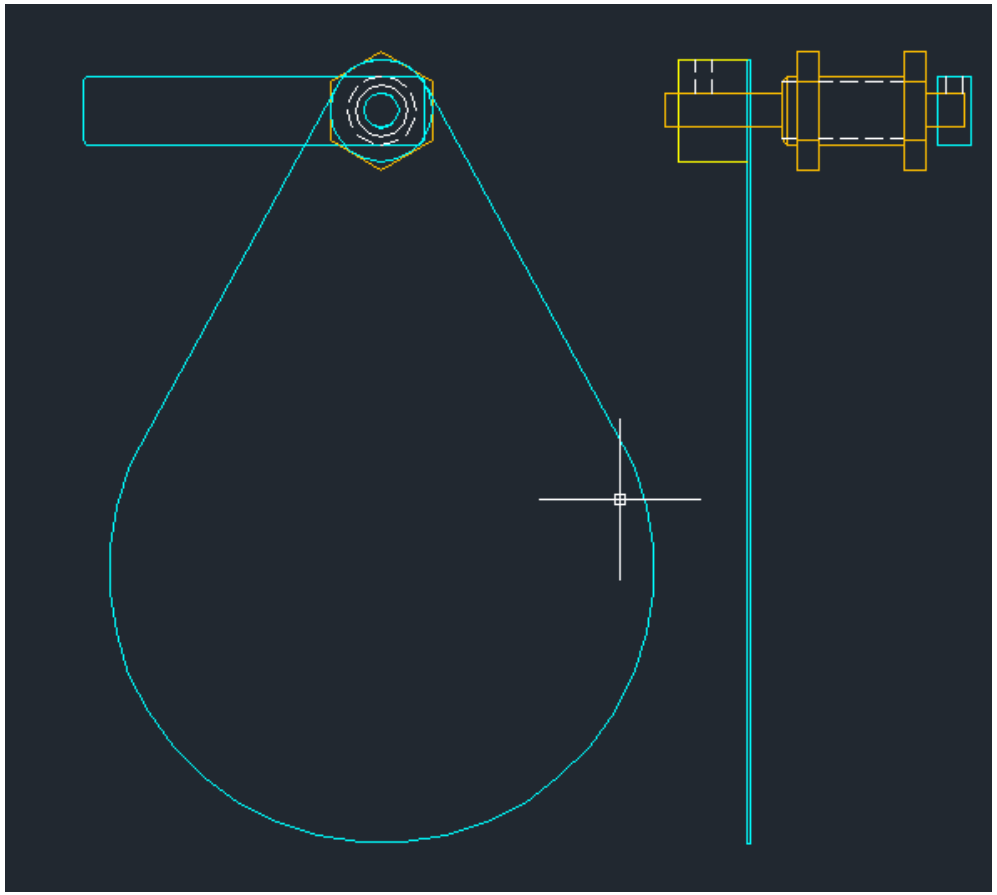


- Uses leaded glass to stop radiation
- Designed with no direct paths for radiation to escape

Viewports for High Temperature

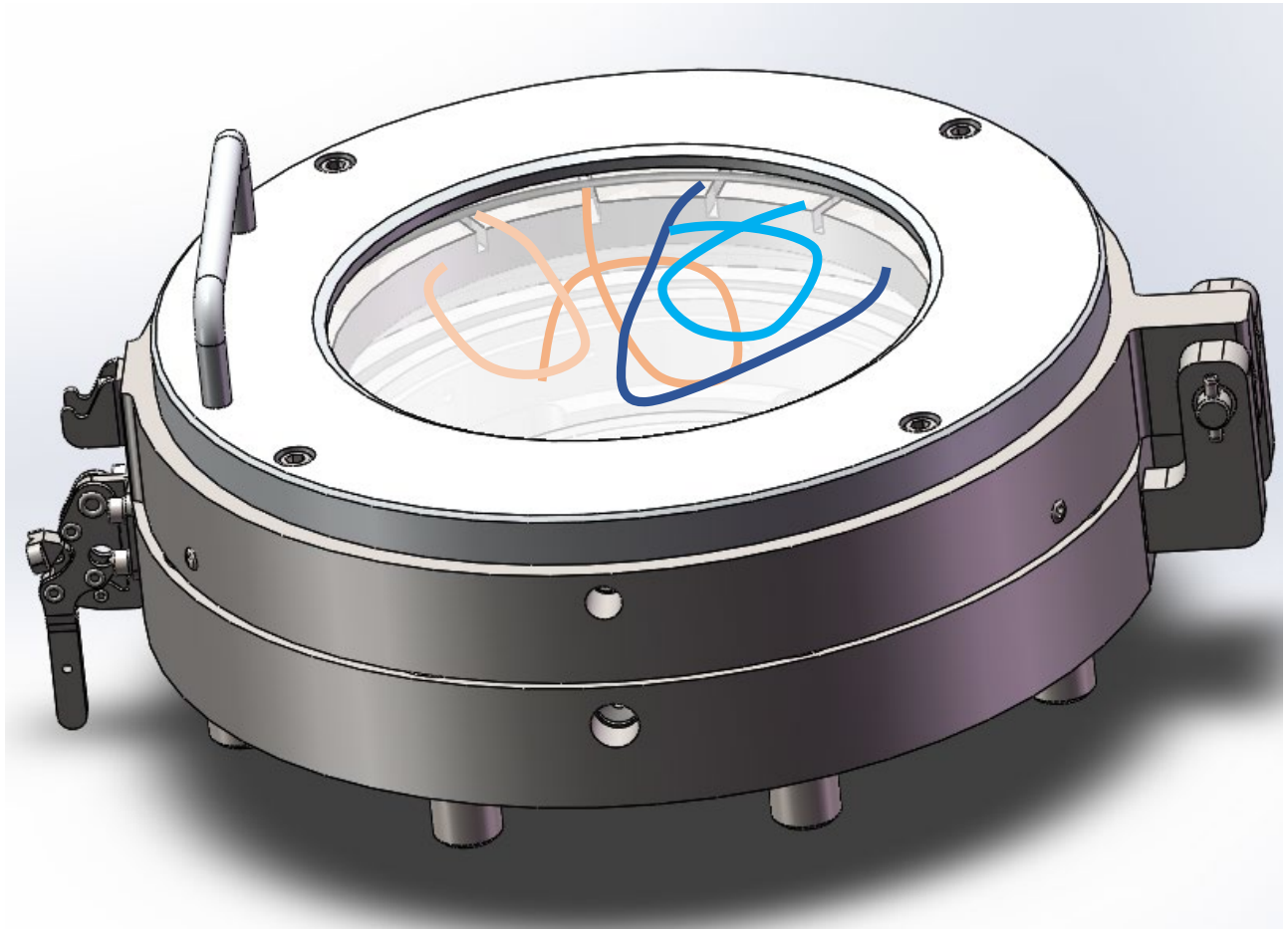
- Use Pyrex (borosilicate glass) for stability across temperatures
- Use Argon or Water cooling

Viewports for Contaminated Environments



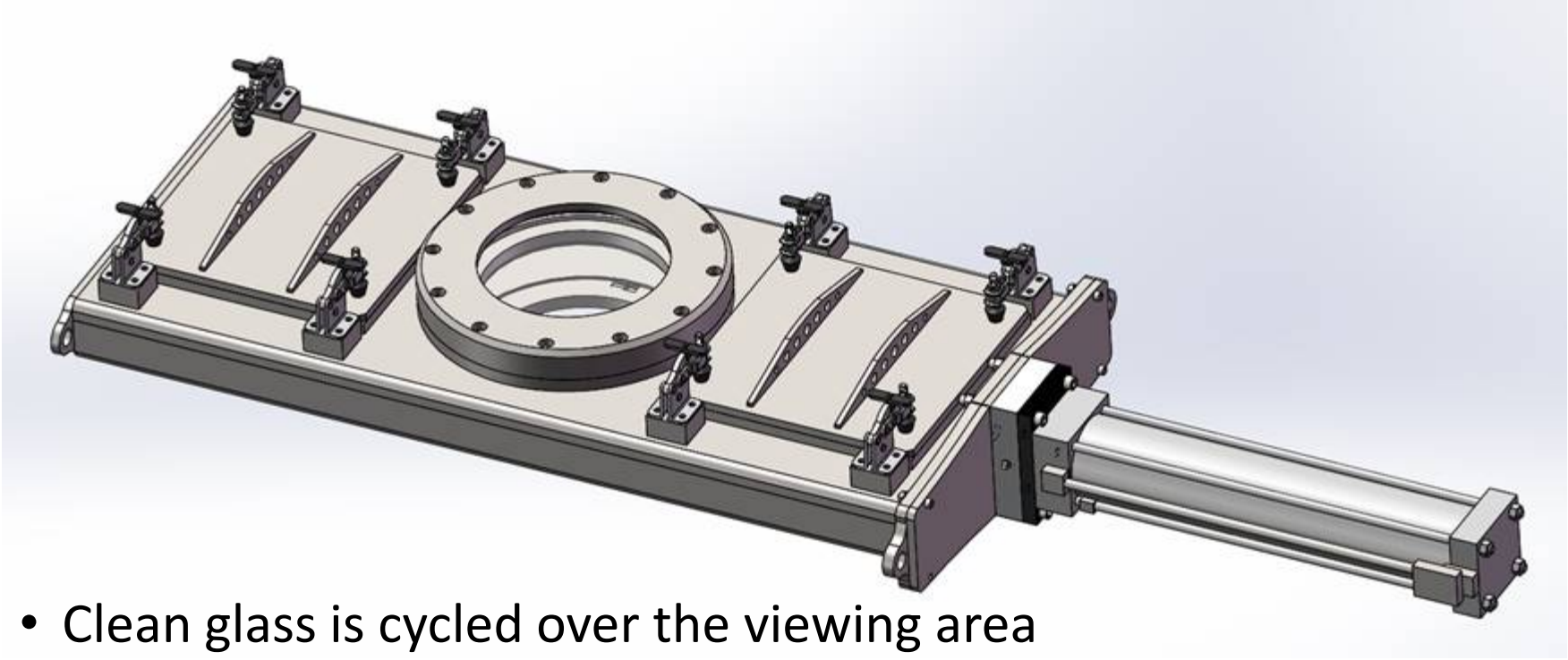
- Standard teardrop shutter

Gas Curtain Viewport



- Uses purge gas to keep contamination from reaching the viewport

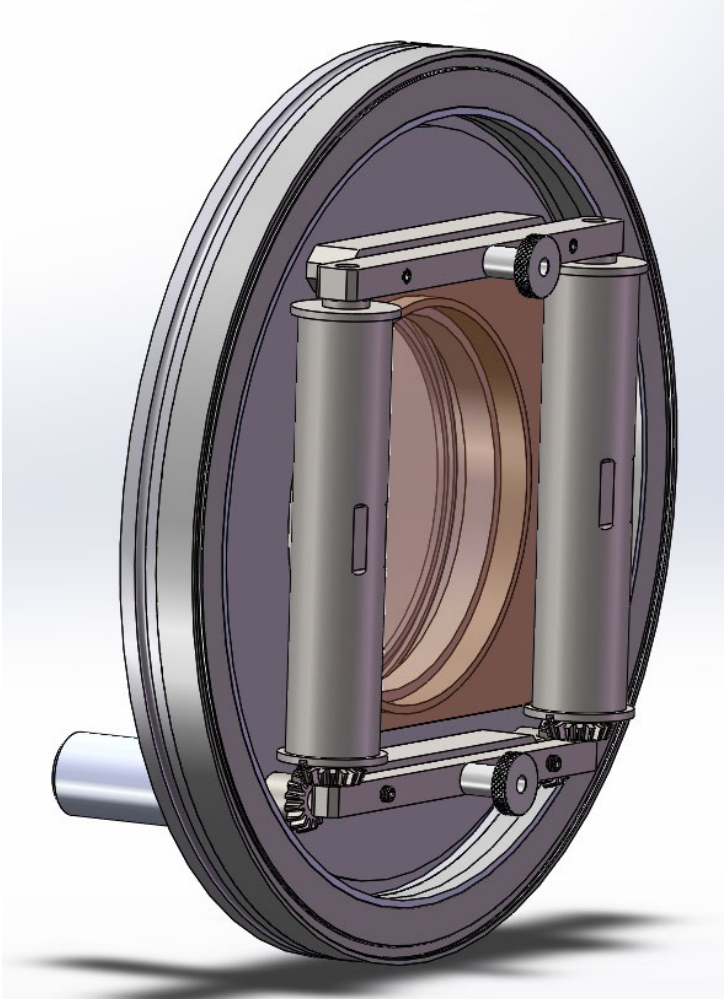
Dual Glass Viewport



- Clean glass is cycled over the viewing area
- Dirty glass is replaced from the outside
- Body evacuated and ready for next cycle

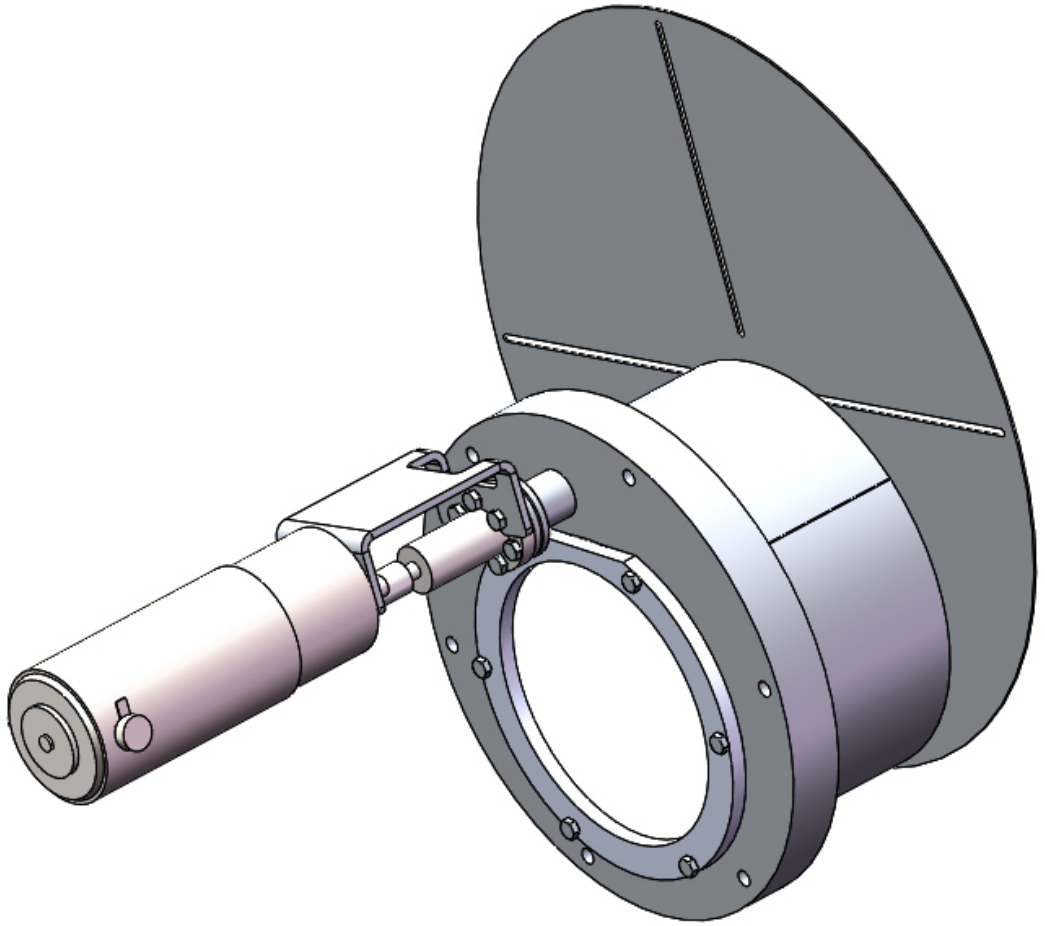
Roller Film Viewport

- Kapton or Teflon film on rollers
- When contaminated the film is advanced
- External knobs lock to keep film tight
- 700 deg F max
- When roll is used the film is replaced from inside the chamber (or hinged viewport)

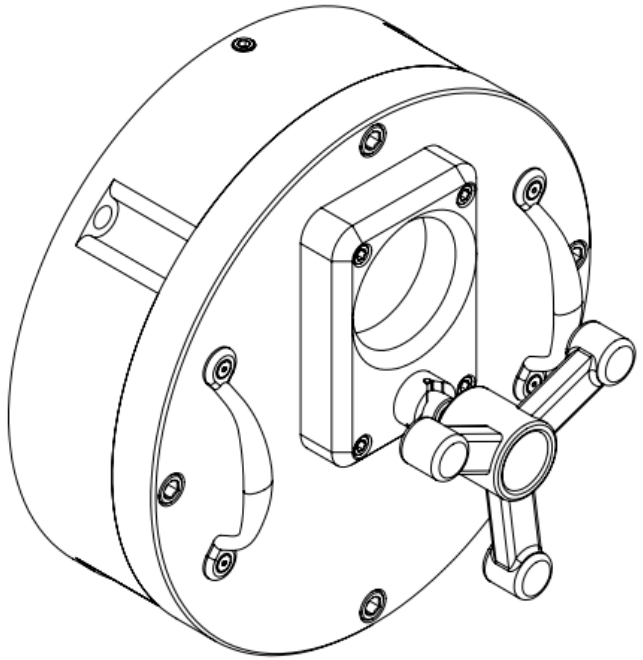


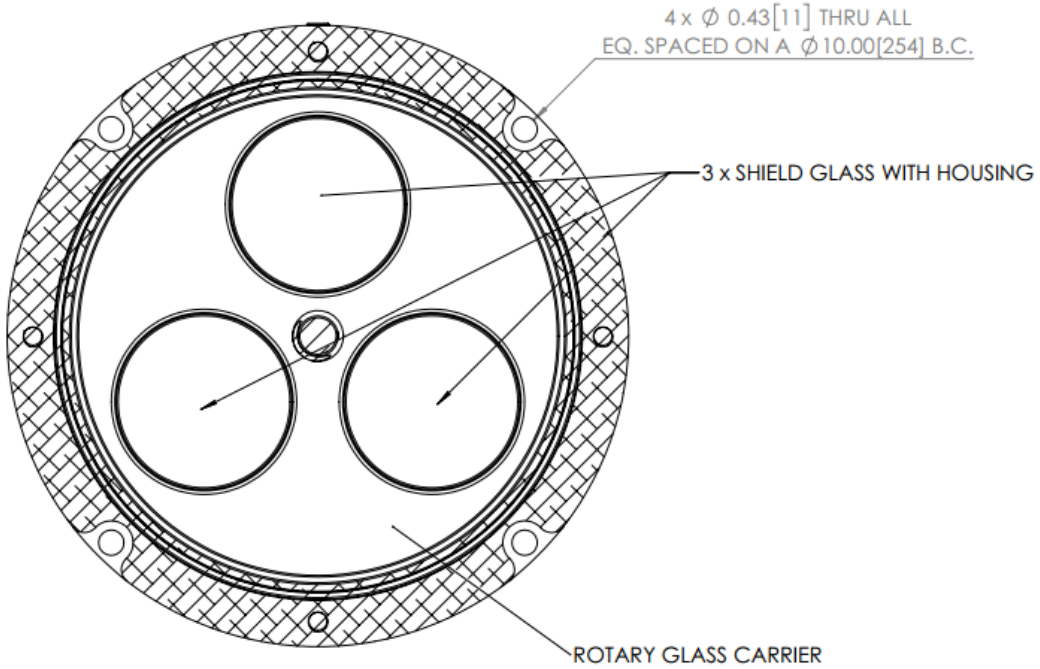
Stroboscope

- A motor drives a ferrofluidic feedthrough
- The feedthrough drives a slotted disc
- At high speeds the disc blocks contamination and you can see through it



Indexable Viewport





- Three viewports in one housing
- Turn the handles to get a clean viewing glass