

Versilon® TLCT/WTLCT/SFTL Hose

SMOOTH BORE FLUOROPOLYMER HOSE

Saint-Gobain's Versilon® TLCT hose is constructed with a white FEP inner core and reinforced with multiple polyester plycords and EPDM rubber. The kink-resistant EPDM reinforced design delivers extended service life and durability. This construction is ideal for use in a wide range of demanding applications.

The FEP fluoropolymer liners used in TLCT have been the top choice in the process industry for many years. The inner tube's excellent chemical resistance minimizes the corrosive effects of transferred media. TLCT delivers exceptional flow rates due to the ultra-smooth inner bore surface, preventing virtually all material entrapment and bacteria build-up.

Typical Applications

- Rail car unloading
- Chemical trailer loading/unloading
- Portable pumps
- Isolation dampeners
- CIP
- Load cell applicators
- Caustic cleaning

Features and Benefits

- Unexcelled chemical resistance
- Full vacuum rated
- Durable, kink resistant, with no external wire reinforcement to potentially fray
- Easy to clean non-stick smooth tube for assured sterility
- Can be cleaned with steam, caustics, solvents or other cleaning agents
- Resistant to chemicals, ozone and abrasion

Regulatory Compliance

- Inner Tube: The FEP inner tube extracts meet the requirements of USP Plastic Class VI. The FEP inner tube material meets the requirements of FDA 21 CFR 177.1550*
- Hose Assembly: 3-A Sanitary Standard 62-02

*Use restrictions and limitations may apply.



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| Part Number | Inside Diameter | | Outside Diameter | | Maximum Working Pressure | | Minimum Burst Pressure | | Minimum Bend Radius | | Vacuum Hg @ 70°F | | Weight | |
|-------------|-----------------|-------|------------------|-------|--------------------------|-------|------------------------|-------|---------------------|--------|------------------|------|---------|--------|
| | (in) | (mm) | (in) | (mm) | (psi) | (MPa) | (psi) | (MPa) | (in) | (mm) | (in) | (mm) | (lb/ft) | (kg/m) |
| 3808TLCTO | 1/2 | 12.7 | 1.00 | 25.4 | 500 | 3.45 | 2,000 | 13.79 | 3.00 | 76.2 | 29.9 | 760 | 0.42 | 0.63 |
| 3812TLCTO | 3/4 | 19.1 | 1.30 | 33.0 | 500 | 3.45 | 2,000 | 13.79 | 4.50 | 114.3 | 29.9 | 760 | 0.59 | 0.88 |
| 3816TLCTO | 1 | 25.4 | 1.56 | 39.6 | 450 | 3.10 | 1,800 | 12.41 | 6.00 | 152.4 | 29.9 | 760 | 0.75 | 1.12 |
| 3820TLCTO | 1-1/4 | 31.8 | 1.78 | 45.2 | 320 | 2.21 | 1,400 | 9.65 | 9.00 | 228.6 | 29.9 | 760 | 0.91 | 1.35 |
| 3824TLCTO | 1-1/2 | 38.1 | 2.13 | 54.1 | 300 | 2.07 | 1,200 | 8.27 | 11.00 | 279.4 | 29.9 | 760 | 1.21 | 1.80 |
| 3832TLCTO | 2 | 50.8 | 2.68 | 68.1 | 250 | 1.72 | 1,000 | 6.89 | 13.50 | 342.9 | 29.9 | 760 | 1.70 | 2.53 |
| 3840TLCTO | 2-1/2 | 63.5 | 3.16 | 80.3 | 200 | 1.38 | 800 | 5.52 | 20.00 | 508.0 | 29.9 | 760 | 2.00 | 2.98 |
| 3848TLCTO | 3 | 76.2 | 3.69 | 93.7 | 150 | 1.03 | 600 | 4.14 | 22.00 | 558.8 | 29.9 | 760 | 2.52 | 3.75 |
| 3864TLCTO | 4 | 101.6 | 4.69 | 119.1 | 150 | 1.03 | 600 | 4.14 | 40.00 | 1016.0 | 29.9 | 760 | 3.79 | 5.64 |

⚠ Important:

Burst pressure ratings at ambient 70°F (21°C). See applicable notes below on vacuum/pressure ratings at temperatures other than ambient.

Working Pressure is given at 70°F; decrease working pressure 1% for every 2°F above 212°F.

Vacuum Rating is given at 70°F; decrease vacuum rating 1% for every 2°F above 212°F. For 1-1/4" and larger sizes, vacuum rating decreases when installed less than 2X minimum bend radius.

Flare-Thru fittings are pressure rated only. Not rated for vacuum service.

Extended Service Life Tip: Saint-Gobain suggests using full-length anti-kink armor casing or at least 16" to 24" long anti-kink cuffs at each fitting end to help reduce the strain on the crimp collar and fittings in high load installations. Prolonged service at elevated temperatures will reduce total service life.

NOTE: Weights and outside diameter dimensions are nominal. Data given is for hose only. End fitting vs. hose pressure limitations must be considered and the lower of the two ratings must be used on assemblies.

Construction

| | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------------------|-----------------|--------|-----------|-----------|---------|---------|-----------------|--------|-----------|--------|-----|----|------|----|-----|--------|------|----|-----|
| Inner Tube: | FEP | | | | | | | | | | | | | | | | | | | | |
| Cover: | EPDM rubber | | | | | | | | | | | | | | | | | | | | |
| Reinforcement: | Multiple polyester pycord and EPDM rubber Double helix, high tensile strength carbon steel wire | | | | | | | | | | | | | | | | | | | | |
| Color: | Green with a white layline in green lettering or white with a gray layline in white lettering (white cover designated WTLCT) TLCT covers can be color-coded to identify specific process lines or trace departments Special colors available with minimum order quantities | | | | | | | | | | | | | | | | | | | | |
| Temperature Rating: | -40°F to +350°F -40°C to +177°C | | | | | | | | | | | | | | | | | | | | |
| Maximum Length: | <table border="1"> <tr> <td>1/2"</td> <td>100'</td> <td>1-1/2"</td> <td>100'</td> </tr> <tr> <td>5/8"</td> <td>100'</td> <td>2"</td> <td>100'</td> </tr> <tr> <td>3/4"</td> <td>100'</td> <td>2-1/2"</td> <td>60'</td> </tr> <tr> <td>1"</td> <td>100'</td> <td>3"</td> <td>60'</td> </tr> <tr> <td>1-1/4"</td> <td>100'</td> <td>4"</td> <td>30'</td> </tr> </table> | 1/2" | 100' | 1-1/2" | 100' | 5/8" | 100' | 2" | 100' | 3/4" | 100' | 2-1/2" | 60' | 1" | 100' | 3" | 60' | 1-1/4" | 100' | 4" | 30' |
| 1/2" | 100' | 1-1/2" | 100' | | | | | | | | | | | | | | | | | | |
| 5/8" | 100' | 2" | 100' | | | | | | | | | | | | | | | | | | |
| 3/4" | 100' | 2-1/2" | 60' | | | | | | | | | | | | | | | | | | |
| 1" | 100' | 3" | 60' | | | | | | | | | | | | | | | | | | |
| 1-1/4" | 100' | 4" | 30' | | | | | | | | | | | | | | | | | | |
| Minimum overall length of hose assemblies with anti-kink casing: | <table border="1"> <tr> <td>1/2" & 5/8"</td> <td>24" OAL</td> <td>2"</td> <td>48" OAL**</td> </tr> <tr> <td>3/4" & 1"</td> <td>36" OAL</td> <td>3" & 4"</td> <td>Consult factory</td> </tr> <tr> <td>1-1/2"</td> <td>36" OAL**</td> <td></td> <td></td> </tr> </table> | 1/2" & 5/8" | 24" OAL | 2" | 48" OAL** | 3/4" & 1" | 36" OAL | 3" & 4" | Consult factory | 1-1/2" | 36" OAL** | | | | | | | | | | |
| 1/2" & 5/8" | 24" OAL | 2" | 48" OAL** | | | | | | | | | | | | | | | | | | |
| 3/4" & 1" | 36" OAL | 3" & 4" | Consult factory | | | | | | | | | | | | | | | | | | |
| 1-1/2" | 36" OAL** | | | | | | | | | | | | | | | | | | | | |
| Minimum length of flare-thru flange x flange assemblies: | <table border="1"> <tr> <td>3/4", 1" and 1-1/2"</td> <td>11"</td> </tr> <tr> <td>2"</td> <td>12"</td> </tr> </table> | 3/4", 1" and 1-1/2" | 11" | 2" | 12" | | | | | | | | | | | | | | | | |
| 3/4", 1" and 1-1/2" | 11" | | | | | | | | | | | | | | | | | | | | |
| 2" | 12" | | | | | | | | | | | | | | | | | | | | |

* Special order, consult factory.

Consult factory for maximum length by size for flare-thru fittings.

** With same size sanitary clamped ends shorter lengths are possible, consult factory.

Fitting Options

Versilon® Crimp Style Fittings

- Over 40 styles of stocked crimp-style fittings in a wide range of materials
- Standard: 316L stainless steel (wetted surfaces)

Versilon® Flare-Thru Fittings

- Available in 150 lb. swivel style flanges, female cam and groove (locking and non-locking swivel style, 316 stainless steel body)
- Up to 2" only

Common Media

- Hydrofluoric acid
- Hydrochloric acid
- Sulfuric acid
- Paint

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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