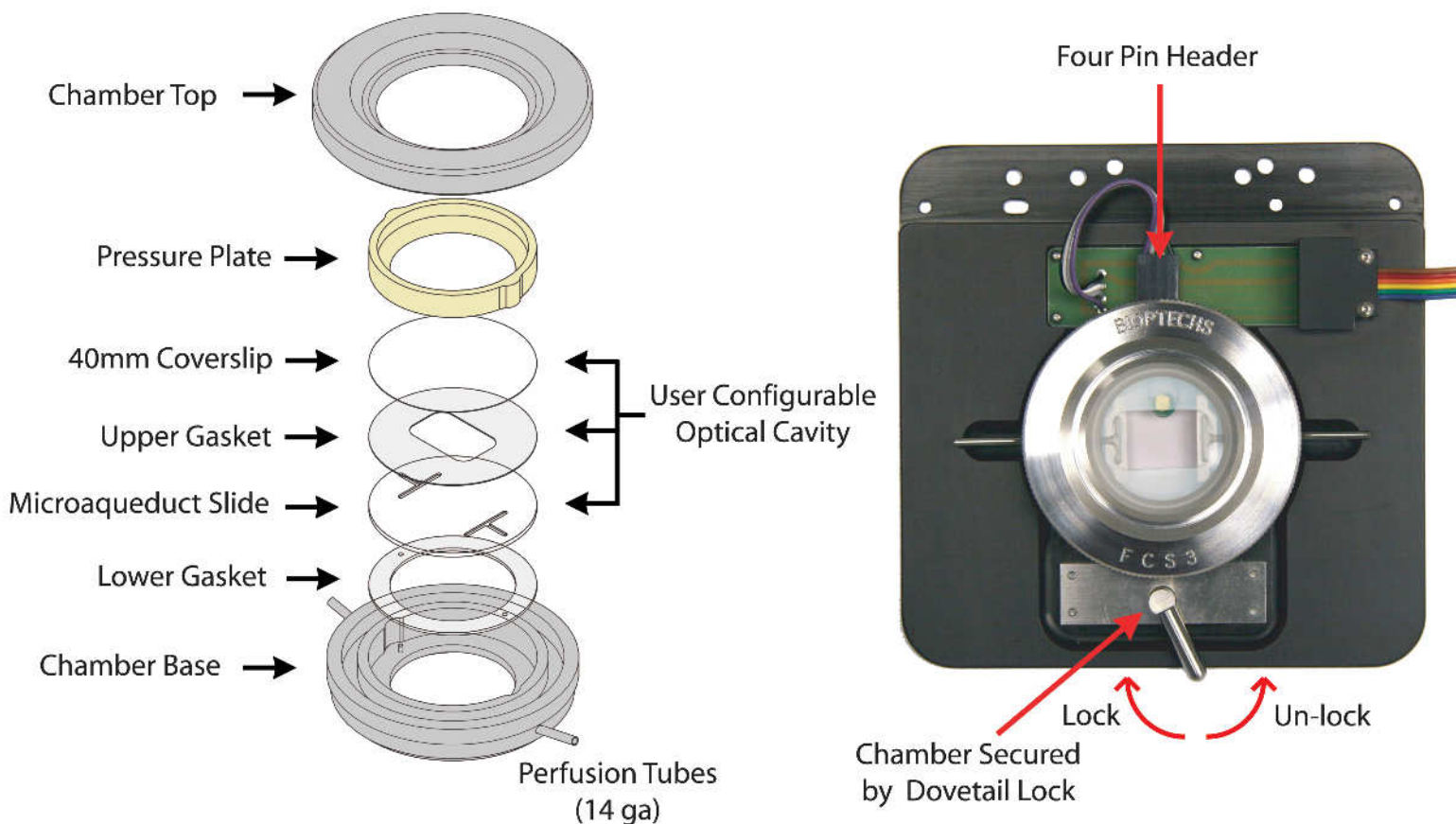


FCS3 Chamber Assembly Instructions

(See Manual for Detailed Instructions)



Loading the Chamber

1. Attach inflow and outflow perfusion lines to the 14ga needles.
2. Hold the dovetailed chamber base in the upright orientation as shown and place the lower gasket (.75mm thick) into the recess while aligning the perfusion clearance holes with the perfusion tubes.
3. Place a microaqueduct slide, groove side up, onto the gasket and oriented such that the perfusion tubes align with the holes in the microaqueduct slide.
4. Select an upper gasket of the appropriate thickness and internal geometry for your experiment on the microaqueduct slide and press in place.
5. Place the 40mm coverslip (cell side down) on top of the gasket.
6. Place the PEEK pressure plate on top of the coverslip (wide edge down) oriented in a manner to engage the two recesses in the perimeter of the base.
7. Screw the knurled chamber top onto the dovetailed chamber base thus compressing the gaskets to the optical components.
8. Plug in the four-hole flat connector attached to the stage adapter into the four-pin header located on the backside of the chamber. The orientation of the connector does not matter, it is non-polarized.
9. Rotate the locking lever fully counter clockwise then place the chamber into the stage adapter with the 4-pin plug facing away from you and the dovetail engaging the adapter plate.
10. Turn the locking lever clockwise to engage and secure the chamber to the stage adapter plate.
11. Plug the rainbow colored wire into the controller (6 Pin mini DIN) and follow the controller instructions.