



Perfect (U)HPLC connection: **MarvelIXACT™**

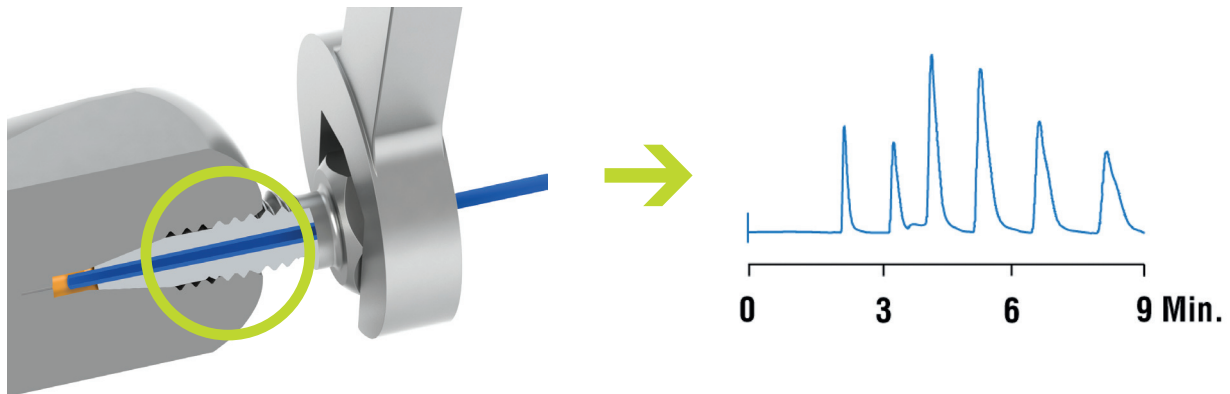
Find the appropriate connector for your column and optimise your chromatographic separation!

For optimum chromatographic results the prevention of leakages and dead volumes is essential. These effects usually arise from non-optimum capillary connections. Geometric differences of the column hardware can lead to different port depths (distance between the tip of the ferrule and the port bottom), especially for different column hardware types.

The common consequence is the formation of a dead volume respectively its enlargement or a lack of reproducibility of routine analyses. The universal (U)HPLC connector **MarvelIXACT™** auto-adjusts to the port depth and seals without a ferrule at the bottom of the port. This provides a dead volume free connection which prevents peak broadening and tailing.

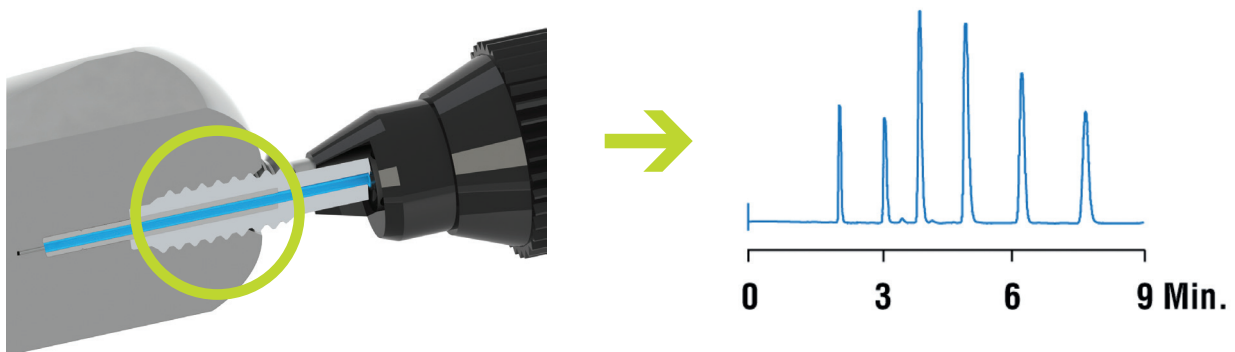
The issue:

Dead volume due to too short capillaries → **peak tailing**



The solution:

A zero dead volume connection **MarvelIXACT™** → **excellent peak symmetry**

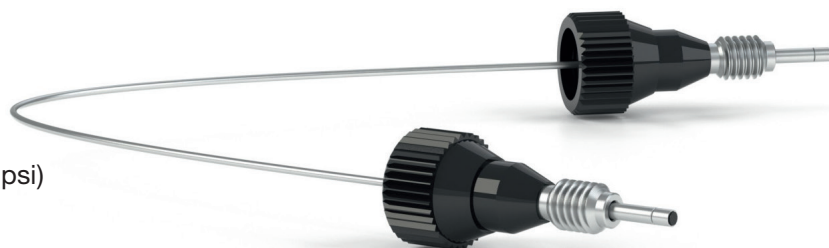


The **MarvelXACT™** connector is provided for the fast and easy column connection in the field of HPLC and UHPLC. It features a special one-piece design and easy handling. It is not possible to overtighten the capillary connection to the column.

The patented torque limited mechanism emits a haptic “click” feedback when it reaches the optimum torque. The **MarvelXACT™** capillary is made of sturdy stainless steel (optional with a PEEK layered capillary) and can be connected to a column over a hundred times.

Features:

- Dead volume free connection
- Pressure limit up to 1,310 bar (19,000 psi)
- Finger-tight (U)HPLC connection
- Optional biocompatible
- Small fitting suitable for every column oven
- Haptic “click” feedback when it reaches the optimum torque
- Flexible 1/32“ OD tubing
- Fast and frequent column change possible
- Different lengths available for your system



Capillary recommendations

We recommend the use of the smallest internal diameter possible for your capillary to receive an optimum separation, which depends on your system. The **MarvelXACT™** connector is available with different capillary internal diameters (stainless steel: 100–254 µm; PEEK layer: 25–100 µm).

Typically used capillaries:

	Internal diameter column [mm]	Internal diameter capillary [µm]	MarvelXACT™ connector (with 250 mm length)*
UHPLC columns	1.0–3.0	up to 75	UPFP-YM7075250 (PEEK layer)
Metal-free columns	2.1–4.6	100	UPFP-YM7100250 (PEEK layer)
HPLC columns	1.0–3.0	100–125	UPFS-YM7100250 UPFS-YM7125250 (stainless steel)
	3.0–4.6	125–254	UPFS-YM7125250 UPFS-YM7254250 (stainless steel)
	8.0–10	254	UPFS-YM7254250 (stainless steel)

*further dimensions available