

# Replacement Plunger Seals (MD-0050P, MD-0100P, MD-0250P)

The Teflon® seal at the tip of the plunger rod in your Bee Stinger Syringe can be removed and replaced. However, extreme care must be taken during this operation. You cannot damage, bend, deform, scratch or otherwise alter the plunger rod while replacing the seal. You should also keep in mind that replacing the plunger seal may not be sufficient to repair a leaking syringe completely. During the course of normal wear, a thin layer of the seal material may be deposited along the inner wall of the glass syringe barrel. This is unavoidable and will ultimately necessitate replacement of the syringe, since there is no way to remove or resurface the inside of the syringe barrel evenly. According to the instructions on the syringe box, you can prolong the life of the syringe by always operating it while it is filled with fluid and avoid using a dry syringe.

## Procedure for 500 mL and 1.0 mL Syringes

1. There are three “fins” on the Teflon seal. Using needle nose pliers, grasp the fin farthest from the rod (the one at the tip) and pinch it gently.
2. Pull the seal away from the rod using a lateral motion. (Don’t wiggle it from side to side because this may deform the rod.) This will expose the pin at the end of the plunger rod.
3. Place the new plunger tip on a flat surface with the hole facing up.
4. Line up the pin on the end of the plunger rod with the hole and press the rod down into the hole until the new seal is attached securely.

## Procedure for 2.5 mL Syringe

1. The seal on the 2.5 mL syringe is glued to threads on the plunger rod. Replacement of this seal will require that the glue seal be broken when the seal is removed, and that the new seal be glued again.
2. Notice that the “fins” of the seal (2) are covered with a Teflon sheath (1). These form a single part.
3. Use pliers to grip the plunger seal and twist it counterclockwise to break the glue seal. The tip now can be unscrewed.
4. Clean the threads of the steel rod with a small brush and acetone until the remaining glue is removed.
5. To replace the tip, use a semi-permanent glue such as Loctite Removable Threadlocker Blue #242 to fill the threads on the steel rod. Then screw the new seal in place until tight. The fins of the seal will not be visible until the rod is re-inserted into the glass barrel of the syringe.

