

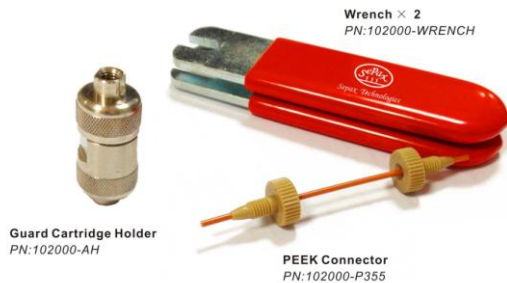


## Sepax Guard Cartridge Kit Manual

### Description

Sepax Guard Cartridge Kit has been developed to provide convenient, cost-effective protection for Sepax high-performance analytical columns. It is installed in front of the column, and physically (filtration) and chemically (adsorption) remove impurities, thus prolonging the life of the column.

The standard configuration for Sepax Guard Cartridge Kit includes one Guard Cartridge Holder, one 1/16" PEEK Connector and two Wrenches. The Guard Cartridge is available for separate purchase.



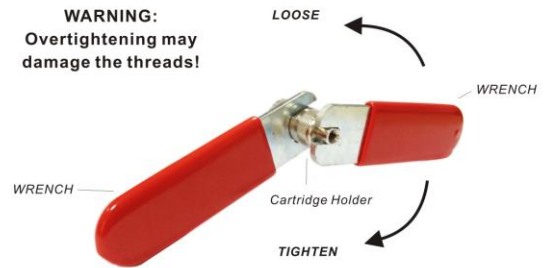
**Figure 1 Standard Guard Cartridge KIT contents**

### Installing or Replacing the Guard Cartridge

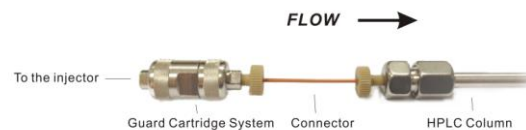
1. Unscrew the two halves of the holder with the wrenches provided in the kit.
2. Install the guard cartridge into the cartridge holder, or replace the old one.
3. Reassemble the holder. Hand-tighten first, and then wrench-tighten mildly. **DO NOT** over-tighten it which may damage the threads.
4. Connect the guard cartridge assembly to the HPLC system as shown in Fig 4. Make the flow direction as marked on the holder.
5. Equilibrate the guard cartridge and analytical column with five column volumes of mobile phase. While equilibrating, check the holder and all connections for leaks.



**Figure 2 Structure of Guard Cartridge System**



**Figure 3 Loose and tighten the cartridge holder with wrenches**



**Figure 4 Connect the guard cartridge assembly to the HPLC system**

### Replace the Guard Cartridge When:

- A) Peak shapes for your samples deteriorate significantly, while the analytical column is performing well with a standard after removing the guard cartridge from the system.
- B) Column backpressure increases significantly when back-flushing will not offer effective help to lower the backpressure.

