

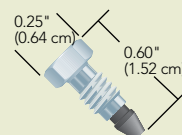
# Upchurch Scientific® One-Piece Fittings for Ultra-High Performance Liquid Chromatography

Upchurch Scientific Very High Pressure (VHP) one-piece fittings offer an increased ability to withstand the demanding requirements of today's Ultra-High Performance Liquid Chromatography (UHPLC) instruments, where system pressures can reach (and sometimes exceed) 25,000 psi (~1,720 bar). This robust line of products effectively handles system stresses due to the elevated pressures and offers a selection of options for different applications.

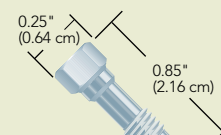
## Reusable Fittings for UHPLC

- ▶ One-piece design assures quick and easy installation with a wrench (IDEX Health & Science recommends the VHP-1000 torque wrench for the VHP-320 and VHP-325)
- ▶ Excellent performance at elevated temperatures (up to 100 °C)
- ▶ VHP-325 is the most universal fitting and can be used with virtually any UHPLC receiving port that accepts 1/16" diameter tubing
- ▶ VHP-320 is designed for use in constricted spaces
- ▶ VHP-920 is designed for use with 1/32" OD tubing in valves and accessories that accept the M4 x 0.7 thread
- ▶ Fittings designed to prevent dead volume
- ▶ Requires low torque (see chart) to fully tighten, which helps eliminate galling and port damage
- ▶ Allows for up to ten repeat assembly cycles with no damage to the tubing and no impact on pressure holding ability or carry-over
- ▶ Materials of construction: 316 Stainless Steel and proprietary PEEK™ polymer blend
- ▶ Patent-pending design

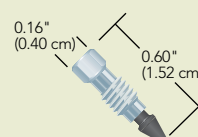
## Reusable VHP Fittings



**VHP-320**  
10-32 VHP Fitting  
For 1/16" OD tubing



**VHP-325**  
10-32 VHP Fitting  
For 1/16" OD tubing



**VHP-920**  
M4 VHP Fitting  
For 1/32" OD tubing

Reusable Very High Pressure (VHP) Fittings			
Part Number	VHP-320	VHP-325	VHP-920
Pressure Rating	25,000 psi (1,720 bar)	25,000 psi (1,720 bar)	25,000 psi (1,720 bar)
Required Torque	8–12 in-lbs (0.90–1.36 N-m)	8–12 in-lbs (0.90–1.36 N-m)	2–4 in-lbs (0.23–0.45 N-m)
For Tubing Size	1/16" OD	1/16" OD	1/32" OD
Head Geometry	1/4" Hex	1/4" Hex	4 mm Hex
Reusable?	Yes	Yes	Yes
Threads	10-32 Coned	10-32 Coned	M4 x 0.7 Coned
Material	Stainless Steel/ PEEK Blend	Stainless Steel/ PEEK Blend	Stainless Steel/ PEEK Blend
Fitting Length	0.60" (1.52 cm)	0.85" (2.16 cm)	0.60" (1.52 cm)

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IDX1480-1-PS-UP/01.2013

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