

# Versilon™ TLCTCO Hose

## Smooth Bore Fluoropolymer Convuluted Outer Cover Hose

### Ideal for Process Applications

With increased flexibility, easily identified by a reduced force-to-bend and small minimum bend radius, Saint-Gobain's Versilon TLCTCO will quickly demonstrate reasons to include this hose construction in your demanding process applications.

### Flexibility

While achieving flexibility in hose assemblies is always a goal in hose design considerations, pressure limitations, long-term service life, hose durability and ease of handling must also be considered. TLCTCO meets these objectives and is ideally suited for many critical process applications in the chemical, pharmaceutical and industrial marketplace.

### Purity

High purity, ultra smooth FEP fluoropolymer liners used in the manufacture of TLCT series hose have been leading the process industry for many years. The TLCTCO hose series is an improvement in flexibility of a proven, reliable, industry leading product line that will add increased productivity, ease of handling, better value and increased service.

### Features and Benefits

- Reduced force-to-bend
- Improved bend radius
- Ultra-flexible, easy to handle, kink resistant
- Smooth ID when bent
- High pressure rating
- Sterilizable, autoclavable
- Non-aging liner
- Full vacuum rated
- Resistant to chemicals, ozone and abrasion

### Typical Applications

- Load cells
- Skid transfer
- Pumping stations/portable pumps
- Vessel or tank transfer
- Rail car loading/unloading
- Transfer lines
- Chemical process lines

### Regulatory Compliance

- US Pharmacopeia Class VI
- 3-A Sanitary Standard 62-02

## TLCTCO Hose Specifications

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)
3812TLCTCO	3/4	19.1	1.30	33.0	400	2.76	1,600	11.03	2.50	63.5	29.9	760	0.63	0.94
3816TLCTCO	1	25.4	1.56	39.6	350	2.41	1,400	9.65	3.75	95.3	29.9	760	0.79	1.18
3820TLCTCO	1-1/4	31.8	1.78	45.2	320	2.21	1,280	8.83	7.00	177.8	29.9	760	0.93	1.38
3824TLCTCO	1-1/2	38.1	2.13	54.1	300	2.07	1,200	8.27	7.00	177.8	29.9	760	1.16	1.73
3832TLCTCO	2	50.8	2.68	68.1	250	1.72	1,000	6.89	8.75	222.3	29.9	760	1.61	2.40

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.

### ! 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.

## Construction

Inner Tube:	FEP
Cover:	Convuluted EPDM rubber
Reinforcement:	Multiple polyester plycord and EPDM rubber Double helix, high tensile strength carbon steel wire
Color:	Green with a white layline in green lettering
Temperature Rating:	-40°F to +350°F -40°C to +177°C
Maximum Length:	100 feet (all sizes)

## 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)

## Common Media

- Hydrofluoric acid
- Hydrochloric acid
- Sulfuric acid
- Paint

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### Saint-Gobain Performance Plastics

1600 Cottontail Lane  
Somerset, NJ 08873

1-800-435-3992  
Tel: (732) 652-0910  
Fax: (732) 764-3871

www.processsystems.saint-gobain.com



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