Restek is pleased to offer the reusable EXP fitting system from Optimize Technologies for the ultimate in easy, reliable LC connections!

The patented hybrid EXP ferrule combines the durability of titanium with the sealing ability of PEEK for a swage that can be reused over and over again. And, when you choose the hand-tight fitting style, the special EXP nut offers an effortless seal up to 8,700+ psi (600+ bar)—no tools needed! For a reliable 20,000+ psi (1,400+ bar) UHPLC connection with either fitting style, simply wrench tighten an extra ¼ to ½ turn.

EXP ferrules should only be used with genuine EXP nuts. When used with an EXP nut, the EXP ferrule provides repeated ZDV (zero dead volume) connections to any 10-32 female threaded port, including Restek LC columns, 6-port injection valves, and more.

For replacement ferrules and additional EXP products, visit www.restek.com/exp

Questions about this or any other Restek product?
Contact us or your local Restek representative (www.restek.com/contact-us).
WARNING: Do not use EXP ferrules with standard nuts. Failure to use EXP fittings according to these instructions may result in unsafe UHPLC connections and/or non-ZDV connections.

1. The EXP ferrule contains a slotted titanium cone on one end and a PEEK sealing cone on the other. When installed correctly, the titanium slotted end faces the EXP nut and the PEEK end faces the female threaded port to which you are connecting to the \( \frac{1}{16} \)" tubing.

2. Slide the EXP nut and EXP ferrule onto the \( \frac{1}{16} \)" tubing.

3. Push the tubing into the female threaded port.

4. If using a hand-tight fitting for HPLC:
   Keep the tubing fully bottomed in the port and tighten the EXP nut by hand. Your connection is now rated to 8,700+ psi (600+ bar) for HPLC use.

5. If using a hand-tight or hex-head fitting for UHPLC:
   Keep the tubing fully bottomed in the port and use a wrench (\( \frac{7}{16} \)" for hand-tight or \( \frac{3}{16} \)" for hex-head fittings) to tighten the EXP nut an additional \( \frac{1}{4} \) – \( \frac{1}{2} \) turn past hand tight for a 20,000+ psi (1,400 bar) connection.

NOTE: The PEEK end of the EXP ferrule will deform from repeated excessive tightening, but the resulting UHPLC connection will still perform well. For best results, tighten a maximum of \( \frac{1}{4} \) – \( \frac{1}{2} \) turn past hand tight.