

Guard Columns and Connectors

Fused Silica Guard Columns



For use as guard columns to protect analytical columns from damaging sample components. Match the deactivation of the tubing with the polarity of the injection solvent.

| Deactivation | Injection Solvents | Max. Temp. |
|-----------------------|------------------------------------|------------|
| Non-Polar | Alkanes Carbon disulfide Ethers | 360 °C |
| Intermediate Polarity | Acetone Methylene chloride Toluene | 360 °C |
| Polar | Acetonitrile Methanol Water | 260 °C |

| Length (m) | I.D. (mm) | Cat. No. |
|---|-----------|----------------|
| Non-Polar Deactivation | | |
| 3 | 0.25 | 25722 |
| 5 | 0.25 | 25742 |
| 3 | 0.32 | 25723 |
| 5 | 0.32 | 25743 |
| Intermediate Polarity Deactivation | | |
| 3 | 0.25 | 25727 |
| 5 | 0.25 | 25747 |
| 3 | 0.32 | 25728 |
| 5 | 0.32 | 25748-U |
| Polar Deactivation | | |
| 5 | 0.32 | 25752-U |

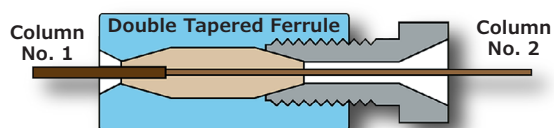
Fused Silica Tubing Inner/Outer Diameters

| Tubing I.D. | Tubing I.D. Range | Tubing O.D. Range |
|-------------|-------------------|-------------------|
| 0.10 mm (1) | 0.094 – 0.106 mm | 0.348 – 0.370 mm |
| 0.10 mm (2) | 0.094 – 0.106 mm | 0.285 – 0.315 mm |
| 0.20 mm | 0.194 – 0.206 mm | 0.345 – 0.375 mm |
| 0.25 mm | 0.244 – 0.256 mm | 0.345 – 0.375 mm |
| 0.32 mm | 0.312 – 0.328 mm | 0.425 – 0.455 mm |
| 0.53 mm | 0.523 – 0.551 mm | 0.650 – 0.690 mm |
| 0.75 mm | 0.742 – 0.758 mm | 0.875 – 0.925 mm |

(1) Columns with non-polar or intermediate polarity stationary phases.

(2) Columns with polar stationary phases.

Capillary Column Butt Connector



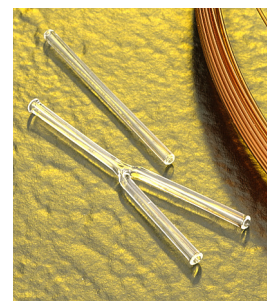
Butt Connection

This device consists of a double-tapered ferrule and a stainless steel compression housing with a threaded cap. Small and light (2.3 cm x 0.6 cm, 4.4 g with ferrule), it provides a gas tight seal with zero dead volume. This unit maintains inertness with no change in column efficiency.

| Description | Cat. No. |
|---|----------------|
| Capillary Column Butt Connector, body only | 23804 |
| Supeltex® M-2B Ferrules, pack of 2, Max. Temp. 350 °C | |
| To connect 0.20/0.25 mm I.D. to 0.20/0.25 mm I.D. | 22453 |
| To connect 0.32 mm I.D. to 0.32 mm I.D. | 22454 |
| To connect 0.53 mm I.D. to 0.53 mm I.D. | 22591 |
| To connect 0.20/0.25 mm I.D. to 0.53 mm I.D. | 22455-U |
| To connect 0.32 mm I.D. to 0.53 mm I.D. | 22586 |

GlasSeal™ Capillary Column Connectors

Use a GlasSeal™ connector to attach a guard column to an analytical column or to repair a column which has broken. Use a GlasSeal™ “Y” connector to split a sample to two columns for confirmatory analysis or to split the output of one column to two detectors. Silanized for an inert inside surface, these can be used with our 0.10–0.53 mm I.D. tubing. To make this an extremely durable connection, use a small drop of polyimide sealing resin (cure at 200 °C, maximum temperature 350 °C).



| Description | Pkg | Cat. No. |
|----------------------------------|-------|--------------|
| Borosilicate Glass Connector | 12 ea | 20479 |
| Fused Silica Connector | 5 ea | 23627 |
| Fused Silica Connector | 25 ea | 23628 |
| Borosilicate Glass “Y” Connector | 1 ea | 20480 |
| Fused Silica “Y” Connector | 1 ea | 23631 |
| Fused Silica “Y” Connector | 3 ea | 23632 |
| Polyimide Sealing Resin | 5 ea | 23817 |