Mounting Your Fluid Circuit on a Breadboard CapTite™ Components



One-piece fitting (C360-100) One-piece plug (C360-101)



Manual breadboard (LS-600)



Filter holder (uFilter-360)



Interconnects: Tee (C360-203) Cross (C360-204) Y (C360-203Y) Union (C360-202)



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Luer-lock adapter (C360-300)



Manual valve (MV201-360)



Mounting Your Fluid Circuit on a Breadboard Installation Tools and Supplies

- Breadboard Mounting
 - T7 TORX driver for installing breadboard screws
 - ¼" screws to attach valve, reservoirs and chip holders to breadboard
 - ½" screws to attach interconnects to breadboard
 - ¼" standoff, spacer for interconnects
- Capillary
 - PEEK[®] capillary, 360 um OD, 150 um ID
 - PEEK capillary cutter
 - Fused-silica capillary, 360 um OD, 150 um ID
 - Cutting stone to score fused-silica capillary



Zero-Dead Volume Capillary Installation

Cause



CapTite[™] Installation Instructions

- Lay out components on breadboard without fastening anything
 - Where possible, plan to use jogs or bends in the tubing between breadboard mounted components to make tubing length requirement less precise.
- Cut tubing to desired length
 - PEEK tubing use blade or knife to cut
 - Fused-silica tubing use cutting stone to score then break
- Working one leg of your fluid circuit at a time:
 - Connect tubing to fluid circuit leg and finger-tighten.
 - Ensure tubing is seated flush in the component before tightening.
 - Use hex wrench to tighten one-piece fittings ONLY if access finger-tightening is not possible because access is blocked. Use caution not to over-tighten.
 - Gently pull on tubing to ensure it is secure.
 - Use T7 Torx driver to fasten screws to fix component to the breadboard.
 - Use spacers with the interconnects to help level tubing throughout circuit.
- Test for leaks by placing plug in system outlet and pressurizing with manual syringe
- Move on to next component after verifying component is secured and leak free.

