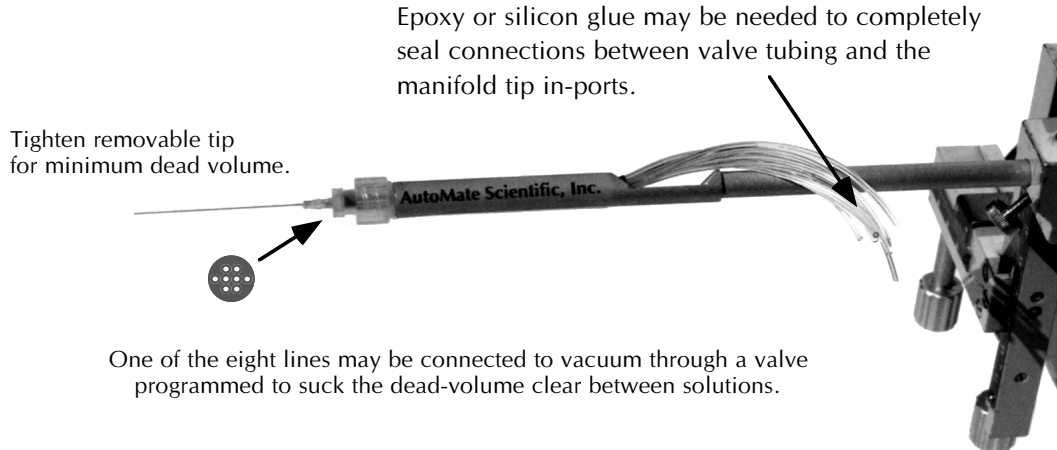


Perfusion Pencil

#04-04-xxx	4-channel Pencil w/xxx μm Tip
#04-08-xxx	8-channel Pencil w/xxx μm Tip
#04-16-xxx	16-channel Pencil w/xxx μm Tip



Chemical Information

The tubing inside the manifold body is polyimide (nylon). The largest connection tubing is vinyl. The Removable tips include a medical grade polypropylene Luer-lock fitting with a fused silica (quartz) needle coated with polyimide. These materials are resistant to most acids, bases and organic solvents. To avoid dust contamination, we recommend pre-rinsing the Multibarrel Manifold and Tip with distilled water. Also, it is good practice to discard the first few microliters of solution before using the device. The Multi-barrel Manifold and Removable Tips are shipped non-sterile. They can be chemically sterilized or autoclaved. However, repeated autoclaving may weaken the adhesive bond between the Luer-lock fitting and the needle.

Replacement Tips:

Part No.	Description
04-360	360 μm Tip
04-250	250 μm Tip
04-100	100 μm Tip

Maintenance

You can expect several years of useful lifetime for your tip if you wash it daily. Use a syringe or vacuum to pull first water, then alcohol three times each through the tip. If the Multibarrel Manifold Tip is filled with pure salt solution, leaving it in the syringe overnight will not usually cause the tip to block. However, if it is used for high viscosity fluids, flushing after each use is recommended.

Cutting

The Removable Tips are shipped with 1.5" (3.8 cm) length polyimide needles. They are intended to be cut to a desired length by rolling a razor blade on them against a hard surface. However, this may leave a small crack or barb on the tip. To get a flat cut, score the coating of the needle with a ceramic cleaving stone or a diamond cutter and pull directly apart, making sure not to pull at an angle. You may notice a larger outer tube enclosing the lower part of our smaller, 100 μm needles. This is simply for added rigidity, and can be cut if needed.



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