Fluoropolymers are some of the most versatile engineering materials known and, since their discovery in 1938, have been used in nearly every field of modern industry, technology, and science. Their non-stick properties became commonly recognized by the consuming public when E.I. DuPont began marketing his Teflon™ brand product for use on cookware, as a fiber treatment for stain resistance, and in other household applications.

Fluoropolymer material is recognized for its excellent resistance to heat — up to 500°F continuously. Lesser known is its usefulness in extremely cold temperatures. Fluoropolymer will remain reasonably flexible to -100°F.

Because fluoropolymers are almost universally inert to industrial chemicals and solvents, their use for corrosion protection has become one of their largest growth areas. With few exceptions, fluoropolymer tubing can handle virtually any corrosive chemical in use today.

NewAge® Industries stocks a wide assortment of tubing products made of fluoropolymers. We can meet most any need for straight tubing, corrugated (for increased bend radii), convoluted (for easier flush cleaning), or retractable coiled fluoropolymer tubing, along with injection-molded PFA compression fittings.

### Applications

- Adhesives & Hot Glue Delivery
- Automotive
- Cable Bundling
- Chemical Transfer
- Connector Sleeves
- Corrosives
- Cryogenics
- Deionized Water Transfer
- Environmental Sampling
- Flame Retardant
- Covering
- Food & Beverage Processing
- Internal Sheathing
- Laboratory & Medical Uses
- Lighting Covers
- Paint Spray Systems
- Petrochemical Transfer
- Pharmaceutical Processing and Packaging
- Pure Air Systems
- Pure Water & Fluid Systems
- Push-Pull Cable Jacketing
- Robotics
- Sight Glass (FEP)
- Solvent Transfer
- Wire Insulation
- More

Sign up for our eNewsletter at [www.newageindustries.com/extrusions](http://www.newageindustries.com/extrusions)
What's the difference?

PTFE (Polytetrafluoroethylene) is a fluorocarbon-based polymer, supplied in powdered form, which is mixed, preformed, and extruded into a paste, and then finally tubing. PTFE tubing can be used in a wide variety of applications due to its high chemical resistance, high and low temperature capability, resistance to weathering, electrical and thermal insulation, gas and vapor permeability properties and lowest coefficient of friction of any solid material. The tubing is translucent white in color.

FEP (Fluorinated Ethylene Propylene) is pelletized for its hot-melt extrusion process. FEP tubing is known for its gas and vapor permeability properties and excellent UV transmission ratings. While very similar in composition to PTFE, there are a few notable differences. FEP has a lower heat shrink temperature and is clearer and more flexible than PTFE.

PFA (Perfluoroalkoxy) resin, like FEP, belongs to a class of melt-processible fluoroplastics. PFA tubing is also known for its gas and vapor permeability properties and excellent UV transmission ratings. It is similar in composition to FEP but has better heat resistance and a smoother surface. It, too, is clearer and more flexible than PTFE.

Physical Properties**

<table>
<thead>
<tr>
<th></th>
<th>PTFE</th>
<th>FEP</th>
<th>PFA</th>
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<tbody>
<tr>
<td>Hardness, Shore D</td>
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<td>57-60</td>
<td>60</td>
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<td>Tensile Strength, psi</td>
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<td>Elongation at Break, %</td>
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<tr>
<td>Max. Continuous Operating Temp., °F</td>
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<td>400</td>
<td>500</td>
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</table>

**Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.
## Fluoropolymer Tubing

**PTFE, FEP, & PFA Formulations**

**FLUOROPOLYMER TUBING – PTFE, Inch Sizes**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>NOMINAL ID (IN.)</th>
<th>NOMINAL OD (IN.)</th>
<th>REF. WALL (IN.)</th>
<th>STANDARD LENGTH (FT)</th>
<th>WORKING PSI AT 73°F</th>
<th>BEND RADIUS (IN.)</th>
<th>LBS. PER FT.</th>
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<tbody>
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<td>300 0074</td>
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<td>.006</td>
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<td>5/32</td>
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<td>220</td>
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<td>.126</td>
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</tbody>
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†Sold by standard coil length only.
Working pressures are calculated from burst testing using a 4:1 safety factor. Application testing is recommended.
Add length suffix to part number when ordering. Example: 100 ft. of 1/32” I.D. x 1/16” O.D. tubing is part number 300 0074-100.

**NOTE:** Orders for 50 ft. lengths of PTFE tubing may be filled with a maximum of two lengths of product totaling 50 ft.
Orders for 100 ft. lengths of PTFE tubing may be filled with a maximum of three lengths of product totaling 100 ft.

**BOLD** indicates the critical dimension for fittings application.

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**FLUOROPOLYMER TUBING – FEP, Inch Sizes**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>REF. ID (IN.)</th>
<th>OD (IN.)</th>
<th>WALL (IN.)</th>
<th>STANDARD LENGTH (FT)</th>
<th>WORKING PSI AT 100 PSI</th>
<th>BEND RADIUS (IN.)</th>
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<tr>
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<td>3/4</td>
<td>.062</td>
<td>25, 50, 100</td>
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<td>6</td>
<td>.126</td>
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<td>7/8</td>
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<td>5, 10 Straight</td>
<td>132</td>
<td>12</td>
<td>.149</td>
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<tr>
<td>310 2187</td>
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<td>7/8</td>
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<tr>
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<td>1.100</td>
<td>.050</td>
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<td>75</td>
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<td>.154</td>
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<td>1 1/8</td>
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<td>5, 10 Straight</td>
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<td>24</td>
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<td>.286</td>
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*Limited stock item; lead times and minimums may apply — call for details.
†Sold by standard coil length only.
Working pressures are calculated from burst testing using a 3:1 safety factor. Application testing is recommended.
Add length suffix to part number when ordering. Example: 50 ft. of 1/16” I.D. x 1/8” O.D. tubing is part number 310 0090-50.

All FEP and PFA lengths are supplied in single-section packages.

**BOLD** indicates the critical dimension for fittings application.

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continued on next page
Fluoropolymer Tubing

**PTFE, FEP, & PFA Formulations**

**FLUOROPOLYMER TUBING – PFA, Inch Sizes**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>REF. ID (IN.)</th>
<th>OD (IN.)</th>
<th>WALL (IN.)</th>
<th>STANDARD LENGTH (FT)</th>
<th>WORKING PSI AT 73°F</th>
<th>BEND RADIUS (IN.)</th>
<th>LBS. PER FT.</th>
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<tbody>
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<td>1/8</td>
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<td>50, 100</td>
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<td>.030</td>
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<td>9/16</td>
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<td>25, 100</td>
<td>75</td>
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<td>25, 50, 100</td>
<td>155</td>
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</table>

†Sold by standard coil length only.
Working pressures are calculated from burst testing using a 3:1 safety factor. Application testing is recommended.
Add length suffix to part number when ordering. Example: 25 ft. of 5/8” I.D. x 3/4” O.D. tubing is part number 320 1716-25.

All FEP and PFA lengths are supplied in single-section packages.

**FLUOROPOLYMER TUBING – PTFE, Metric Sizes**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>NOMINAL ID (MM)</th>
<th>NOMINAL OD (MM)</th>
<th>REF. WALL (MM)</th>
<th>STANDARD LENGTH (FT)</th>
<th>WORKING PSI AT 73°F</th>
<th>BEND RADIUS (MM)</th>
<th>LBS. PER FT.</th>
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<tbody>
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<td>8</td>
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<td>50, 100</td>
<td>130</td>
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<td>10</td>
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<td>25, 50, 100</td>
<td>100</td>
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<td>50, 100</td>
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<td>50, 100</td>
<td>80</td>
<td>89</td>
<td>0.089</td>
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*Limited stock item; lead times and minimums may apply — call for details.
†Sold by standard coil length only.
Working pressures are calculated from burst testing using a 4:1 safety factor. Application testing is recommended.
Add length suffix to part number when ordering. Example: 50 ft. of 2mm I.D. x 4mm O.D. tubing is part number 301 0175-50.

**FLUOROPOLYMER TUBING – FEP, Metric Sizes**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>REF. ID (MM)</th>
<th>OD (MM)</th>
<th>WALL (MM)</th>
<th>STANDARD LENGTH (FT)</th>
<th>WORKING PSI AT 73°F</th>
<th>BEND RADIUS (MM)</th>
<th>LBS. PER FT.</th>
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<td>10</td>
<td>1</td>
<td>25, 50, 100</td>
<td>186</td>
<td>70</td>
<td>0.041</td>
</tr>
<tr>
<td>311 0877</td>
<td>10</td>
<td>12</td>
<td>1</td>
<td>50, 100</td>
<td>155</td>
<td>102</td>
<td>0.049</td>
</tr>
<tr>
<td>311 1052</td>
<td>12</td>
<td>14</td>
<td>1</td>
<td>50, 100</td>
<td>119</td>
<td>305</td>
<td>0.059</td>
</tr>
</tbody>
</table>

†Sold by standard coil length only.
Working pressures are calculated from burst testing using a 3:1 safety factor. Application testing is recommended.
Add length suffix to part number when ordering. Example: 50 ft. of 2mm I.D. x 4mm O.D. tubing is part number 311 0177-50.

All FEP and PFA lengths are supplied in single-section packages.

BOLD indicates the critical dimension for fittings application.

**FLUOROPOLYMER TUBING – PFA, Metric Sizes**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>REF. ID (MM)</th>
<th>OD (MM)</th>
<th>WALL (MM)</th>
<th>STANDARD LENGTH (FT)</th>
<th>WORKING PSI AT 73°F</th>
<th>BEND RADIUS (MM)</th>
<th>LBS. PER FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>321 0354</td>
<td>4</td>
<td>6</td>
<td>1</td>
<td>50, 100</td>
<td>312</td>
<td>44</td>
<td>0.023</td>
</tr>
<tr>
<td>321 0529</td>
<td>6</td>
<td>8</td>
<td>1</td>
<td>50, 100</td>
<td>234</td>
<td>64</td>
<td>0.032</td>
</tr>
<tr>
<td>321 0704</td>
<td>8</td>
<td>10</td>
<td>1</td>
<td>25, 50, 100</td>
<td>187</td>
<td>70</td>
<td>0.041</td>
</tr>
<tr>
<td>321 0879</td>
<td>10</td>
<td>12</td>
<td>1</td>
<td>50, 100</td>
<td>156</td>
<td>102</td>
<td>0.049</td>
</tr>
</tbody>
</table>

†Sold by standard coil length only.
Working pressures are calculated from burst testing using a 3:1 safety factor. Application testing is recommended.
Add length suffix to part number when ordering. Example: 100 ft. of 6mm I.D. x 8mm O.D. tubing is part number 321 0529-100.

All FEP and PFA lengths are supplied in single-section packages.

BOLD indicates the critical dimension for fittings application.
Coiled FEP Tubing

- Made of chemically inert clear FEP
- Manufactured from FDA compliant materials
- Heat set into a retractable coil; excellent recoil memory
- Offers all the chemical and electrical insulation properties of standard FEP fluoropolymer tubing
- Allows flexibility to otherwise semi-rigid fluoropolymer tubing

Notes

Almost totally inert, COILTEF can be used with all industrial solvents, chemicals, and corrosive materials even at elevated temperatures. It does, however, react with fluorine, molten sodium hydroxide, and molten alkali metals.

Fluoropolymer’s non-stick property allows transport of viscous, sticky material without line clogging. It also offers outstanding aging resistance.

COILTEF is manufactured through a fabrication process which heat sets the coils. The coils should remain stable up to 200°F. At higher temperatures the coils will begin to relax and lose their set. If the application involves elevated temperatures, in-house testing is recommended.

COILTEF may be steam or chemically sterilized in-line with any industrial cleaner, solvent, or sterilizing method. Care should be taken with steam sterilization to prevent coil relaxation. Testing is recommended.

COILTEF can be manufactured from .085” to 1/2” tubing I.D. The coil diameter can be produced from 3/4” O.D. to 4” O.D.

PFA-formulated COILTEF is available by special order.

Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness, Shore D</td>
<td>55-60</td>
</tr>
<tr>
<td>Tensile Strength, psi</td>
<td>2800-5000</td>
</tr>
<tr>
<td>Elongation at Break, %</td>
<td>250-330</td>
</tr>
<tr>
<td>Brittle Temperature, °F</td>
<td>-450</td>
</tr>
<tr>
<td>Min. Operating Temp. for Tubing, °F††</td>
<td>-100</td>
</tr>
<tr>
<td>Max. Operating Temp. for Tubing, °F††</td>
<td>200</td>
</tr>
</tbody>
</table>

**Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

††Temperatures are for standard extruded (non-coiled) tubing. See “Notes” for additional information.

Custom Services

■ Cut   ■ Size   ■ And More

Call for more information

800-506-3924

Meet Some of NewAge Industries’ Owners

Through an Employee Stock Ownership Plan (ESOP), we’re part owners in the company, and that makes your satisfaction an investment in our future.

Chanthou Voeurn
Plastic Manufacturing/Owner
9 years

Lori Stiverson
Materials Manager/Owner
3 years

Brian Katchur
Engineering Process Manager/Owner / 17 years

www.newageindustries.com
Convoluted PTFE Tubing

- Translucent PTFE tubing offers excellent chemical and electrical properties
- Available from stock with or without a stainless steel wire encircling the O.D.
- Wire coil provides increased pressure capability and aids in electrical grounding
- Easily flexed — spiral construction allows far greater flexibility than straight wall tubing
- Spiral construction also allows for easier cleaning
- Made from FDA compliant materials

Notes

CONTEF's helical construction aids in self cleaning when flushed with standard cleaning fluids.

The cuffs (straight ends) are made to accept standard barbed fittings. Hose assemblies made to your specifications are available.

PTFE's color will vary naturally from lot to lot, but the quality and physical properties do not change.

FEP CONTEF for longer continuous lengths is available through custom order.

CONTEF Without Wire:
Vacuum Service: 27 in./Hg at 72°F.
Convolutions are molded into the tubing and will not cold flow into a straight wall under normal conditions.

CONTEF With Wire:
Vacuum Service: 27 in./Hg at 72°F.
For high vacuum applications, CONTEF can be produced with wire on the I.D. — call for details.

*See Terms and Conditions Agreement for Limitations

Physical Properties**

- Hardness, Shore D: 50-65
- Tensile Strength at Break, psi: 3500
- Elongation at Break, %: 200-400
- Embrittlement Temperature, °F: -450
- Min. Operating Temp. for Tubing, °F††: -100
- Max. Operating Temp. for Tubing, °F††: 500

**Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.
††Temperatures are for standard extruded (non-convoluted) tubing.

Custom Services
- Cut
- Overbraid
- Size
- And More

Call for more information
800-506-3924

Recommended Fittings & Clamps
- Thermobarb® barbed fittings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

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Did you know . . . ?
We haven’t had a product liability claim since we began manufacturing tubing over 20 years ago.

Chris Yean
Silicone Manufacturing/Owner
1 year

Kimly Ourn
Silicone Molding Supervisor/Owner
7 years

Mike Lafferty
Warehouse/Owner
1 year

ESOP Employee Owned For Your Benefit
### CONTEF Without Wire

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>A ID (IN.)</th>
<th>B NOM. (IN.)</th>
<th>C NOM. (IN.)</th>
<th>D REF. (IN.)</th>
<th>F NOM. (IN.)</th>
<th>BEND RADIUS (IN.)</th>
<th>MAX LENGTH (FT.)</th>
<th>WORKING PSI AT 72°F</th>
<th>BURST PSI AT 72°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>350 0070</td>
<td>1/4</td>
<td>3/4</td>
<td>.015</td>
<td>.320</td>
<td>.181</td>
<td>1/2</td>
<td>125</td>
<td>45</td>
<td>180</td>
</tr>
<tr>
<td>350 0147</td>
<td>5/16</td>
<td>1</td>
<td>.020</td>
<td>.414</td>
<td>.273</td>
<td>3/4</td>
<td>125</td>
<td>48</td>
<td>192</td>
</tr>
<tr>
<td>350 0224</td>
<td>3/8</td>
<td>1</td>
<td>.020</td>
<td>.450</td>
<td>.303</td>
<td>1-3/4</td>
<td>125</td>
<td>40</td>
<td>160</td>
</tr>
<tr>
<td>350 0301</td>
<td>1/2</td>
<td>1</td>
<td>.020</td>
<td>.590</td>
<td>.425</td>
<td>1-1/4</td>
<td>100</td>
<td>30</td>
<td>120</td>
</tr>
<tr>
<td>350 0378</td>
<td>5/8</td>
<td>1-1/4</td>
<td>.023</td>
<td>.660</td>
<td>.485</td>
<td>1-1/2</td>
<td>75</td>
<td>30</td>
<td>120</td>
</tr>
<tr>
<td>350 0455</td>
<td>3/4</td>
<td>1-1/2</td>
<td>.025</td>
<td>.780</td>
<td>.608</td>
<td>1-3/4</td>
<td>75</td>
<td>25</td>
<td>100</td>
</tr>
<tr>
<td>350 0532</td>
<td>1</td>
<td>2</td>
<td>.030</td>
<td>1.100</td>
<td>.849</td>
<td>2-2/3</td>
<td>50</td>
<td>22</td>
<td>90</td>
</tr>
<tr>
<td>350 0609</td>
<td>1-1/2</td>
<td>2-1/2</td>
<td>.035</td>
<td>1.560</td>
<td>1.150</td>
<td>2-3/4</td>
<td>40</td>
<td>21</td>
<td>85</td>
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<tr>
<td>350 0686</td>
<td>1-1/2</td>
<td>2-1/2</td>
<td>.040</td>
<td>1.910</td>
<td>1.410</td>
<td>3</td>
<td>40</td>
<td>20</td>
<td>80</td>
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<tr>
<td>350 0763</td>
<td>2</td>
<td>2-1/2</td>
<td>.043</td>
<td>2.450</td>
<td>1.955</td>
<td>4-1/4</td>
<td>40</td>
<td>16</td>
<td>65</td>
</tr>
</tbody>
</table>

*’E’ dimension to be specified at time of order. All lengths will be supplied with ‘B’ dimension cuffs. The minimum overall length for Contef with a cuff at each end is 6”; shorter overall lengths are possible when only one cuff is needed. All pressures are calculated and not based on actual testing. BOLD indicates the critical dimension for fittings application.*

### CONTEF With Wire

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>A ID (IN.)</th>
<th>B NOM. (IN.)</th>
<th>C NOM. (IN.)</th>
<th>D REF. (IN.)</th>
<th>F NOM. (IN.)</th>
<th>BEND RADIUS (IN.)</th>
<th>MAX LENGTH (FT.)</th>
<th>WORKING PSI AT 72°F</th>
<th>BURST PSI AT 72°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>352 0076</td>
<td>1/4</td>
<td>3/4</td>
<td>.015</td>
<td>.320</td>
<td>.181</td>
<td>1/2</td>
<td>12</td>
<td>58</td>
<td>234</td>
</tr>
<tr>
<td>352 0153</td>
<td>5/16</td>
<td>1</td>
<td>.020</td>
<td>.414</td>
<td>.273</td>
<td>3/4</td>
<td>12</td>
<td>62</td>
<td>250</td>
</tr>
<tr>
<td>352 0230</td>
<td>3/8</td>
<td>1</td>
<td>.020</td>
<td>.450</td>
<td>.303</td>
<td>1-3/4</td>
<td>12</td>
<td>52</td>
<td>208</td>
</tr>
<tr>
<td>352 0307</td>
<td>1/2</td>
<td>1</td>
<td>.020</td>
<td>.590</td>
<td>.425</td>
<td>1-1/4</td>
<td>20</td>
<td>39</td>
<td>156</td>
</tr>
<tr>
<td>352 0461</td>
<td>3/4</td>
<td>1-1/2</td>
<td>.023</td>
<td>.780</td>
<td>.608</td>
<td>1-3/4</td>
<td>20</td>
<td>32</td>
<td>130</td>
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<tr>
<td>352 0538</td>
<td>1</td>
<td>2</td>
<td>.030</td>
<td>1.100</td>
<td>.849</td>
<td>2-1/4</td>
<td>20</td>
<td>29</td>
<td>117</td>
</tr>
</tbody>
</table>

*’E’ dimension to be specified at time of order. All lengths will be supplied with ‘B’ dimension cuffs. The minimum overall length for Contef With Wire with a cuff at each end is 6”; shorter overall lengths are possible when only one cuff is needed. All pressures are calculated and not based on actual testing. BOLD indicates the critical dimension for fittings application.*
**Corrugated FEP Tubing**

- Made from FEP fluoropolymer tubing
- Corrugations allow a nearly zero bend radius — easily flexed
- Can be extended or compressed without affecting the tube's I.D.
- Made without plasticizers which can leach into critical streams
- Made from FDA compliant materials
- Has all the chemical and electrical properties of straight-walled FEP tubing
- May be overbraided with Kevlar® for higher pressures^)

**Notes**

Vacuum Service at 72°F: 29.9 in./Hg.
Bend Diameter at 72°F: 1/2 of tubing I.D.

Optimal flow is achieved and turbulence minimized by passing fluids through CORRTEF in the direction of the corrugation angles (as illustrated).

CORRTEF is heat sealable, and the cuffs (straight ends) are made to accept standard barbed fittings. The end may be flared or expanded to permit shrink-tight connections. CORRTEF is manufactured in an industrial atmosphere and should be properly sterilized for clean-flow applications. For optimal cleaning of CORRTEF, the tube should be stretched to its maximum length and held vertically (direction of flow: down). Due to the annular corrugations, it may not be possible to remove all traces of particulate from CORRTEF, even under optimal cleaning conditions.

^Overbraiding with Kevlar will permit a minimum increase of six times the listed pressures. Kevlar overbraiding is available for sizes up to 7/8” I.D. — call for details.

**Physical Properties**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PART NO.</td>
<td>A MAX. ID (IN.)</td>
<td>B CUFF LENGTH NOM. (IN.)</td>
</tr>
<tr>
<td>340 0075</td>
<td>1/4</td>
<td>3/4 .015</td>
</tr>
<tr>
<td>340 0152</td>
<td>3/8</td>
<td>1 .020</td>
</tr>
<tr>
<td>340 0229</td>
<td>1/2</td>
<td>1 .025</td>
</tr>
<tr>
<td>340 0306</td>
<td>5/8</td>
<td>1 .025</td>
</tr>
<tr>
<td>340 0383</td>
<td>3/4</td>
<td>1-1/2 .030</td>
</tr>
<tr>
<td>340 0460</td>
<td>7/8</td>
<td>1-1/2 .030</td>
</tr>
<tr>
<td>340 0537</td>
<td>1</td>
<td>2 .035</td>
</tr>
<tr>
<td>340 0691</td>
<td>1-1/2</td>
<td>2 .035</td>
</tr>
<tr>
<td>340 0768</td>
<td>2</td>
<td>2 .040</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D CORRUGATION OD REF. (IN.)</th>
<th>WORKING PSI AT 72°F</th>
<th>BURST PSI AT 72°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>62</td>
<td>248</td>
</tr>
<tr>
<td>5/8</td>
<td>50</td>
<td>200</td>
</tr>
<tr>
<td>3/4</td>
<td>42</td>
<td>168</td>
</tr>
<tr>
<td>1</td>
<td>15</td>
<td>18</td>
</tr>
<tr>
<td>1-1/2</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>1-7/16</td>
<td>13-1/16</td>
<td>15</td>
</tr>
<tr>
<td>1-13/16</td>
<td>2-5/8</td>
<td>12</td>
</tr>
</tbody>
</table>

† Specify ’E’ dimension at order time. Maximum overall available length: 12 ft. (including cuffs). The minimum overall length for Corrtef with a cuff at each end is 6”; shorter overall lengths are possible when only one cuff is needed.
*Workable I.D. length of the cuff (straight ends). All lengths supplied with ‘B’ dimension cuffs. All pressures are calculated and not based on actual testing. **Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application. ††Temperatures are for standard extruded (non-corrugated) tubing.

---

**Recommended Fittings & Clamps**

- Thermobarb® barbed fittings
- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

---

**Custom Services**

- Cut
- Overbraid
- Size
- And More

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---

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- Steve Kuhns
  - Natl. Sales Mgr.
  - Plastics/Owner
  - 7 years

- Ed Decker
  - Warehouse/Owner
  - 1 year

- Josh Ream
  - Silicone Manufacturing Supv./Owner
  - 20 years

---

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PFA Compression Fittings

- PFA body made from virgin, high purity materials
- Ideally suited for corrosive environments and chemical applications
- Less surface particulate resulting in cleaner operation
- Easy to disconnect and reuse
- Excellent lock and seal ability
- Numerous configurations available

Installation Instructions:
1. Cut tubing (A) cleanly at 90°.
2. Push tubing through small end of nut (B), small end of gripper (C), large end of ferrule (D), and seat tubing end into fitting body as far as it will go (E).
3. Thread nut onto body and finger tighten while assuring that tubing remains seated in bottom of fitting. To complete the installation, tighten nut with a wrench at least one additional turn. Avoid overtightening.

Size Recommendations:
See chart at right; these sizes represent the only fluoropolymer tubing dimensions recommended for use with Pureloc fittings.

<table>
<thead>
<tr>
<th>Fitting Size</th>
<th>Recommended Tubing Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>1/8&quot; O.D. x 1/16&quot; I.D.</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>1/4&quot; O.D. x 5/32&quot; I.D.</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>3/8&quot; O.D. x 1/4&quot; I.D.</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>1/2&quot; O.D. x 3/8&quot; I.D.</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>3/4&quot; O.D. x 5/8&quot; I.D.</td>
</tr>
</tbody>
</table>

Notes
With a fitting body made from virgin, high purity PFA fluoropolymer, PURELOC is ideal for ultra-pure fluid applications where contamination-free systems are used. This includes semiconductor manufacturing, food and beverage processing, medical and biomedical, laboratory, chromatography equipment, and the chemical industries.

The gripper coupled with the precision-made ferrule provides excellent leak-tight connections and prevents tubing blow-out.

Materials of Construction:
Wetted: PFA body, PTFE ferrule
Non-wetted: PFA nut, titanate filled ETFE gripper

Pressure Ranges:
125 PSIG (8.6 bar); see chart below

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Did you know ... ?
We acknowledge and confirm every order to ensure accuracy.

Shaleem Chohan
Silicone Manufacturing/Owner
3 years

Somarly Hem
Silicone Molding/Owner
1 year

Vi Sal Thach
Silicone Manufacturing/Owner
2 years

Steven Murphy
Eng. Process Coordinator/Owner
1 year

Mabory Tav
Silicone Molding/Owner
8 years

Marinet Thomas
Silicone Manufacturing/Owner
1 year

ESOP Employee Owned for Your Benefit

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continued on next page
**Pureloc®**

**PFA Compression Fittings**

- **Male Adapter**
  - **PART NO.**
  - **TUBE OD (IN.) x NPT**
  - 532 0644  1/8 x 1/8
  - 532 0672  1/8 x 1/4
  - 532 0700  1/4 x 1/8
  - 532 0728  1/4 x 1/4
  - 532 0756  1/4 x 3/8
  - 532 0784  1/4 x 1/2
  - 532 0812  3/8 x 1/8
  - 532 0833  3/8 x 1/4
  - 532 0868  3/8 x 3/8
  - 532 0896  3/8 x 1/2
  - 532 0924  1/2 x 1/4
  - 532 0952  1/2 x 3/8
  - 532 0980  1/2 x 1/2
  - 532 1008  1/2 x 3/4
  - 532 1036  3/4 x 1/2
  - 532 1064  3/4 x 3/4

- **Female Adapter**
  - **PART NO.**
  - **TUBE OD (IN.) x FNPT**
  - 532 0028  1/8 x 1/8
  - 532 0056  1/8 x 1/4
  - 532 0084  1/4 x 1/8
  - 532 0112  1/4 x 1/4
  - 532 0140  1/4 x 3/8
  - 532 0168  1/4 x 1/2
  - 532 0224  3/8 x 1/4
  - 532 0252  3/8 x 3/8
  - 532 0280  3/8 x 1/2
  - 532 0308  1/2 x 1/4
  - 532 0336  1/2 x 3/8
  - 532 0364  1/2 x 1/2
  - 532 0392  1/2 x 3/4
  - 532 0420  3/4 x 1/2
  - 532 0448  3/4 x 3/4

- **Male 90° Elbow**
  - **PART NO.**
  - **TUBE OD (IN.) x NPT**
  - 532 0800  1/8 x 1/8
  - 532 0806  1/8 x 1/4
  - 532 0812  1/4 x 1/8
  - 532 0818  1/4 x 1/4
  - 532 0824  1/4 x 3/8
  - 532 0830  1/4 x 1/2
  - 532 0836  3/8 x 1/8
  - 532 0842  3/8 x 1/4
  - 532 0848  3/8 x 3/8
  - 532 0854  3/8 x 1/2
  - 532 0860  3/8 x 3/4
  - 532 0866  1/2 x 1/4
  - 532 0872  1/2 x 3/8
  - 532 0878  1/2 x 1/2
  - 532 0884  1/2 x 3/4
  - 532 0890  3/4 x 1/2
  - 532 0906  3/4 x 3/4

- **Female 90° Elbow**
  - **PART NO.**
  - **TUBE OD (IN.) x FNPT**
  - 532 1004  1/8 x 1/8
  - 532 1028  1/8 x 1/4
  - 532 1052  1/4 x 1/8
  - 532 1076  1/4 x 1/4
  - 532 1090  1/4 x 3/8
  - 532 1114  1/4 x 1/2
  - 532 1138  3/8 x 1/8
  - 532 1162  3/8 x 1/4
  - 532 1186  3/8 x 3/8
  - 532 1210  3/8 x 1/2
  - 532 1234  3/8 x 3/4
  - 532 1258  1/2 x 1/4
  - 532 1282  1/2 x 3/8
  - 532 1306  1/2 x 1/2
  - 532 1330  1/2 x 3/4
  - 532 1354  3/4 x 1/2
  - 532 1378  3/4 x 3/4

- **Union 90° Elbow**
  - **PART NO.**
  - **TUBE OD (IN.) x TUBE OD (IN.)**
  - 532 1404  1/8 x 1/8
  - 532 1428  1/8 x 1/4
  - 532 1452  1/4 x 1/8
  - 532 1476  1/4 x 1/4
  - 532 1495  3/8 x 1/8
  - 532 1514  3/8 x 1/4
  - 532 1538  3/8 x 3/8
  - 532 1562  3/8 x 1/2
  - 532 1586  3/8 x 3/4
  - 532 1610  1/2 x 1/4
  - 532 1634  1/2 x 3/8
  - 532 1658  1/2 x 1/2
  - 532 1682  1/2 x 3/4
  - 532 1706  1/2 x 1/2
  - 532 1730  1/2 x 3/4
  - 532 1754  3/4 x 1/2
  - 532 1778  3/4 x 3/4

- **Reducing 90° Elbow**
  - **PART NO.**
  - **TUBE OD (IN.)**
  - 532 2604  1/8 x 1/8
  - 532 2660  1/4 x 1/4
  - 532 2688  3/8 x 3/8
  - 532 2716  3/8 x 1/2
  - 532 2744  3/8 x 3/4
  - 532 2772  1/2 x 1/4
  - 532 2828  1/2 x 1/2

- **Nut Replacement Kit**
  - **PART NO.**
  - **TUBE OD (IN.)**
  - 532 6860  1/8
  - 532 7056  1/4
  - 532 7252  3/8
  - 532 7448  1/2
  - 532 7644  3/4

---

**More NewAge Industries’ Owners**

**Did you know . . . ?**

90% of RFQ’s (Requests for Quotation) are formally quoted the same day.

**ESOP** Employees Owned for Your Benefit

- Jalisa Gonzalez
  - Engineering Project Technician/Owner
  - 3 years
- Marty Golin
  - Sales, Special Projects/Owner
  - 16 years
- Anthony Nghiem
  - Quality Inspector/Owner
  - 3 years
### Male Branch Tee

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TUBE OD (IN.) x NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>532 4697</td>
<td>1/4 x 1/8</td>
</tr>
<tr>
<td>532 4732</td>
<td>1/4 x 1/4</td>
</tr>
<tr>
<td>532 4760</td>
<td>3/8 x 1/8</td>
</tr>
<tr>
<td>532 4788</td>
<td>3/8 x 1/4</td>
</tr>
<tr>
<td>532 4816</td>
<td>3/8 x 3/8</td>
</tr>
<tr>
<td>532 4844</td>
<td>3/8 x 1/2</td>
</tr>
<tr>
<td>532 4872</td>
<td>1/2 x 1/4</td>
</tr>
<tr>
<td>532 4900</td>
<td>1/2 x 3/8</td>
</tr>
<tr>
<td>532 4928</td>
<td>1/2 x 1/2</td>
</tr>
<tr>
<td>532 4956</td>
<td>3/4 x 3/4</td>
</tr>
</tbody>
</table>

### Male Run Tee

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TUBE OD (IN.) x NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>532 5656</td>
<td>1/4 x 1/8</td>
</tr>
<tr>
<td>532 5684</td>
<td>1/4 x 1/4</td>
</tr>
<tr>
<td>532 5796</td>
<td>3/8 x 1/4</td>
</tr>
<tr>
<td>532 5880</td>
<td>1/2 x 1/4</td>
</tr>
<tr>
<td>532 5936</td>
<td>1/2 x 1/2</td>
</tr>
<tr>
<td>532 5964</td>
<td>3/4 x 3/4</td>
</tr>
</tbody>
</table>

### Union Tee

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TUBE OD (IN.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>532 6132</td>
<td>1/8</td>
</tr>
<tr>
<td>532 6160</td>
<td>1/4</td>
</tr>
<tr>
<td>532 6188</td>
<td>3/8</td>
</tr>
<tr>
<td>532 6216</td>
<td>1/2</td>
</tr>
<tr>
<td>532 6244</td>
<td>3/4</td>
</tr>
</tbody>
</table>

### Union Connector

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TUBE OD (IN.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>532 1484</td>
<td>1/8</td>
</tr>
<tr>
<td>532 1512</td>
<td>1/4</td>
</tr>
<tr>
<td>532 1540</td>
<td>3/8</td>
</tr>
<tr>
<td>532 1568</td>
<td>1/2</td>
</tr>
<tr>
<td>532 1596</td>
<td>3/4</td>
</tr>
</tbody>
</table>

### Reducing Union Connector

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TUBE OD (IN.) x NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>532 1764</td>
<td>1/8 x 1/4</td>
</tr>
<tr>
<td>532 1820</td>
<td>1/4 x 3/8</td>
</tr>
<tr>
<td>532 1848</td>
<td>1/4 x 1/2</td>
</tr>
<tr>
<td>532 1876</td>
<td>3/8 x 1/2</td>
</tr>
<tr>
<td>532 1904</td>
<td>1/2 x 3/4</td>
</tr>
</tbody>
</table>

### Bulkhead Union

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TUBE OD (IN.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>532 2072</td>
<td>1/8</td>
</tr>
<tr>
<td>532 2100</td>
<td>1/4</td>
</tr>
<tr>
<td>532 2128</td>
<td>3/8</td>
</tr>
<tr>
<td>532 2156</td>
<td>1/2</td>
</tr>
<tr>
<td>532 2184</td>
<td>3/4</td>
</tr>
</tbody>
</table>

---

**More NewAge Industries’ Owners**

**Did you know . . . ?**

We’re **solar powered**. 4,000 solar panels on our building’s rooftop provide one megawatt of electricity annually.
More NewAge Industries Products

Tubing & Hose

- PVC
- Polyurethane
- Silicone
- Fluoropolymer
- Nylon
- Polyethylene
- Polypropylene
- TPR
- Viton™
- Latex
- Hytrel®

Fittings & Clamps for Fluoropolymer

- **Pureloc®** - PFA compression fittings. Stock sizes for 1/8” to 3/4” O.D. in 13 styles. Made from chemically inert fluoropolymer.
- **Thermobarb® Plastic** - Precision molded barbed fittings in nylon-6, high density polyethylene, PVDF, polypropylene, reinforced nylon, or reinforced polypropylene. Sizes for 1/8” to 1” I.D. tubing in 15 styles.
- **Thermobarb® Brass** - Durable brass barbed fittings. Sizes for 1/8” to 1” I.D. tubing in 10 styles.
- **Oetiker® Ear Type Clamps** - Stainless steel or zinc-plated carbon steel clamps with a unique breathable design. 35 sizes from 5/32” to 1-9/16” in 3 styles.
- **Kwik Clamp™** - Nylon double-bond hose clamps. 31 sizes from 1/4” to 4-1/4” nominal O.D.

Worm Gear Clamps - Stainless steel worm screw clamps. 28 sizes from 3/8” to 6” in 6 styles.

Tubing & Hose Cutting Tools

Custom Services

- Cut
- Size
- Color
- Coil
- Over-braid
- Heat Form
- Hot Bond®
- Assemblies
- Hardness
- More

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High Purity Tubing & Hose

Sanitary tubing, hose, fittings, assemblies, and molded components from our AdvantaPure division meet the needs of the pharmaceutical, biotech, food and beverage, dairy, cosmetics and fragrances, and chemical industries, as well as other sanitary applications. AdvantaPure products are available through a network of select distributors. [www.advantapure.com](http://www.advantapure.com)

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