

HAMILTON PEEK GUARD COLUMNS

INSTRUCTIONS FOR USE

Hamilton's PEEK Guard Columns prevent particulates and highly adsorptive compounds from reaching the analytical column. The PEEK guard column has a 56 μL bed volume of packing material to remove some of the more highly adsorptive components from the mobile phase. The PEEK guard column is compatible with biologically active samples and its small volume minimizes contribution to chromatographic band broadening. "No tools" fittings are designed for ease-of-use.

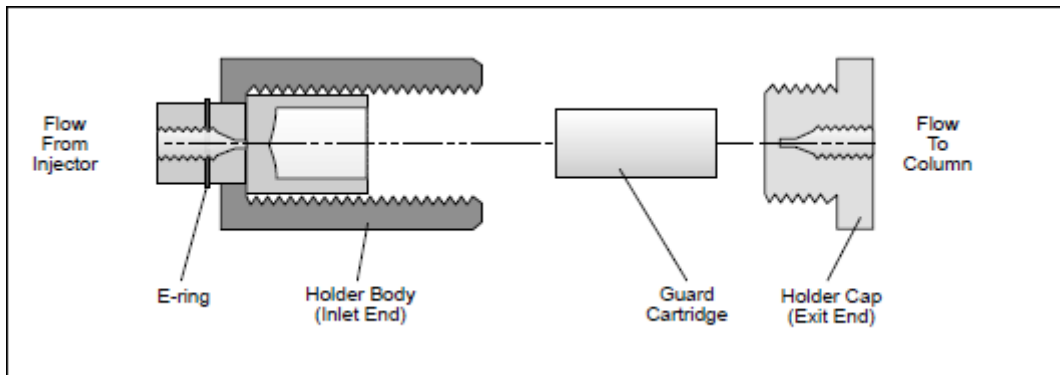
CARTRIDGE AND HOLDER INSTALLATION

Follow these steps to install the PEEK guard column.

Refer to Figure 1.

1. Insert the guard cartridge into the holder body.
2. Screw the holder cap into the holder body, and hand-tighten. Do not use any tools.
3. Connect the holder assembly to the injector, leaving the holder cap (exit) end free. Polymeric nuts and ferrules are recommended for connections.
4. Pump approximately 2 mL of mobile phase through the guard column to properly wet the packing material.
5. Connect the exit end of the holder assembly to the column using 1/16" polymeric tubing and polymeric nuts and ferrules.
6. If the guard column or any fittings leak, shut off the flow, dry out the leaking fitting and re-tighten. If leakage persists, disassemble the holder, inspect components for signs of damage, repair or replace any damaged parts, and reassemble the holder.

Figure 1



USE OF THE PEEK GUARD COLUMN

After installing the guard column, condition it in-line following the directions given for conditioning the HPLC column. The life of a PEEK guard column is dependent upon the cleanliness of the samples and the mobile phase. Extend guard column life by pre-filtering the mobile phase (nylon filter recommended).

PRODUCT SPECIFICATIONS

Guard Column Housing Material:	polyetheretherketone (PEEK) and Delrin®
Pressure Rating:	0-5,000 psig
Chemical Compatibility:	Not recommended for use with concentrated nitric or sulfuric acids, THF or DMSO
Connecting Tubing Material:	PEEK
Size:	1/16" O.D., 0.010" I.D.
Frit Porosity:	2 μm
Guard Cartridge Barrel Material:	PEEK
Barrel Dimensions:	11.2 mm long by 6.3 mm O.D.
Bed Volume:	56 μL
Packing Material:	As labeled
Particle Size:	12-20 μm

WARRANTY STATEMENT

Hamilton Company unconditionally guarantees its products to be free of defects in materials and workmanship. Any product that fails due to such defects will be repaired or replaced at our discretion without cost, provided the device is returned with an explanation. It is the responsibility of the purchaser to determine the suitability of application and material compatibility of the products based on the published specifications of the products.

RETURN OF GOODS

Hamilton Company's return and repair policy is written to protect its employees from potentially hazardous materials (e.g., serum, radioactive materials, carcinogenic chemicals, etc.) or any substance that may cause them partial or permanent disability during the inspection or repair process. In returning product, the customer acknowledges that the product is free from any hazardous materials. Furthermore, the customer assumes responsibility should the returned product be determined to be hazardous.

HAMILTON 
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