

Low Pressure Flangeless Tube End Fittings

Cheminert low pressure fittings are ideally suited for flow injection analysis, low pressure liquid chromatography, and stream sampling devices. They may be safely used at pressures up to 500 psi and temperatures to 50°C. Two designs of low pressure tube end fittings are available. *Flangeless* tube end fittings

utilize our new collapsible ferrule, which grips the tubing as the fitting is tightened without significantly reducing the tube ID. *Standard* tube end fittings are retained on polymeric tubing by a flange formed with a Cheminert flanging tool.

Flangeless tube end fittings

1/4-28

Flangeless tube end fittings eliminate the flanging tool required with standard tube end fittings. The nut turns on the tubing as freely as with our flanged fitting, eliminating the possibility of cracking or unscrewing that can occur when plastic tubing is subjected to twisting as fittings are connected.

Cheminert flangeless fittings include our patented* collapsible ferrule design. This innovative design utilizes a one-piece ferrule engineered to collapse as it is tightened. The collapse takes place in a very narrow area, resulting in a very effective seal with virtually no distortion of the tubing ID and no dead volume. The assembly is rated at 500 psi liquid when tightened by hand. Since only the tubing and the ferrule come into contact with the solution, the result is an inert system. Use CTFE ferrules for soft tubing (PTFE, FEP, etc.), but use PEEK ferrules for harder tubing (PEEK, ETFE, polyurethane, etc.)

Cheminert tube end fittings work with any 1/16" or 1/8" OD polymeric tubing, and come in twelve different colors for system color coding.



Flangeless fittings with CTFE ferrules

| | 1/16" OD | | 1/8" OD | |
|---------------|----------|-------|---------|-------|
| (pkg/5) | Prod No | Price | Prod No | Price |
| Black | CFL-1BK | | CFL-2BK | |
| Blue | CFL-1BE | | CFL-2BE | |
| Brown | CFL-1BR | | CFL-2BR | |
| Dark gray | CFL-1DG | | CFL-2DG | |
| Green | CFL-1G | | CFL-2G | |
| Lavender/pink | CFL-1L | | CFL-2L | |
| Natural | CFL-1N | | CFL-2N | |
| Orange | CFL-1E | | CFL-2E | |
| Purple | CFL-1P | | CFL-2P | |
| Red | CFL-1R | | CFL-2R | |
| White | CFL-1W | | CFL-2W | |
| Yellow | CFL-1Y | | CFL-2Y | |

Assorted (pkg/12, one of each color)

with ferrule:

| | | |
|------|-----------|-----------|
| CTFE | CFL-1A | CFL-2A |
| PEEK | CFL-1A-PK | CFL-2A-PK |

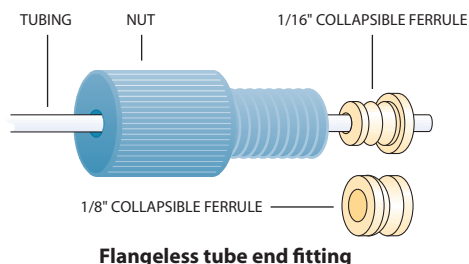
Replacements

| | | |
|------------------------|-----------|-----------|
| PEEK ferrules (pkg/10) | CFL-CB1PK | CFL-CB2PK |
| CTFE ferrules (pkg/10) | CFL-CB1KF | CFL-CB2KF |
| PEEK nuts (pkg/5) | CFL-1PK | CFL-2PK |

Setting tool

| | |
|-----|-----|
| CST | CST |
|-----|-----|

Patent No. 6,575,501



| | |
|---------|-----------|
| 0.25 mm | = .010" |
| 0.50 mm | = .020" |
| 0.75 mm | = .030" |
| 1.0 mm | = .040" |
| 1.5 mm | = .060" |
| 2.0 mm | = .080" |
| 4.6 mm | = .180" |
| 6.0 mm | = .236" |
| 6.4 mm | = .253" |
| 7.0 mm | = .275" |
| 10.0 mm | = .400" |
| 27.0 mm | = 1.08" |
| 1/32" | = 0.8 mm |
| 1/16" | = 1.6 mm |
| 1/8" | = 3.2 mm |
| 1/4" | = 6.4 mm |
| 3/8" | = 9.5 mm |
| 1/2" | = 12.7 mm |