

EXP and EXP2 Fittings

Reusable fittings for easy, reliable HPLC & UHPLC connections

- Patented ferrule can be installed repeatedly without compromising high-pressure seal.
- Non-swaged ferrules mean vendor-specific tubing is not required.
- Precision design provides zero-dead-volume (ZDV) connection to any 10-32 female port.



EXP and EXP2 Fittings

Reusable fittings for easy, reliable HPLC & UHPLC connections for 10-32 fittings and 1/16" tubing

EXP2 fitting



hand-tight

hex-head



- Compact **EXP2 fitting** fits in tight spaces and allows 20,000+ psi seals without wrenches.
- **EXP hand-tight fitting** style achieves effortless HPLC seals—no tools needed for a 8,700+ psi seal.
- **Both EXP hand-tight and EXP hex-head** styles wrench tighten for reliable UHPLC use up to 20,000+ psi!
- Patented ferrule can be installed repeatedly without compromising high-pressure seal.
- Non-swaged ferrules mean vendor-specific tubing is not required.
- Precision design provides zero-dead-volume (ZDV) connection to any 10-32 female port.

Restek is pleased to offer the reusable EXP and EXP2 fitting systems from Optimize Technologies for the ultimate in easy, reliable LC and UHPLC 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. 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 EXP fitting style, simply wrench tighten an extra 1/4 to 1/2 turn. For the ultimate in convenient, extreme high-pressure connections without wrenches, choose the EXP2 connector. Using the supplied driver, a reusable EXP2 fitting will provide easy, reliable 20,000+ psi connections on any UHPLC column or instrument!

EXP ferrules should only be used with genuine EXP and EXP2 nuts. When used with an EXP or EXP2 nut, the EXP ferrule provides repeated zero-dead-volume (ZDV) connections to any 10-32 female threaded port, including Restek LC columns, six-port injection valves, and more. To accommodate varying port depths, simply hold the tubing fully bottomed in the port and tighten as instructed.

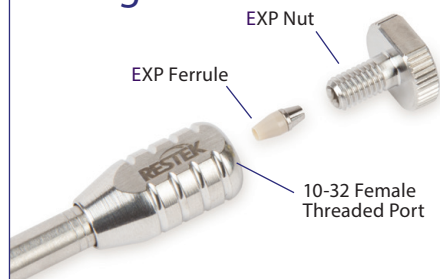
The patented hybrid EXP ferrule makes it all possible

PEEK End: Proven sealing ability beyond 20,000 psi!

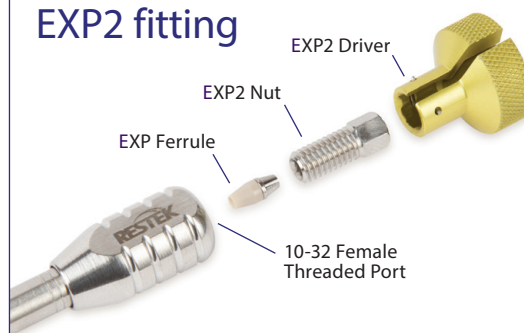
Titanium Slotted End: Lets you release and reuse the swage repeatedly.



EXP hand-tight fitting



EXP2 fitting



EXP Reusable Fittings for HPLC & UHPLC

EXP Hand-Tight Fittings

Description	qty.	cat.#
EXP Hand-Tight Fitting (Nut w/Ferrule)	ea.	25937
EXP Hand-Tight Fitting (Nut w/Ferrule)	10-pk.	25938
EXP Hand-Tight Nut (w/o Ferrule)	ea.	25939



EXP Hex-Head Fittings

Description	qty.	cat.#
EXP Std. Hex-Head Fitting (Nut w/Ferrule)	ea.	25926
EXP Std. Hex-Head Fitting (Nut w/Ferrule)	10-pk.	25927
EXP Short Hex-Head Fitting (Nut w/Ferrule)	ea.	25928
EXP Short Hex-Head Fitting (Nut w/Ferrule)	10-pk.	25929
EXP Long Hex-Head Fitting (Nut w/Ferrule)	ea.	25930
EXP Long Hex-Head Fitting (Nut w/Ferrule)	10-pk.	25931
EXP Std. Hex-Head Nut (w/o Ferrule)	ea.	25932
EXP Short Hex-Head Nut (w/o Ferrule)	ea.	25933
EXP Long Hex-Head Nut (w/o Ferrule)	ea.	25934



EXP Hand-Tight Coupler

Description	qty.	cat.#
EXP Hand-Tight Coupler (2 Nuts, 2 Ferrules, 1/16" x 0.005" ID Tubing)	ea.	25940



EXP2 Reusable Fittings for HPLC & UHPLC

for 10-32 fittings and 1/16" tubing

Description	qty.	cat.#
EXP2 Fitting (2 nuts, 2 ferrules, 1 driver)	2-pk.	25783
EXP2 Fitting (10 nuts, 10 ferrules, 1 driver)	10-pk.	25784
EXP2 Driver (driver only)	ea.	25785



EXP Titanium Hybrid Replacement Ferrules

Description	qty.	cat.#
EXP Titanium Hybrid Ferrule	ea.	25935
EXP Titanium Hybrid Ferrule	10-pk.	25936



WARNING: Do not use EXP ferrules with standard nuts. Failure to use EXP fittings according to the included instructions may result in unsafe UHPLC connections and/or non-ZDV connections.

Hybrid Ferrule U.S. Patent No. 8201854, Wrench U. S. Patent No. D766055, Optimize Technologies. Optimize Technologies EXP Holders are Patent Pending. Other U.S. and Foreign Patents Pending. The Opti- prefix is a registered trademark of Optimize Technologies, Inc.

Order yours today at
www.restek.com/exp

Which fitting do I choose?

While the same EXP titanium hybrid ferrule is for use with all EXP and EXP2 fittings that Restek offers, three factors determine nut choice: pressure, tubing, and space.

At what pressure are you operating?

For standard and intermediate HPLC (up to 600 bar), Restek recommends use of the EXP hand-tight nut. No wrench or driver is required; and you can achieve an 8,700+ psi connection by hand. For UHPLC, choose the EXP2 fitting. Use of the included EXP2 driver allows easy, wrench-free, extreme high-pressure connections.

What tubing are you using?

All EXP and EXP2 fittings offered by Restek accommodate 1/16" stainless steel tubing. If you are using PEEK tubing, you should use either the EXP hand-tight or EXP hex-head fittings. EXP2 fittings are not recommended for use with PEEK tubing.

Are there space limitations?

Consider your space requirements. Tight oven compartments and six-port injection valves might not accommodate the larger hand-tight nut. The EXP2 nut has the slimmest profile. So, while you may not be operating at UHPLC pressure, this compact nut is the best choice in tight spaces. Alternately, three different lengths of EXP hex-head fittings staggered around a six-port injection valve install and remove easily without hurting your knuckles.

Keep several nuts of each variety on hand with an equal amount of ferrules. The simplicity of the design is that the same EXP ferrule works with all nuts and tubing. EXP and EXP2 fittings are truly universal!

Order yours today at www.restek.com/exp



Questions about this or any other Restek product?

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