

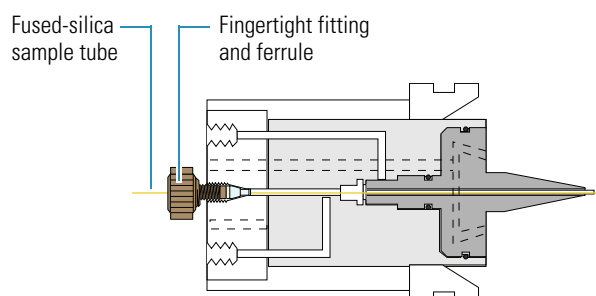
ESI Probe Metal Needle Installation Guide

The Electrospray Metal Needle Adapter Kit (P/N 70001-62217) contains these parts:

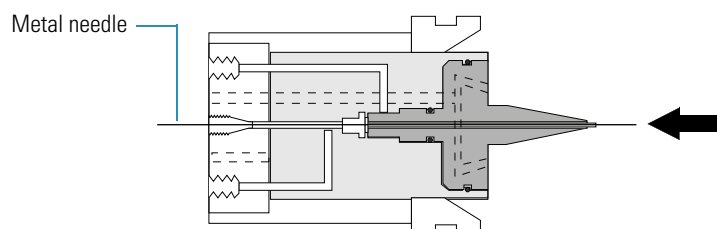
Description	Quantity	Part number
Internal union, 10-32, 0.010 in. thru-hole, natural PEEK	1	00109-00305
Ferrule, 0.012 in. ID, clear	2	00101-18116
External union, 10-32, natural PEEK	1	00101-18206
32 gauge stainless steel needle, 0.009 in. OD, 4.75 in. length	3	00950-00869
Safety insulator (1.375 in. length of 3/8 in. ID PVC tubing)	1	70001-20637
Installation guide	1	70001-97090

❖ To replace the fused-silica sample tube with a 32 gauge, stainless steel needle

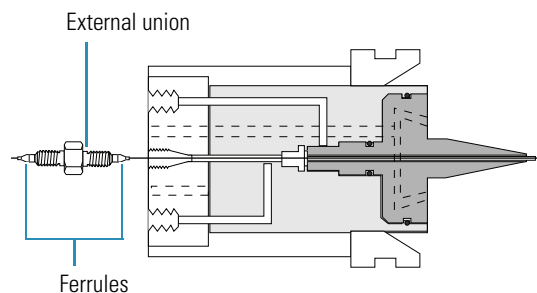
1. Remove the fingertight fitting and ferrule connected to the sample inlet port of the ESI probe, and then pull the fused-silica sample tube out of the probe.



2. Thread the metal needle through the ESI needle that protrudes from the ESI nozzle at the front of the ESI probe until the metal needle protrudes from the sample inlet at the back of the probe.

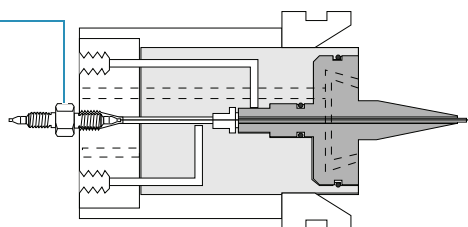


3. Slide the following fittings over the portion of the metal needle that protrudes from sample inlet:
 - a. Slide a ferrule, narrow end first, over the metal needle.
 - b. Slide the external union over the metal needle.
 - c. Slide a ferrule, wide end first, over the metal needle.



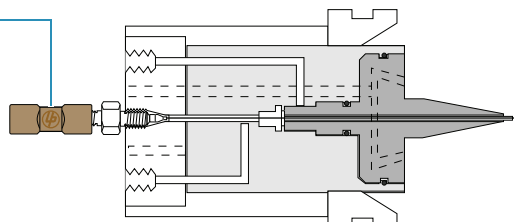
4. Press the metal needle into the external union and ferrule assembly until it is flush with the ferrule that faces away from the probe. Then press a gloved finger against the free ferrule, as you fingertighten the external union to the sample inlet port.

External union
connected to the
sample inlet port



5. Fingertighten the internal union to the external union.

Internal union
connected to
external union



6. Slide the safety insulator over the internal union until up to the middle of the internal union.
7. Using two fingertight fittings and two ferrules, connect one end of a fused-silica sample tube to the external union and the other end to the grounding union held by the ESI flange,

