

Using a stainless-steel inlet union as an alternative to PEEK

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Keywords

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Goal

Highlight an alternative inlet union for HPLC applications to further increase the robustness of the single quadrupole mass spectrometers

Introduction

The Thermo Scientific™ ISQ™ EC and ISQ™ EM are designed for HPLC and ion chromatography applications. To ensure compatibility with the high ionic strength mobile phases in ion chromatography, the complete flow path is made from PEEK, including the inlet union. PEEK is not as durable a material as metal, so if capillaries are frequently reconnected, the inlet union may get damaged over time and leak. For HPLC applications, the PEEK union may be exchanged for an equivalent union made from stainless steel, available via the vendor and part number below.

Ordering Details

	PEEK	Stainless Steel
Image		
Vendor	Thermo Fisher Scientific	IDEX Health & Science
Part number	1R4035-0600	U-440
Description	Bulkhead Union, PEEK, 10-32 threading	Stainless Steel Bulkhead Union Assembly ZDV .020" thru hole

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