

## Connections | GC Unions

## **Making Joining Matter**

GC Unions are available in two material types: stainless steel and Glass Lined Tubing (GL T™ lined unions).

- Stainless steel unions come in a variety of tube sizes and configurations for example: straight through, reducing, tees, crosses and bulkheads.
- GLT unions are inert and mainly used for connecting fused silica tubing of various internal diameters.

All GC unions are supplied with the appropriate nuts, ferrules and/or sealing rings.

| Union types                 | Straight through unions     Bulkhead unions   | Reducing unions     Reducing bulkhead unions   | 5. Union tees  | 7. Glass lined mini unions   | 8. SilTite mini<br>unions   |
|-----------------------------|---|--|--|--|---|
|                             |   |  | 6. Union cross   |  |   |
| Images                      | 1.  | 3.   | 5.   | 7.   | 8.  |
|                             | Port 2  | Port 1   | Port 1   | Port 1   | Port 1  |
|                             |   |  | Port 2   |  |   |
|                             | 2.  | 4.   | 6.   |  |   |
|                             | Port 1 Port 2   | Port 2   | Port 1   | Port 3   |   |
| Material<br>characteristics | Available in Stainless<br>steel or Glass lined<br>(GLT) Stainless steel.  | Stainless steel.   | Stainless steel.   | Glass Lined (GLT)<br>Stainless Steel.  | Glass Lined (GLT) Stainless Steel.     SilTite® Mini Union utilize the SilTite technology – coupling SilTite ferrules with SilTite nuts.                                |
| Connections suitable        | <ul> <li>Connecting tubing of<br/>the same diameter.</li> <li>Glass lined tubing<br/>(GLT) and plastic<br/>tubing.</li> </ul> | For connecting tubing of different diameters.     Suitable for glass lined tubing (GLT), metal and plastic tubing. | Union tees have<br>the ability to have<br>different size legs<br>for different size<br>tubing. | Connecting fused silica and capillary tubing.  Tubing of different sizes can also be connected. However, mini union ferrules for the tubing that is different than the normal usage need to be purchased separately. | Recommended as the best option for attaching fused silica tubing in the laboratory.     Please note that standard Mini Union nuts cannot be used with SilTite ferrules. |

## **Connections | GC Unions continued**

| Union types        | Straight through unions     Bulkhead unions | Reducing unions     Reducing bulkhead unions | 5. Union tees 6. Union cross   | 7. Glass lined mini unions   | 8. SilTite mini<br>unions  |
|--------------------|---|--|--|--|--|
|                    |   |  |  |  |  |
| Sizes<br>available | • 1/16" to 1/4".                            | • 1/16" to 1/8",<br>1/16" to 1/4".           | GC produces four different Tee configurations:     1) All legs for 1/16"     2) One leg 1/8" and two legs 1/16"     3) One leg 1/4" and two legs 1/16"     4) The union cross is a four port union all set up to connect 1/16" tubing. | 0.4 mm ID (for use with tubing <0.25 mm ID).     0.5 mm ID (for use with tubing 0.32 mm ID).     0.8 mm ID (for usewith tubing 0.45 and 0.53 mm ID). | • 0.4 mm ID (for use with tubing < 0.25 mm ID).     • 0.5 mm ID (for use with tubing 0.32 mm ID).     • 0.8 mm ID (for usewith tubing 0.45 and 0.53 mm ID).     • 1/32". |

For more information about this product visit www.trajanscimed.com or contact techsupport@trajanscimed.com