TS/TB Series
Smooth Chemfluor® PTFE Fluropolymer Smooth Inner Tube
304 Stainless Steel High Tensile Strength Braid

- Sanitary transfer
- Steam transfer core
- Bottle filling
- Gas analysis
- Hydraulic lines
- Extrusion presses
- Molding/Adhesive conveying
- Chemicals
- Steam
- Solvents
- Inks and dyes
- Paint
- Injectable materials
- Plastisol

FDA approved per 21CFR177.1550 (TS only)
US Pharmacopeia Class VI

- Greater wall thickness of Chemfluor® PTFE tube
- Up to 33% thicker than most competing products (tube wall: .040 minimum)
- Superior kink resistance
- Improved vacuum ratings
- Better damage resistance
- Neutral to taste, color and odor
- Non-stick, non-contaminating
- Cleans easily — steam, detergent or caustic
- Can be autoclaved
- Full ID sizes
- Greater flow rate per given size
- Less pressure drop through fitting area than hoses with tube size ID

TS Series construction
- Inner Tube: White Chemfluor® PTFE
- Reinforcement:
  - 304 stainless steel braid
  - 1-1/2" ID size double-braided for added kink resistance, higher pressure rating; working pressure based on minimum 4:1 safety factor; burst to suggested maximum working pressure

TB Series construction
- Inner Tube: Black Chemfluor® PTFE
- Electrostatic dissipating conductive version of TS Series
- Reinforcement:
  - 304 stainless steel braid
  - 1-1/2" ID size double-braid for added flexibility, higher pressure rating; working pressure based on minimum 4:1 safety factor; burst to suggested maximum working pressure

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

Average length
1/8” 50’
1/4” 125’
3/8” 75’
1/2” 125’
3/4” 40’
1” 30’
1-1/2” 30’

Minimum overall length of hose assemblies with anti-kink casing
1/4” size – 18” OAL
3/8” and 1/2” sizes – 24” OAL

Temperature rating
- -100°F to +450°F continuous;
  500°F intermittent
- -73°C to +232°C continuous;
  260°C intermittent

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inside Diameter</th>
<th>Outside Diameter</th>
<th>Maximum Working Pressure</th>
<th>Minimum Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Vacuum Hg @ 70°F</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>in.</td>
<td>mm</td>
<td>PSI</td>
<td>MPa</td>
<td>PSI</td>
<td>mm</td>
<td>lb./ft.</td>
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<td>3.2</td>
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<td>9.5</td>
<td>1/2</td>
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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 320°F.

Vacuum Rating is given @ 70°F; Decrease vacuum rating 1% for every 2°F above 330°F: 1-1/2" size (TD/TDB) vacuum rating decreases when installed less than 2X min. bend radius.

Extended Service Life Tip: All 3/4", 1", and 1-1/2" TS/TB/TD/TDB assemblies exposed to potential kinking and/or liner vacuum collapse.