

Instructions

Circular Aperture Cell Mount 6500S

The 6500S Circular Aperture Cells can be used as either a *semi-permanent cell* (windows, spacer and needle plate are demountable) or as an *interchangeable sealed cell* (windows, spacer and needle plate are sealed together).

A Assembly of Semi-Permanent Cell

1. Lay the back plate on a flat work surface.
2. Place the rear Teflon gasket into the back plate, making sure the two drilled holes are at the 3 and 9 o'clock positions.
3. Place the undrilled window on top of the Teflon gasket.
4. Select an appropriate spacer, making sure it is clean; place it on the window.
5. Put the drilled window on next.
6. Place the second Teflon gasket over the window, make sure the holes are lined up with those of the window. The tip of a hypodermic needle to help align.
7. Set the needle plate in position (this is a snug fit **but do not force**) and put the Teflon O-ring on top of it. For 2nm thick windows, place the compensator ring on top of the first Teflon O-ring.
8. Next, carefully screw down the knurled end cap until snug so as to assure alignment is maintained. Once snug, screw down the end cap tight. *Do not overtighten.*

Excessive pressure may crack the windows. Tighten only enough to effect adequate sealing.

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Semi-permanent

