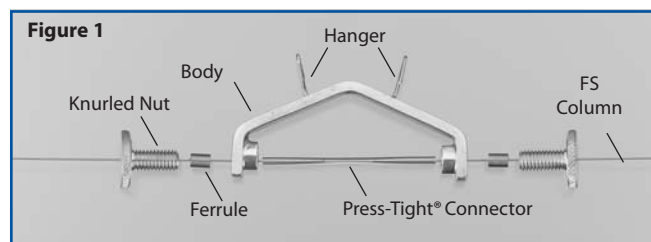


Vu2 Union™ Connectors

(for 0.10/0.15mm ID columns, cat.# 22220; for 0.18/0.28mm ID columns; cat.# 21105; for 0.32mm ID columns, cat.# 21106; for 0.45/0.53mm ID columns, cat.# 21107)

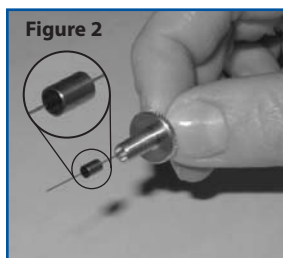
Overview

The Vu2 Union™ connector (Figure 1) is a Press-Tight® connector that incorporates two ferrules, to make secondary seals between the column ends and the glass insert in the connector. Each knurled nut applies independent pressure to each ferrule, to make a leak-tight seal with the column end. The open design allows the user to visually confirm the presence of a seal (brown ring) at the column-glass insert connection.

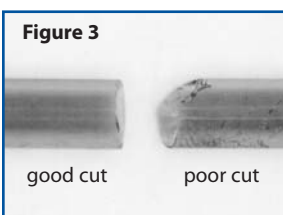


Installation Instructions

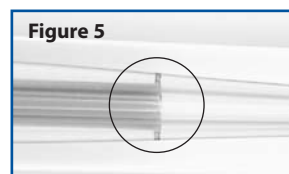
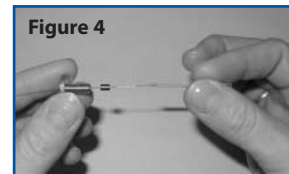
1. Slide a knurled nut and ferrule onto the fused silica column. Install the ferrule so the open end faces toward the end of the column (Figure 2). *Always point the column end down while installing a ferrule, so ferrule fragments do not fall into the column bore.*



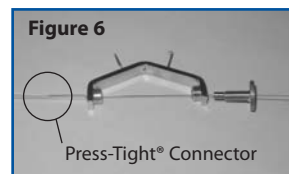
2. Cut the column end, using a ceramic scoring wafer (cat.# 20116) or sapphire scribe (cat.# 20182). *We do not recommend using pointed scoring devices – they tend to produce jagged cuts.* Using a pocket magnifier (cat.# 20124), inspect the end of the tubing. The column edge must be square, or the connection between the column end and the connector will leak (Figure 3).
3. Remove finger oils and lubricate the column end by wiping it with a laboratory wipe wetted with methanol or acetone. This will allow the tubing to slide more easily into the connector and help ensure a good seal.



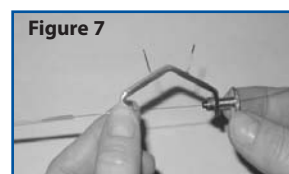
4. Gently press the column end into the Press-Tight® connector until the column end is held firmly in the radial restriction. **Be careful not to press too hard, or the column end will be crushed inside the connector.** A continuous brown ring around the column end, where it contacts the connector, indicates a proper connection (Figure 5).



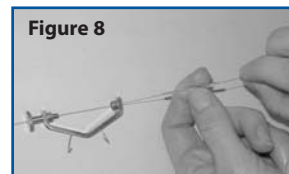
5. Slide the Press-Tight® connector and column into and through the Vu2 Union™ connector body (Figure 6).



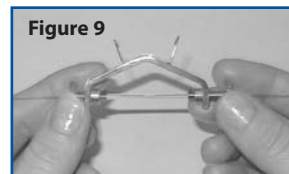
6. Thread the knurled nut and ferrule onto the body of the connector (Figure 7). **Do not tighten at this time.**



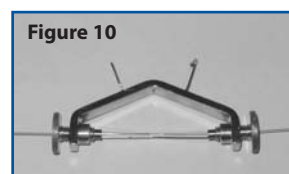
7. Without moving the Press-Tight® Connector back into the Vu2 Union™ body, repeat steps 1 thru 4 for the opposite end of the Press-Tight® connector (Figure 8).



8. Slide the Press-Tight® connector and column into the Vu2 Union™ body until centered, then install the second knurled nut and ferrule (Figure 9).



9. Tighten both knurled nuts evenly until tight. Do not overtighten. The assembled connector should look like the example in Figure 10.



10. Hang the Vu2 Union™ connector from the column cage, as shown in Figure 11.

11. Set the column head pressure, then check the connection for leaks, using a thermal conductivity-type leak detector, such as Restek's electronic leak detector (cat.# 22839). Do not use liquid leak detectors – they can enter the connection if the seal is incomplete, and could damage the column.

12. After confirming the seal is good, bring the oven temperature to 225°C for approximately 5 minutes **but be sure this temperature is not higher than the maximum operating temperature for your column.** This will soften the coating on the column, helping to make the seal permanent.



Figure 11

Universal Press-Tight® Connectors

- Connect guard columns to analytical columns.
- Repair broken columns.
- Connect column outlets to transfer lines.

Description	qty.	cat.#
Universal Press-Tight Connector	5-pk.	20400
Universal Press-Tight Connector	25-pk.	20401
Universal Press-Tight Connector	100-pk.	20402
Knurled Nut	2-pk.	21108



Deactivated, Universal Press-Tight® Connectors

- High-temperature silanization for excellent inertness.
- Ideal for trace analysis of active compounds.
- Ideal for analysis of pesticides, semivolatile pollutants, or clinical/forensic samples.

Description	qty.	cat.#
Deactivated, Universal Press-Tight Connector	5-pk.	20429
Deactivated, Universal Press-Tight Connector	25-pk.	20430
Deactivated, Universal Press-Tight Connector	100-pk.	20431



Graphite Ferrules for Use with Vu2 Union™ Connector

Ferrule ID	Fits Column ID	2-pk.	10-pk.
0.3mm	0.10/0.15mm	22221	22222
0.4mm	0.18/0.28mm	20280	20281
0.5mm	0.32mm	20282	20283
0.8mm	0.45/0.53mm	20284	20285



Restek trademarks: Press-Tight, Restek logo, Vu2 Union
 * Patent pending.

**Call Technical Service at 800-356-1688 or 814-353-1300, ext. 4 (or your Restek representative)
 if you have any questions about this product or any other Restek product.**



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Restek U.S. • 110 Benner Circle • Bellefonte, PA 16823

phone: 814-353-1300 or 800-356-1688 • fax: 814-353-1309 • www.restek.com

Restek France • phone: 33 (0)1 60 78 32 10 • fax: 33 (0)1 60 78 70 90 • e-mail: restek@restekfrance.fr

Restek Ireland • phone: 44 2890 814576 • fax: 44 2890 814576 • e-mail: resteurope@aol.com

Thames Restek U.K. LTD • phone: 44 1494 563377 • fax: 44 1494 564990 • e-mail: sales@thamesrestek.co.uk

Restek GmbH • phone: +49 (0) 6172 2797 0 • fax: +49 (0) 6172 2797 77 • e-mail: info@restekgmbh.de