



Next Generation UHPLC Connection Technology



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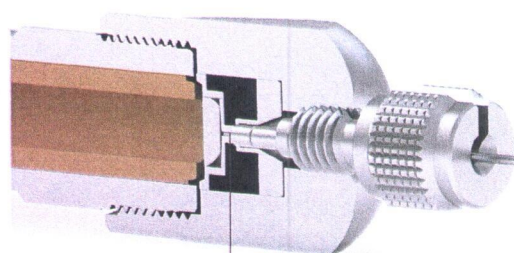
Intelligent Solutions for Life™
Fluidics | Optics | Consumables | Assemblies

Advance Your Fluidic Systems with Finger-Tight MarvelX™ UHPLC Connection Technology from IDEX Health & Science

MarvelX UHPLC Connection Systems have been expertly designed for easy routing throughout your instrument, while providing consistent performance and superior re-usability. Built with convenient, removable stainless steel fittings and changeable, precision-cut flexible tubing, MarvelX can be used up to 200 times! The connection system is compatible with 10-32 coned receiving ports and is absolutely

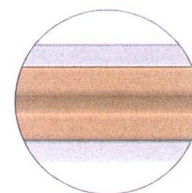
finger-tight — no tool required. MarvelX utilizes our unique next-generation patent-pending technology to auto-adjust to various port depths. This ensures zero dead volume and delivers better chromatography results with sleek, simple, and reliable functionality. In addition to our powerful Stainless Steel version, MarvelX offers a truly biocompatible option in PEEK-Lined Stainless Steel.

MarvelX Features



ZERO DEAD VOLUME

Proprietary sealing technology eliminates extra internal volume.



TRUE BIOCOMPATIBILITY

System versions include Stainless Steel or biocompatible PEEK-Lined Stainless Steel (pictured above) with an ID range of 25 μ m to 508 μ m, for 10-32 coned ports.

FLEXIBLE TUBING

Special tubing blend prevents kinking and allows considerable flexibility to route throughout your instrument. Usable in any application, and can be replaced independent of fittings.

FINGER-
TIGHT TO
19,000 PSI

REUSABLE
UP TO
200x

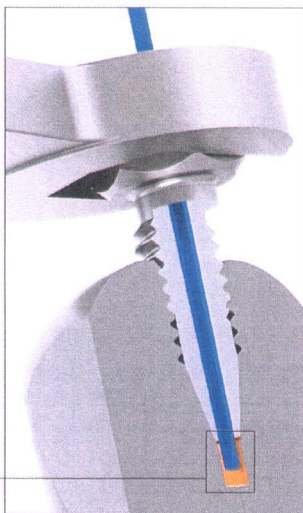
NO
PEAK
TAILING

HIGH
PLATE
EFFICIENCY

MarvelX UHPLC Fittings vs. Conventional Coned Fittings

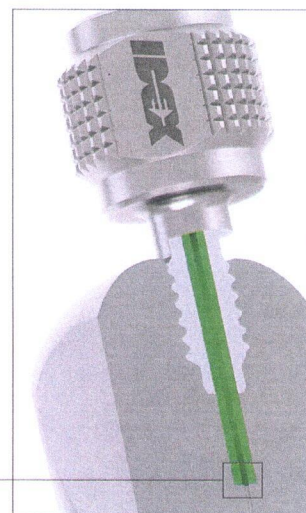
Conventional coned fittings require a ferrule in conjunction with a fitting for proper sealing. They depend on complex techniques, including tools, to improve sealing performance, which significantly increases probability of extra internal volume and poor chromatography results. The excessive force needed for tightening increases wear of expensive components and the likelihood of replacement, adding to overall costs.

EXTRA INTERNAL VOLUME



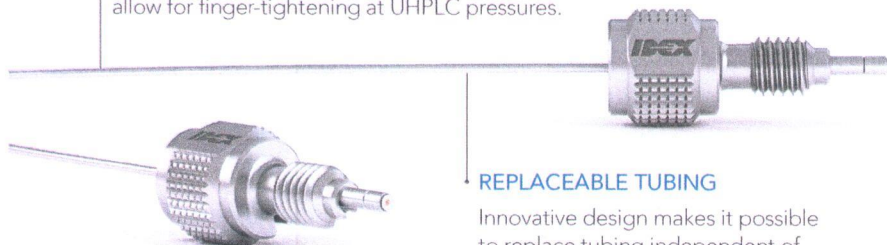
MarvelX UHPLC fittings do not depend on ferrules. They seal at the bottom of the port, without complex techniques, which significantly reduces required torque and enables many more connects and disconnects. Furthermore, they are virtually impossible to over-tighten by hand, limiting wear and increasing product life. An enhanced proprietary tip design also ensures zero dead volume (ZDV) and better chromatography results.

ZERO DEAD VOLUME



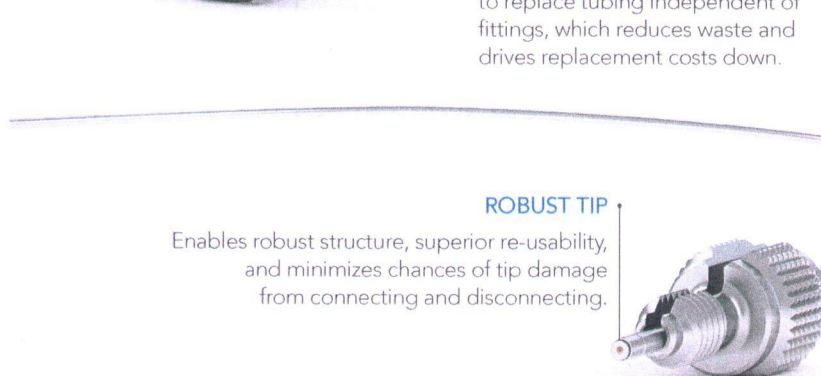
SMALL & ACCESSIBLE

Fittings are small enough to fit in tight spaces, yet allow for finger-tightening at UHPLC pressures.



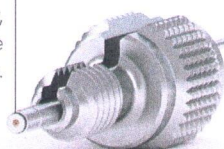
REPLACEABLE TUBING

Innovative design makes it possible to replace tubing independent of fittings, which reduces waste and drives replacement costs down.



ROBUST TIP

Enables robust structure, superior re-usability, and minimizes chances of tip damage from connecting and disconnecting.



REMOVABLE FITTING

Facilitates easy routing of tubing in the instrument, which reduces time and effort during installation and instrument maintenance.



FOR ORDERING
AND TECHNICAL
SUPPORT, VISIT:

[idex-hs.com/
MarvelX](http://idex-hs.com/MarvelX)

FINGER-TIGHT TO UHPLC

MarvelX is truly a finger-tight connection system that only requires 2 in-lbs of installation torque, and seals up to 19,000 psi (~1,310 bar) for routine use. Our combination of optimum nut dimensions and proprietary sealing design makes it virtually impossible to over-tighten by hand.



MarvelX™ Technical Specifications

Length:	070 mm	150 mm	250 mm	350 mm	500 mm	600 mm
PEEK-Lined Stainless Steel Assemblies*						
25 µm ID	UPFP-6025070	UPFP-6025150	UPFP-6025250	UPFP-6025350	UPFP-6025500	UPFP-6025600
50 µm ID	UPFP-6050070	UPFP-6050150	UPFP-6050250	UPFP-6050350	UPFP-6050500	UPFP-6050600
75 µm ID	UPFP-6075070	UPFP-6075150	UPFP-6075250	UPFP-6075350	UPFP-6075500	UPFP-6075600
100 µm ID	UPFP-6100070	UPFP-6100150	UPFP-6100250	UPFP-6100350	UPFP-6100500	UPFP-6100600
150 µm ID	UPFP-6150070	UPFP-6150150	UPFP-6150250	UPFP-6150350	UPFP-6150500	UPFP-6150600
300 µm ID	UPFP-6300070	UPFP-6300150	UPFP-6300250	UPFP-6300350	UPFP-6300500	UPFP-6300600
Stainless Steel Assemblies*						
100 µm ID	UPFS-6100070	UPFS-6100150	UPFS-6100250	UPFS-6100350	UPFS-6100500	UPFS-6100600
125 µm ID	UPFS-6125070	UPFS-6125150	UPFS-6125250	UPFS-6125350	UPFS-6125500	UPFS-6125600
254 µm ID	UPFS-6254070	UPFS-6254150	UPFS-6254250	UPFS-6254350	UPFS-6254500	UPFS-6254600
Replacement Parts*						
Replacement Tubing	To order Replacement Tubing, simply add the letter "T" to the end of any of the part numbers listed above. Example: UPFP-6020570T is the replacement tubing for UPFP-6020570.					
Replacement Fittings	UPN-61032 – Includes 3 replacement fittings.					

*Product availability and lead times may vary depending on the configuration.
Contact Customer Service at +1 800 426 0191 or email CustomerService.hs@idexcorp.com for details.

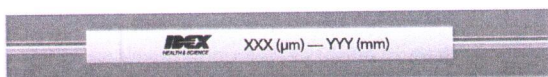
Product Specifications

Pressure Capability	19,000 psi (~1,310 bar) for routine use; up to 23,000 psi max over pressure for PEEK-Lined versions; up to 29,000 psi max over pressure for Stainless Steel versions.
Installation Method	Finger-tight, 1/8 – 1/4 turn after initial resistance (~2 in-lbs)
Tubing Type	1/32" OD flexible 316 Stainless Steel with 1/16" OD rigid tube ends
Fitting Type	10-32 threaded, removable 316 Stainless Steel
Wetted Materials	PEEK-Lined versions: PEEK Stainless Steel versions: PEEK and 316 Stainless Steel
Maximum Use Temperature	120 °C

NOTE: The above performance specifications apply to use with appropriately-designed receiving ports under optimal conditions, using water at up to 120 °C for the testing process. If different conditions are used, the expected pressure threshold will be different.

IMPORTANT NOTES

- MarvelX tubing includes a sleeve that assists in product identification, with ID, length and part number information:



- Minimum recommended bend-radius with MarvelX tubing is 1/4" (~6.35 mm).

REGULATORY COMPLIANCE

As of the date of publication, MarvelX is compliant with current RoHS and REACH regulations.

INSTRUCTIONS FOR TIGHTENING

- Route tubing to the target port.
- Slide fitting onto the tubing end via slot.
- Slowly finger-tighten to first resistance; continue tightening 1/8-turn minimum, to 1/4-turn maximum.
- Learn more at www.idex-hs.com/MarvelX

