

Guard Column Cartridge Installation

1. Insert the unidirectional Restek guard column cartridge (sold separately) into the holder body.



2. Screw the holder cap onto the holder body and tighten fully by hand.



Failure to fully hand tighten the holder cap (about $\frac{1}{8}$ -turn past point of initial resistance) may result in damage to the cartridge.

Guard Column Cartridge Replacement

1. Unscrew the holder cap by hand.
2. Insert a new cartridge.
3. Screw the holder cap onto the holder body and tighten fully by hand.

Questions about this or any other Restek product?
Contact us or your local Restek representative
(www.restek.com/contact-us).

RESTEK



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OPTIMIZE
TECHNOLOGIES

www.optimize-tech.com

Intellectual Property: optimize-tech.com/patents

EXP In-Line Holder



Guard column
cartridges sold
separately.

RESTEK

To help protect your investment and further extend the life of our already-rugged LC columns, Restek offers the patented guard column hardware developed by Optimize Technologies. A Restek LC guard cartridge in an EXP in-line holder is the ultimate in column protection, especially when using online trapping and preconcentration techniques.

- Free-Turn architecture lets you change cartridges by hand without breaking inlet/outlet fluid connections—no tools needed.
- Patented titanium hybrid ferrules can be installed repeatedly without compromising high-pressure seal.
- Connects to any HPLC, UHPLC, injection, or switching valves with $\frac{1}{16}$ " stainless steel tubing; ideal when using online trapping and preconcentration techniques.
- EXP in-line holder requires separate guard column cartridges; available from Restek in 2.1, 3.0, and 4.6 mm.
- Pair with EXP hand-tight fitting for tool-free installation.

Maximum holder pressure: 20,000 psi (1,400 bar)

For a full selection of guard column cartridges, holders, and replacement products, visit www.restek.com

Holder Installation

1. Slide the EXP nut and an EXP ferrule onto the connecting tubing. The PEEK end of the EXP ferrule faces into the 10-32 port of your EXP holder.
2. Push the tubing into the EXP port and keep it bottomed in the port as the nut is tightened by hand, until it is fully engaged in the female port.
3. While still applying pressure to keep the tubing at the bottom of the port, tighten the EXP nut or holder $\frac{1}{2}$ turn with a wrench. Next, repeat on opposite side.

