

# Spark Holland Endurance Autosampler Injection Needle



- 360 OD fused silica:
- ID 100µm: 0.081µl/cm → 2.4µl/30cm
  - ID 150µm: 0.182µl/cm → 5.46µl/30cm

PEEK flangeless ferrule with ss lock ring  
(Upchurch # P-250)

M6 PEEK Nut  
(Upchurch # P-213)

Nut/ferrule suitable for your AS valve

Gray PEEK tubing 400 µm ID x 1/16" OD  
(Upchurch # 1565)

SS ferrule (Upchurch # U-401) use ss union (# U-438)  
to compress ferrule until fused silica is held tight in sleeve  
OR use SS nut and ferrule to connect to AS valve  
OR use superglue (on the side of the flangeless ferrule...)  
OR anything to keep the fused silica from sliding in the gray PEEK

Measure this length from the manufacturers injection needle

Note the motor may have to work harder when using gray PEEK sleeve, use version below instead:

- 360 OD fused silica:
- ID 100µm: 0.081µl/cm → 2.4µl/30cm
  - ID 150µm: 0.182µl/cm → 5.46µl/30cm

PEEK flangeless ferrule with ss lock ring  
(Upchurch # P-250)

M6 PEEK Nut  
(Upchurch # P-213)

Nut/ferrule suitable for your AS valve

Gray PEEK tubing 400 µm ID x 1/16" OD  
(Upchurch # 1565)

Use superglue to keep the fused silica from sliding in the gray PEEK

Measure this length from the manufacturers injection needle