

Set new standards for precision and reliability in your chromatography

MarvelXACT™ UHPLC Tubing



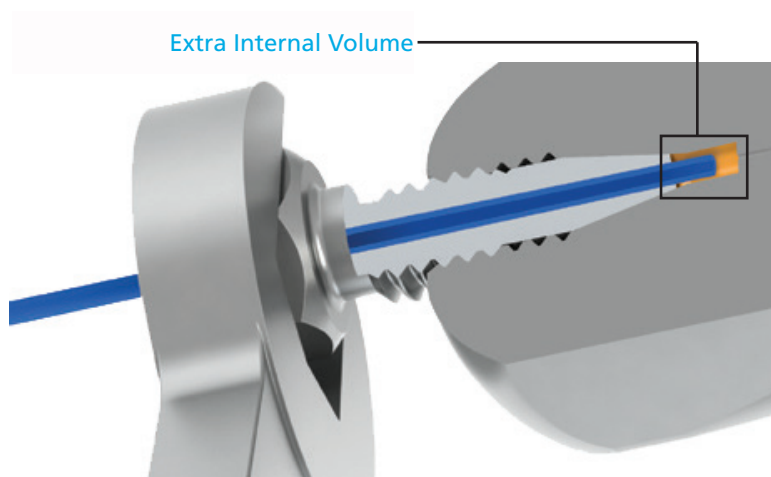
Effortless precision. Maximum performance.

Say goodbye to leaks, dead volumes and time-consuming connections. The MarvelXACT UHPLC connection system was developed to meet the challenges of ultra-high performance liquid chromatography. With this innovative system, you can achieve reproducible results and unrivalled efficiency in your laboratory.



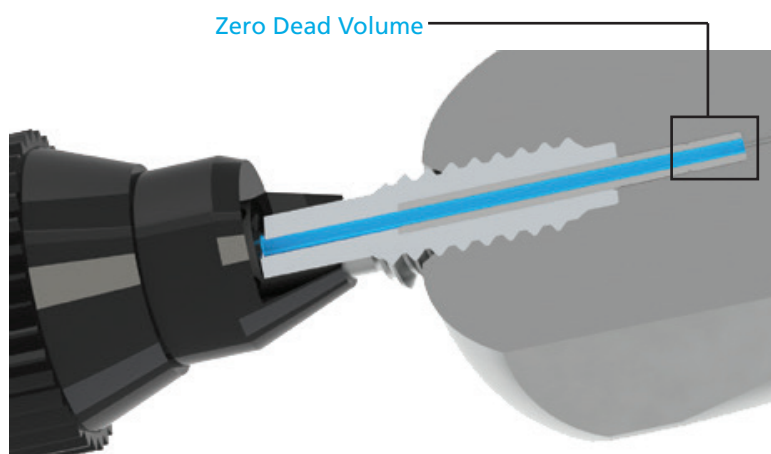
Conventional Fitting

Conventional conical fittings require a ferrule in combination with the fitting itself for proper sealing. They rely on complex techniques and specialised tooling for improved sealing performance. This significantly increases the likelihood of additional internal volume and poor chromatography results. The high tightening pressure required for assembly accelerates wear on costly components and leads to more frequent replacement requirements, significantly increasing overall costs.

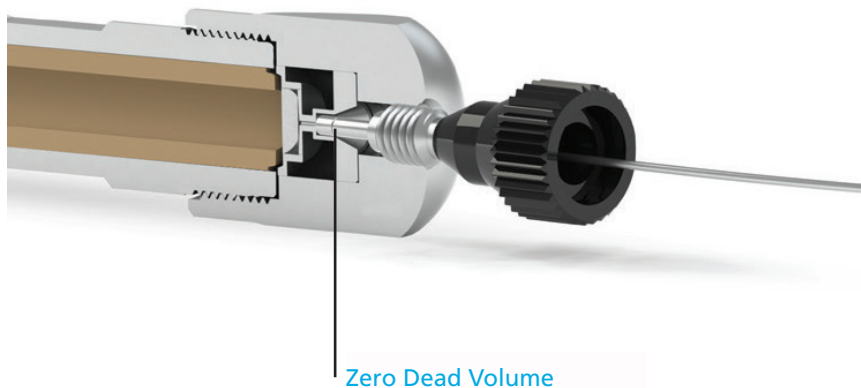


MarvelXACT Fitting

Unlike conventional systems, MarvelXACT fittings do not require a ferrule. Sealing takes place directly at the lower end of the port, which considerably simplifies the assembly process. This not only reduces the required torque, but also significantly increases the number of possible connection and disconnection cycles. MarvelXACT fittings reduce hardware wear and thus extend product life. A further developed, protected tip design also guarantees zero dead volume (ZDV) and optimises chromatography.



The MarvelXACT connection system: precision and reliability for liquid chromatography



The MarvelXACT system is designed to provide reliable and repeatable face sealing on 10-32 tapered ports. An integrated, patented torque limiting mechanism protects against over- or under-tightening. Once the optimum torque is reached, the mechanism provides tactile feedback (audible/palpable „click“), ensuring correct installation without tools.

The integrated MarvelX sealing technology minimises internal dead volume, reducing the risk of carryover, peak tailing and peak widening. The system is made of highly resistant, bio-inert PEEK and stainless steel and enables over 100 reliable connection cycles. The flexible 1/32" OD capillary facilitates routing in the system. In addition, the patented technology automatically adapts to different port depths.

Your advantages at a glance:

- No tools. No guesswork
The revolutionary torque-limiting mechanism ensures a perfectly tightened connection - every time. A clearly perceptible „click“ signals that the optimum pressure point has been reached.
- 100+ reuses guaranteed
The robust connections are designed for over 100 reliable connections without sacrificing performance. This saves time and money.
- Perfect results at the highest pressures
MarvelXACT hoses can withstand pressures of up to 1,300 bar (19,000 psi) and minimise dead volume. The result: sharp peaks and improved resolution.
- Identification sleeve with length and ID
The tubes are available in a three materials (PEEK-lined stainless steel, PEEKsil™, pure stainless steel) and inner diameters to meet the specific requirements of your analysis - also for bioinert applications

Fingertight
to 19,000 psi
(130 MPa /
1300 bar)

1300 bar

Flexible 1/32"
OD for easy
routing be-
hind doors
and into
valves

Flexible

Robust tip for
100+ connec-
tions and dis-
connections

> 100

„Click“ signals
the optimum
pressure point

Click

MarvelXACT UHPLC Tubing

Ordering Information

Inner Dia- meter (µm)	Length (mm)	Volume (µl)	Stainless Steel	PEEK-Lined Stainless	PEEKsil
25	150	0.075	-	980-35048	980-35068
25	250	0.123	-	980-35049	-
25	350	0.172	-	980-35050	980-35069
25	500	0.245	-	980-35051	-
25	600	0.295	-	980-35052	980-35070
50	150	0.295	-	980-35053	980-35071
50	250	0.491	-	980-35054	-
50	350	0.687	-	980-35055	980-35072
50	500	0.982	-	980-35056	-
50	600	1.178	-	980-35057	980-35073
75	150	0.663	-	980-35058	980-35074
75	250	1.104	-	980-35059	-
75	350	1.546	-	980-35060	980-35075
75	500	2.209	-	980-35061	-
75	600	2.651	-	980-35062	980-35076
100	100	0.785	980-35032	-	-
100	150	1.178	980-35033	980-35063	980-35077
100	250	1.963	980-35034	980-35064	-
100	350	2.749	980-35035	980-35065	980-35078
100	500	3.927	980-35036	980-35066	-
100	600	4.712	980-35037	980-35067	980-35079
125	150	1.841	980-35038	-	-
125	250	3.068	980-35039	-	-
125	350	4.295	980-35040	-	-
125	500	6.136	980-35041	-	-
125	600	7.363	980-35042	-	-
254	150	7.6	980-35043	-	-
254	250	12.667	980-35044	-	-
254	350	17.734	980-35045	-	-
254	500	25.335	980-35046	-	-
254	600	30.402	980-35047	-	-

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