



# Self Tightening Column Nut

## Installation Instructions

### Compatibility

Recommended for use with Short Graphite/Vespel (15%/85%) Ferrules:

Column ID	Ferrule PN
0.1-0.25 mm	5181-3323
0.32 mm	5062-3514
0.45-0.53 mm	5062-3512

Note: maximum recommended temperature for Agilent graphite/vespel ferrules is 350 °F

## Step 1

Place a septum, Self Tightening column nut, and ferrule on the column.

Score the column using a glass scribing tool or ceramic column cutter. Inspect the column end to make certain there are no burrs or jagged edges.



MS Interface  
p/n 5190-5233

Inlet/Detector  
p/n 5190-6194



NOTE: Septa are not required for MS.

## Step 2

Position the column so it extends the appropriate distance above the tip of the ferrule for the desired fitting. (See table below.) Slide the septum up the column to hold the column nut at this position.

See the Agilent J&W Capillary GC Column Installation Guide for reference: [agilent.com/chem/gccolumninstallation](http://agilent.com/chem/gccolumninstallation)



Agilent Inlet	Column distance from tip of ferrule	Agilent Detector	Column distance from tip of ferrule
Split/Splitless	4-6 mm	FID/NPD – Cap optimized	48 mm
Purged Packed	1-2 mm	FID/NPD Adaptable	68 mm
MultiMode	10-12 mm	uECD	70 mm
Cool On-column	Until feel spring tension	FPD	145 mm

(Continued on other side.)

This information is subject to change without notice.

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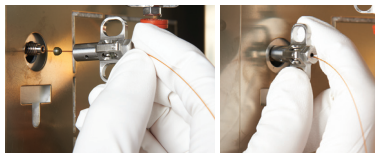
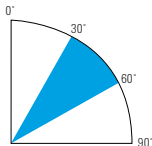
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## Step 3

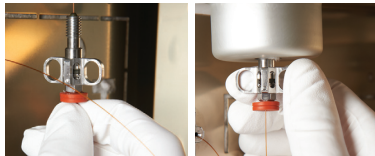
- A.** Install column into corresponding port. Fingertighten nut by turning clockwise until it begins to grip the column (does not move). Column "grip" may be tested by gently moving column back and forth until you feel slight resistance.
- B.** Next, turn the nut clockwise until tight – typically 30-60 degrees.



**NEVER USE A WRENCH TO TIGHTEN THE SELF TIGHTENING NUT.**  
*This may result in damage to the nut or instrument.*



*MSD – narrow end of the ferrule faces towards the nut.*



*Inlet/Detector – narrow end of the ferrule faces away from the nut.*

### For Multimode Inlet (MMI)

- A.** Follow steps 1 and 2 regarding column length and positioning of ferrule and septa. Install column into MMI.
- B.** Place a wrench on the nut attached to the MMI to hold in place. Install column into corresponding port. Fingertighten nut by turning clockwise until it begins to grip the column (does not move). Column "grip" may be tested by gently moving column back and forth until you feel slight resistance.
- C.** Next, tighten the nut an additional 90°.



**NEVER USE A WRENCH TO TIGHTEN THE SELF TIGHTENING NUT.**  
*This may result in damage to the nut or instrument.*



*CAUTION: inside of oven and nut may be hot!*

