

TLCT/WTLCT/SFTL Series

Chemfluor® FEP Fluoropolymer Smooth Inner Tube • EPDM Rubber Cover

applications	common media	industry approvals & compliances
<ul style="list-style-type: none"> Rail car unloading Chemical trailer loading/unloading Portable pumps Isolation dampeners CIP Food and beverage Flavors Load cell applicators Caustic cleaning 	<ul style="list-style-type: none"> HF acid HCL H₂SO₄ Paint 	<ul style="list-style-type: none"> FDA approved per 21CFR177.1550 US Pharmacopeia Class VI 3-A Sanitary Standard 62-01



TLCT



WTLCT

features & 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

details

- color**
- Green or white standard (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 (see page 80)

construction

- Inner Tube:** Chemfluor® FEP
- Cover:** EPDM rubber
- Reinforcement:**
 - Multiple polyester plycord and EPDM rubber
 - Double helix, high tensile strength carbon steel wire

fittings

- Over 40 styles of stocked PermaSeal® crimp-style fittings
 - A wide range of materials available
 - Standard: 316L stainless steel (wetted surfaces)
- Flare-Thru fitting technology available
 - 150# swivel style flanges
 - Female cam and groove (swivel style, 316 stainless steel body)
 - Sanitary clamp Flare-Thru not available (see W.S.I.B., page 12)
 - Up to 2" only

engineering specifications

maximum assembly length TLCT/WTLCT

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 length of Flare-Thru flange x flange assemblies – TLCT Series

Nom. Hose Size	OAL
3/4"	11"
1"	11"
1-1/2"	11"
2"	12"

temperature rating

- 40°F to +350°F
- 40°C to +177°C

minimum overall length (OAL) of hose assemblies with anti-kink casing – TLCT

- 1/2" and 5/8" size – 24" OAL
- 3/4" and 1" sizes – 36" OAL
- 1-1/2" size – 36" OAL**
- 2" size – 48" OAL**
- 3" and 4" sizes – consult factory

* Special order; consult factory.

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

TLCT/WTLCT/SFTL Series hose specifications

Part Number	Nominal Hose Size	Inside Diameter		Outside Diameter		Maximum Working Pressure		Minimum Burst Pressure		Bend Radius		Vacuum Hg @ 70°F		Weight	
		in.	mm	in.	mm	PSI	Mpa	PSI	Mpa	in.	mm	in.	mm	lb./ft.	kg/m
2706WCS/BCS	3/8	3/8	9.2	0.61	14.9	1960	13.52	7840	54.07	1.75	42.9	29.9	760	0.15	0.22
2708WCS/BCS	1/2	1/2	12.3	0.75	18.4	1650	11.38	6600	45.52	1.75	42.9	29.9	760	0.19	0.28
2712WCS/BCS	3/4	3/4	18.4	1.13	27.7	1375	9.48	5500	37.93	2.25	55.1	29.9	760	0.30	0.45
2716WCS/BCS	1	1	24.5	1.31	32.1	1025	7.07	4100	28.28	2.75	67.4	29.9	760	0.40	0.60
2720WCS/BCS	1 1/4	1 1/4	30.6	1.60	39.2	790	5.45	3160	21.79	3.50	85.8	29.9	760	0.50	0.75
2724WCS/BCS	1 1/2	1 1/2	36.8	2.09	51.2	805	5.55	3220	22.21	3.75	91.9	29.9	760	0.63	0.94
2732WCS/BCS	2	2	49.0	2.50	61.3	675	4.66	2700	18.62	6.50	159.3	5	13	0.89	1.33

CRN available on all 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 @ 70°F; Decrease working pressure 1% for every 2°F above 212°F.

Vacuum Rating is given @ 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 min. 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 (see Hose Cover Options, pages 79–80) 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.