

HPLC and UHPLC

Viper TQ UHPLC Fittings

Fingertight torque-controlled LC connections for HPLC and UHPLC systems

Benefits of Viper TQ UHPLC Fittings

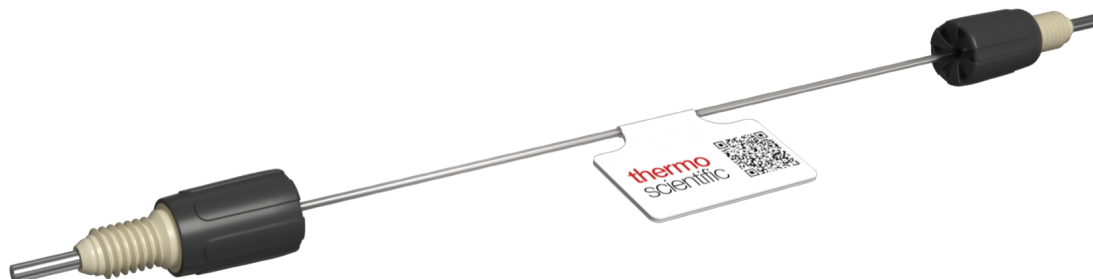
- Simplifies the fluidic connection for all user levels with sensory feedback that signals correct fingertight tightening while requiring up to 40% less force compared to non-torque controlled fingertight fittings
- Consistently provides virtually zero-dead volume and leak-free connections
- Reliable and reproducible connections help minimize carry-over and easy method transfer
- Proven robustness by testing across more than 300 connects and disconnects
- Increases longevity and sustainability of the Thermo Scientific™ Vanquish™ HPLC and UHPLC Systems
- Supports separation columns from 1.0 mm to 7.8 mm inner diameter for versatile applications
- Accommodates exceptional LC-MS performance with dedicated MS connections kits
- Tailored kits for easy installation of application-specific workflows

Reliable connections, in every sense

The Thermo Scientific™ Viper™ TQ UHPLC Fittings are tool-free connections designed for the entire fluidic pathway in LC systems for enhanced chromatographic results. An integrated torque-controlled mechanism provides an audible click and tactile feedback to confirm a secure fluidic connection—helping prevent errors, leaks, and rework from poorly connected fittings.

With virtually zero dead volume, Viper TQ UHPLC Fittings combine usability with high performance. These fittings come standard with Vanquish HPLC and UHPLC Systems and are also compatible with standard port geometries independent of manufacturer. Dedicated capillary kits with Viper TQ UHPLC Fittings for standard LC system configurations and application-specific setups support reliable, reproducible separations and wide application versatility while accommodating high-pressure ranges.

- Available in various lengths: from 100 to 950 mm
- Available in different inner diameters: from 100 µm (0.004 in.) to 250 µm (0.010 in.)
- Available in different materials: stainless steel (SST) or biocompatible MP35N™
- Supports operating pressures up to 1,500 bar (22,000 psi)

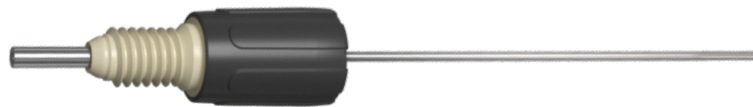


Viper TQ UHPLC Fittings—specifications	
Connection principle	Fingertight, torque-controlled
Sealing principle	Tip sealing, flat bottom
Fitting type	10 to 32 threaded, Polyetherketone (PEK)
Tubing type	1/32 in OD flexible stainless steel (SST) or MP35N
Wetted material	PEK and SST or MP35N
Normal phase compatibility	Yes
Maximum pressure	151 MPa (1,517 bar; 22,000 psi)*
Maximum temperature limit	120°C
Outer diameter	0.79 mm (1/32 in.)
Inner diameter	100 µm (0.004 in.), 130 µm (0.005 in.), 180 µm (0.007 in.), 250 µm (0.010 in.)
Available lengths	Various lengths from 100 mm to 950 mm

*This specification applies to connections with flat bottom ports with fluidic bore inner diameters of up to 0.5 mm (0.2 in.).

Viper TQ UHPLC Fittings—ordering guide

Choose between individual standard or advanced Thermo Scientific™ Viper™ TQ capillaries, or system and application-specific Thermo Scientific™ Viper™ TQ kits, to equip your HPLC and UHPLC systems.

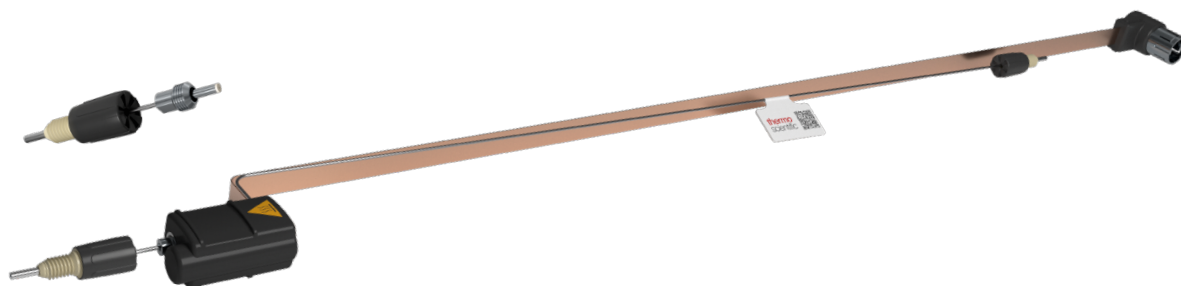


Standard Viper TQ UHPLC Fittings in SST best suited for the Thermo Scientific™ Vanquish™ Core HPLC Systems.

Viper TQ UHPLC Fittings—SST			
Length (mm)	100 µm (0.004 inch) i.d.	130 µm (0.005 in.) i.d.	180 µm (0.007 in.) i.d.
100	6751.1010	6751.1310	6751.1810
150	6751.1015	6751.1315	6751.1815
250	6751.1025	6751.1325	6751.1825
350	6751.1035	6751.1335	6751.1835
450	6751.1045	6751.1345	6751.1845
550	6751.1055	6751.1355	6751.1855
650	6751.1065	6751.1365	6751.1865
750	—	6751.1375	6751.1875
850	—	6751.1385	6751.1885
950	—	6751.1395	6751.1895

Standard Viper TQ UHPLC Fittings in MP35N best suited for the biocompatible Thermo Scientific LC Systems like the Thermo Scientific™ Vanquish™ Flex, Horizon, or Duo UHPLC Systems.

Viper TQ UHPLC Fittings—MP35N			
Length (mm)	100 µm (0.004 in.) i.d.	130 µm (0.005 in.) i.d.	180 µm (0.007 in.) i.d.
100	6752.1010	—	6752.1810
150	6752.1015	—	6752.1815
250	6752.1025	—	6752.1825
300	—	—	6752.1830
350	6752.1035	—	6752.1835
450	6752.1045	—	6752.1845
550	6752.1055	—	6752.1855
650	6752.1065	—	6752.1865
750	6752.1075	6752.1375	6752.1875
950	6752.1095	—	—



Advanced Viper TQ UHPLC Fittings for dedicated purposes like improved detector baseline noise or improved resolution by better eluent temperature conditioning.

For Thermo Scientific Vanquish HPLC and UHPLC Systems	
Viper TQ UHPLC Fittings to optimize Thermo Scientific™ Vanquish™ Diode Array Detector HL performance	
Viper TQ MP35N 0.10 × 250 mm, thermally insulated	6083.0225
Viper TQ MP35N 0.10 × 300 mm, thermally insulated	6083.0230
Viper TQ MP35N 0.13 × 350 mm, thermally insulated	6083.3235
Viper TQ MP35N 0.13 × 500 mm, thermally insulated	6083.3250
Active Pre-heaters TQ for Vanquish Column Compartment H and C	
Active Pre-heater TQ 0.10 × 380 mm MP35N	6732.0700
Active Pre-heater TQ 0.10 × 610 mm MP35N	6732.0720
Active Pre-heater Outlet Capillary Viper TQ MP35N, 3 pcs	6732.0809
Active Pre-heater Outlet Capillary Viper MP35N, 3 pcs	6732.0829
Passive Pre-heaters TQ for Vanquish Column Compartments	
Passive Pre-heater TQ 5 µL 0.25 × 580 mm SST	6732.0750
Passive Pre-heater TQ 3 µL 0.18 × 580 mm SST	6732.0740
Passive Pre-heater TQ 1 µL 0.10 × 580 mm MP35N	6732.0760
Passive Pre-heater TQ 1 µL 0.10 × 730 mm MP35N	6732.0780
Post-column Coolers TQ for Vanquish Column Compartment H	
Post-column Cooler TQ 1 µL, 0.10 × 240 mm MP35N	6732.0540
Post-column Cooler TQ 1 µL, 0.10 × 590 mm MP35N	6732.0560

Viper TQ Capillary Kits for easy set-up of Vanquish HPLC and UHPLC Systems.

Experience the remarkable user-friendliness operating the systems with tool-free and torque-controlled capillaries. For the Vanquish LC Systems, choose between system capillary kits, dispersion-optimized connection kits for LC-MS installations, and application-specific Vanquish HPLC and UHPLC Systems.

For Thermo Scientific Vanquish LC and application-specific Vanquish HPLC and UHPLC Systems	
Viper TQ System Capillary Kits for Vanquish LC Systems	
Viper TQ Capillary Kit for Vanquish Core HPLC Systems	6036.2302A
Viper TQ Capillary Kit for Vanquish Horizon and Flex UHPLC Systems	6036.2303B
Viper TQ Capillary Kit for Vanquish Duo UHPLC Systems	6036.2305A
MS Connection Kit for Vanquish UHPLC Systems	6720.0405A
Viper TQ Capillary Kits for Application-specific Vanquish LC Systems	
Viper TQ Kit for Vanquish Tandem LC systems	6036.2020A
Viper TQ Kit for Vanquish Inverse Gradient LC systems	6036.2010A
Viper TQ Kit for Automated Method Scouting for Vanquish UHPLC Systems	6036.2807A
Extension Kit for Automated Method Scouting for Vanquish LC Systems	6036.0100
Viper TQ Kit for Trap Heart-Cut and Simple Switch 2D-LC for Vanquish UHPLC Systems	6036.2030A

Viper TQ UHPLC Fittings accessories—ordering guide

Accessories help complete the installation successfully and extend the longevity of wear parts.

Accessories	
Viper TQ Accessory Kit incl. Viper TQ Reconditioner, Viper TQ Union, and Viper TQ Wrench*	6036.9010
Viper TQ Reconditioner	6261.5020
Viper TQ Union (Titanium)	6261.5060
Viper TQ Tee Piece (Titanium)	6212.0003
Viper Plug	6040.2303
Viper Guard Connector, biocompatible**	6261.1130
Viper Inline Filter (Titanium), for column protection	6036.1045
Adapter for Viper TQ UHPLC Fittings, 2 pcs, SST	6261.5065A

*Viper TQ Wrench for convenient Viper TQ installation at difficult-to-access places, for example in Vanquish Dual Split Samplers

**Viper Guard Connector for installation of Viper TQ UHPLC Fittings into “Viper only” injection valves (P/N 6036.1500)



Learn more at thermofisher.com/viperTQ

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