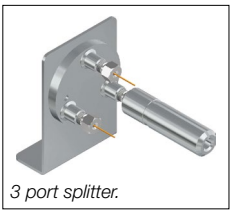
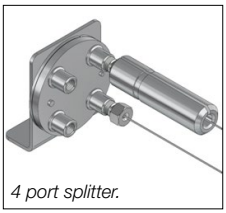
Instructions for SilFlow®
GC capillary column 3- or 4-port splitter

Introduction



3 port splitter.



4 port splitter.

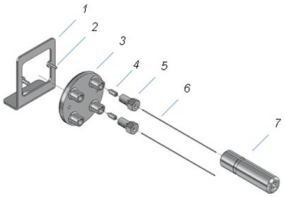
The low dead volume SilFlow® GC capillary column 3- or 4-port splitter system enables you to install and remove a column without using a wrench; giving you flexibility in the GC irrespective of your configuration.

Packing list

	P/N 123720 SilFlow 3 port splitter GC kit (1.1)	P/N 123721 SilFlow 3 port splitter GC kit (0.53)	P/N 123722 SilFlow 3 port splitter GC kit (0.25)	P/N 123730 SilFlow 4 port splitter GC kit (1.1)	P/N 123731 SilFlow 4 port splitter GC kit (0.53)	P/N 123732 SilFlow 4 port splitter GC kit (0.25)
	Qty	Qty	Qty	Qty	Qty	Qty
MultiChannel Device (MCD)	1	1	1	1	1	1
FingerTite tool	1	1	1	1	1	1
Mounting bracket & screw	1	1	1	1	1	1
SilFlow FingerTite nuts	4	4	4	5	5	5
SilFlow FingerTite ferrules (1.1mm)	10	-	-	10	-	-
SilFlow FingerTite ferrules (0.4 mm)	10	10	10	10	10	10
SilFlow FingerTite ferrules (0.5 mm)	10	10	10	10	10	10
SilFlow FingerTite ferrules (0.7 mm)	-	10	-	-	10	-
Blanking pins	2	2	2	2	2	2
SilFlow FingerTite jig (0.4 mm)	1	1	1	1	1	1
SilFlow FingerTite jig (0.5 mm)	1	1	1	1	1	1
SilFlow FingerTite jig (0.7 mm)	-	1	-	-	1	-

Instructions

Column splitter installation



Legend
1. Mounting bracket
2. SilFlow locator pins
3. SilFlow 4-port splitter MCD (3-port MCD not shown)
4. SilFlow FingerTite ferrule
5. SilFlow FingerTite nut
6. Capillary column or blanking pin
7. FingerTite tool

Figure 1. Exploded diagram of the SilFlow 4-port splitter.

1. Attach the mounting bracket (1) to a suitable point in the GC Oven – ensure the locator pins (2) can be easily accessed to install the SilFlow MCD.
2. Locate the SilFlow MCD (3) and identify the appropriate port location suitable for the GC capillary column connection (see Figure 2a and 2b – the port dimensions are located on the back of the MCD).

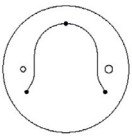


Figure 2a. Schematic of 3 port splitter channel design.

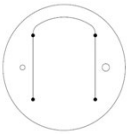
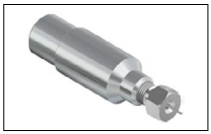


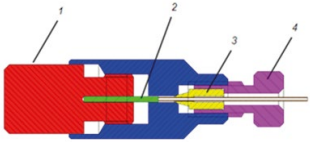
Figure 2b. Schematic of 4 port splitter channel design.

3. Locate the appropriate SilFlow FingerTite ferrule (4), SilFlow FingerTite nut (5), capillary or blanking pin (6) and FingerTite tool (7)

Assembly with FingerTite jig

The FingerTite jig is designed to pre-swage the ferrule for SilFlow devices outside of the oven. Pre-swaging the ferrule enables you to use the connection onto any SilFlow port suitable for the OD of the fused silica capillary and ensures the capillary will not be crushed into the SilFlow channels.





Legend
1. Jig body
2. Fixed pin to create ferrule offset
3. SilFlow FingerTite ferrule
4. SilFlow FingerTite nut

Figure 3. Exploded diagram of the pre-swaging jig.

There are 3 pre-swaging jigs; 0.4, 0.5 and 0.7.

When the ferrule is tightened into the jig using the FingerTite tool, (never use a wrench to tighten SilFlow FingerTite ferrules), the ferrule is fixed on a position of the fused silica capillary at preset offset (see Figure 4).

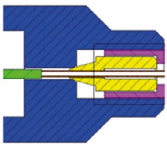


Figure 4. Section view of the first stage of swaging the male end fitting onto the SilFlow FingerTite ferrule.

4. Once all the capillaries are connected, mount the SilFlow MCD on the mounting bracket (if it is not already mounted).

For application configuration suggestions visit www.trajanscimed.com/silflow

Information and support

Visit www.trajanscimed.com or contact techsupport@trajanscimed.com

Specifications are subject to change without notice.