

MS-COLUMN FLOW SPLITTER

Installation Instructions (Part No. 123710)

Note: Not suitable for use with 0.1 mm ID columns.

1. Remove the column flow splitter from its packaging and attach it to the splitter support bracket with the nut and washer provided. See Figure 1 for the correct orientation.
2. Select the appropriate set of fused silica restrictors for the capillary column that will be installed in the GC. For 0.25 mm ID columns choose 'Restrictor Set A - 100/250' and for columns 0.32 mm or larger choose 'Restrictor Set B - 320/530.'
3. The restrictor that connects the column flow splitter to the atmospheric detector (FID, ECD, etc.) is labelled 'FID Restrictor.' Remove the restrictor from the packaging and slide a SilTite™ nut and ferrule onto the tubing as shown in Figure 2.
4. Slide the restrictor into the side arm of the splitter tee and finger tighten the nut. With a wrench, gently tighten the nut further until the ferrule just begins to grip the fused silica tubing.
5. Undo the nut and remove the restrictor from the splitter. The SilTite™ ferrule will be attached to the tubing and the excess fused silica can now be cut off the end. Cut the end of the tubing 5 mm from the end of the ferrule as shown in Figure 3.
6. Reattach the restrictor to the column flow splitter and finger tighten the nut. Use a wrench to tighten it another 60°. (Figure 4)
7. Attach the other end of the restrictor to the atmospheric detector in the same way as a capillary column.
8. To connect the MS detector tubing to the column flow splitter, repeat steps 3 to 6 but use the tubing labelled 'MS Restrictor.' (Figure 5)

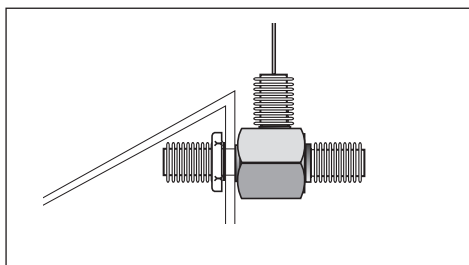


Figure 1. Splitter tee attached to the support bracket

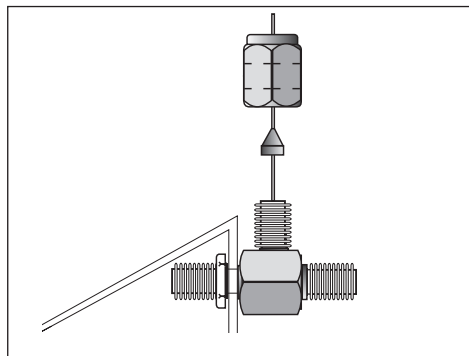


Figure 2. Connecting the atmospheric detector tubing to the column flow splitter

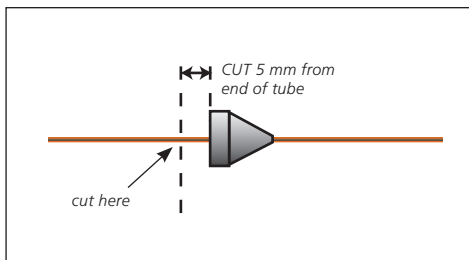


Figure 3. Cutting the tubing

9. Attach the other end of the restrictor to the MS detector in the same way as a capillary column.
10. Install the capillary column in the injection port and turn the carrier gas pressure on.
11. Slide a SilTite™ nut and ferrule on the other end of the capillary column and attach to the splitter by repeating steps 4 to 6 to finish the installation. (Figure 6)

Note: The Glass Lined Tubing (GLT™) inner diameter of the splitter tee is 0.4 mm. Capillary columns of 0.25 mm ID or smaller will be able to enter the actual tee piece. Capillary columns with an ID of 0.32 mm or greater will butt up against the face of the tee piece.

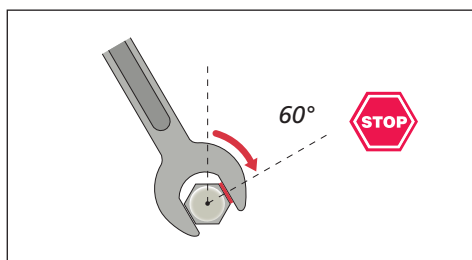


Figure 4. Tightening of the SilTite™ column nut

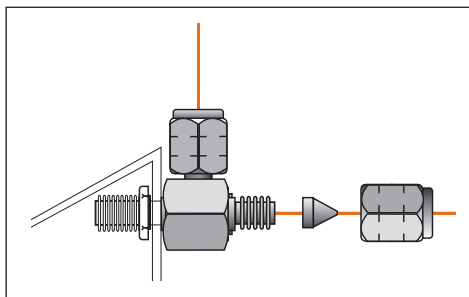


Figure 5. The column flow splitter with the MS and atmospheric restrictors installed

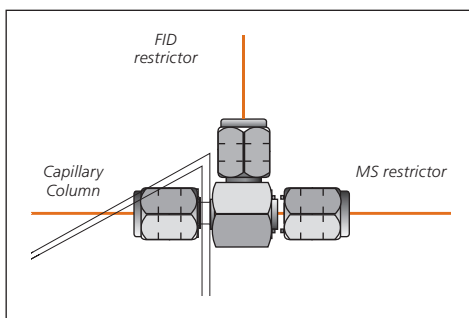


Figure 6. The column flow splitter with all connections

Note: The system has now changed in regards to pressures and flowrates when using the ms-FID splitter. The GCMS system should be changed from vacuum to ambient (atmospheric) pressure. The GCMS software will have a section on pressure control and flow rates. There will be a feature showing if the system is under vacuum or at ambient atmospheric pressure. Ensure this is set to ambient pressure. This will ensure trouble free use of the ms-FID splitter during your analysis.

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